Appendix B
Laboratory Reports
(On CD)

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/10/2010
Group Number: 1225031
SDG: DE031
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-026-SA5B-SS-0.0-0.5 Soil	6162774
SL-038-SA5B-SS-0.0-0.5 Soil	6162775
SL-039-SA5B-SS-0.0-0.5 Soil	6162776
SL-280-SA5B-SS-0.0-0.5 Soil	6162777
SL-281-SA5B-SS-0.0-0.5 Soil	6162778
SL-295-SA5B-SS-0.0-0.5 Soil	6162779
SL-296-SA5B-SS-0.0-0.5 Soil	6162780
SL-297-SA5B-SS-0.0-0.5 Soil	6162781
SL-308-SA5B-SS-0.0-0.5 Soil	6162782
SL-032-SA5B-SS-0.0-0.5 Soil	6162783
SL-282-SA5B-SS-0.0-0.5 Soil	6162784
SL-283-SA5B-SS-0.0-0.5 Soil	6162785
SL-292-SA5B-SS-0.0-0.5 Soil	6162786
SL-293-SA5B-SS-0.0-0.5 Soil	6162787
SL-231-SA5B-SS-0.0-0.5 Soil	6162788
SL-003-SA5B-SS-0.0-0.5 Soil	6162789
SL-230-SA5B-SS-0.0-0.5 Soil	6162790
SL-005-SA5B-SS-0.0-0.5 Soil	6162791
SL-004-SA5B-SS-0.0-0.5 Soil	6162792

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162774
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3101 SDG#: DE031-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162774
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3101 SDG#: DE031-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.86	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	1.3	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.4	19	1
10138	Fluoranthene	206-44-0	2.3		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	2.0		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	100	U	100	270	1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162774
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3101 SDG#: DE031-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and MCPP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.25		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.36	1
01363	p,p-DDT	50-29-3	2.0		0.071	0.36	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.093	U	0.093	0.36	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	1.2	U	1.2	1.2	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.52	U	0.52	0.52	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.49	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.87	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162774
LLI Group # 1225031
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Project Name: SSFL Area IV Collocated Soil Sampling

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E3101 SDG#: DE031-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.33	21.2	1
07914	Boron	7440-42-8	11.8		0.943	5.30	1
01650	Calcium	7440-70-2	3,600		6.50	21.2	1
01654	Iron	7439-89-6	18,400		4.99	21.2	1
01656	Lithium	7439-93-2	18.7		0.23	2.1	1
01657	Magnesium	7439-95-4	3,970		2.69	10.6	1
06958	Manganese	7439-96-5	248		0.0827	0.530	1
10145	Phosphorus	7723-14-0	367		0.594	10.6	1
01662	Potassium	7440-09-7	2,690		19.1	53.0	1
01667	Sodium	7440-23-5	227		39.5	106	1
07968	Strontium	7440-24-6	22.1		0.0657	0.530	1
06969	Tin	7440-31-5	1.99	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,130		0.782	2.06	2
10146	Zirconium	7440-67-7	1.75	J	0.890	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0918	J	0.0636	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.01		0.0636	0.424	2
06126	Barium	7440-39-3	85.6		0.114	0.424	2
06127	Beryllium	7440-41-7	0.452		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.0846	J	0.0382	0.106	2
06131	Chromium	7440-47-3	14.6		0.127	0.424	2
06132	Cobalt	7440-48-4	4.75		0.0212	0.106	2
06133	Copper	7440-50-8	7.52		0.0700	0.424	2
06135	Lead	7439-92-1	5.29		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.550		0.0530	0.106	2
06139	Nickel	7440-02-0	8.89		0.106	0.424	2
06141	Selenium	7782-49-2	0.115	J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0204	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.232		0.0318	0.106	2
06148	Vanadium	7440-62-2	29.0		0.0233	0.106	2
06149	Zinc	7440-66-6	50.3		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

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SL-026-SA5B-SS-0.0-0.5

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E3101 SDG#: DE031-01

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	458	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	4.58	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 19:08	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 08:38	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 17:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 20:30	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/18/2010 22:44	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162774
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3101 SDG#: DE031-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 07:19	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 21:07	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 16:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 12:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 12:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 12:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 12:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 19:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 16:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 03:01	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/22/2010 15:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102A	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-038-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162775
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3102 SDG#: DE031-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)pyrene	50-32-8	71	J	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	180	J	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	44	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Chrysene	218-01-9	140	J	18	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Fluoranthene	206-44-0	24	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	67	J	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-038-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162775
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3102 SDG#: DE031-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.90	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.82	J	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	8.3	J	6.6	20	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.6	20	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.81	J	0.73	1.8	1
10138	Pyrene	129-00-0	1.6	J	0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	220	U	220	270	1
10401	MCPP (Mecoprop)	93-65-2	99	U	99	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-038-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162775
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3102 SDG#: DE031-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and MCPP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.10	J	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.079	U	0.079	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.62	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.52	J	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-038-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162775
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3102 SDG#: DE031-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.52	21.9	1
07914	Boron	7440-42-8	12.1		0.976	5.48	1
01650	Calcium	7440-70-2	4,290		6.72	21.9	1
01654	Iron	7439-89-6	18,500		5.16	21.9	1
01656	Lithium	7439-93-2	17.3		0.24	2.2	1
01657	Magnesium	7439-95-4	3,980		2.79	11.0	1
06958	Manganese	7439-96-5	285		0.0855	0.548	1
10145	Phosphorus	7723-14-0	356		0.614	11.0	1
01662	Potassium	7440-09-7	2,550		19.7	54.8	1
01667	Sodium	7440-23-5	120		40.9	110	1
07968	Strontium	7440-24-6	26.2		0.0680	0.548	1
06969	Tin	7440-31-5	1.96	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,130		2.08	5.48	5
10146	Zirconium	7440-67-7	2.08	J	0.921	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.74		0.0633	0.422	2
06126	Barium	7440-39-3	84.2		0.114	0.422	2
06127	Beryllium	7440-41-7	0.451		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.142		0.0380	0.105	2
06131	Chromium	7440-47-3	19.6		0.127	0.422	2
06132	Cobalt	7440-48-4	5.20		0.0211	0.105	2
06133	Copper	7440-50-8	7.84		0.0696	0.422	2
06135	Lead	7439-92-1	5.12		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.762		0.0527	0.105	2
06139	Nickel	7440-02-0	10.7		0.105	0.422	2
06141	Selenium	7782-49-2	0.0991	J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0258	J	0.0127	0.105	2
06145	Thallium	7440-28-0	0.197		0.0316	0.105	2
06148	Vanadium	7440-62-2	32.7		0.0232	0.105	2
06149	Zinc	7440-66-6	55.1		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0153	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-038-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162775
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3102 SDG#: DE031-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	431	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.65	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 20:24	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/17/2010 18:27	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 17:48	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/05/2011 02:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/18/2010 23:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-038-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162775
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3102 SDG#: DE031-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 17:02	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 21:30	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 17:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 12:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 12:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 12:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 12:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 19:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 16:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 03:25	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/22/2010 16:56	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162776
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3103 SDG#: DE031-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-039-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162776
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3103 SDG#: DE031-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.80	J	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	J	6.6	20	1
10138	Chrysene	218-01-9	0.53	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	1.1	U	1.1	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	150	U	150	270	1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162776
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3103 SDG#: DE031-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA, MCPP, and 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.54		0.072	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.8	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.34	21.2	1
07914	Boron	7440-42-8	11.3		0.944	5.31	1
01650	Calcium	7440-70-2	3,830		6.50	21.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162776
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3103 SDG#: DE031-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	18,000		5.00	21.2	1
01656	Lithium	7439-93-2	19.4		0.23	2.1	1
01657	Magnesium	7439-95-4	3,860		2.70	10.6	1
06958	Manganese	7439-96-5	254		0.0828	0.531	1
10145	Phosphorus	7723-14-0	312		0.594	10.6	1
01662	Potassium	7440-09-7	2,680		19.1	53.1	1
01667	Sodium	7440-23-5	255		39.6	106	1
07968	Strontium	7440-24-6	19.8		0.0658	0.531	1
06969	Tin	7440-31-5	2.00	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,150		0.799	2.10	2
10146	Zirconium	7440-67-7	1.11	J	0.891	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0656	U	0.0656	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.58		0.0656	0.437	2
06126	Barium	7440-39-3	76.3		0.118	0.437	2
06127	Beryllium	7440-41-7	0.432		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.0740	J	0.0393	0.109	2
06131	Chromium	7440-47-3	12.3		0.131	0.437	2
06132	Cobalt	7440-48-4	4.30		0.0219	0.109	2
06133	Copper	7440-50-8	6.19		0.0721	0.437	2
06135	Lead	7439-92-1	4.59		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.292		0.0546	0.109	2
06139	Nickel	7440-02-0	7.17		0.109	0.437	2
06141	Selenium	7782-49-2	0.0987	J	0.0437	0.437	2
06142	Silver	7440-22-4	0.0182	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.202		0.0328	0.109	2
06148	Vanadium	7440-62-2	25.9		0.0240	0.109	2
06149	Zinc	7440-66-6	48.4		0.612	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0082	J	0.0029	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	442		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162776
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3103 SDG#: DE031-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.38	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 20:50	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 09:12	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 15:57	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 20:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/18/2010 23:21	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162776
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3103 SDG#: DE031-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 07:33	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 21:40	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 12:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 12:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 12:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 12:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 19:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 16:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 03:49	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/22/2010 17:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-280-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162777
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3104 SDG#: DE031-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-280-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162777
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3104 SDG#: DE031-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.46	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	9.4		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	6.8		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	12		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	4.6		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	7.1	J	6.6	20	1
10138	Chrysene	218-01-9	8.6		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.98	J	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.5	J	6.6	20	1
10138	Fluoranthene	206-44-0	8.9		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.8		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	J	0.73	1.8	1
10138	Pyrene	129-00-0	8.1		0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	330	U	330	330	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-280-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162777
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3104 SDG#: DE031-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.092	U	0.092	0.23	1
01363	Alpha BHC	319-84-6	0.047	U	0.047	0.23	1
01363	Beta BHC	319-85-7	0.084	U	0.084	0.23	1
01363	Gamma BHC - Lindane	58-89-9	0.047	U	0.047	0.23	1
01363	Chlordane	57-74-9	1.1	U	1.1	4.7	1
01363	p,p-DDD	72-54-8	0.092	U	0.092	0.47	1
01363	p,p-DDE	72-55-9	0.092	U	0.092	0.47	1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.47	1
01363	Delta BHC	319-86-8	0.050	U	0.050	0.23	1
01363	Dieldrin	60-57-1	0.092	U	0.092	0.47	1
01363	Endosulfan I	959-98-8	0.061	U	0.061	0.23	1
01363	Endosulfan II	33213-65-9	0.092	U	0.092	0.47	1
01363	Endosulfan Sulfate	1031-07-8	0.092	U	0.092	0.47	1
01363	Endrin	72-20-8	0.092	U	0.092	0.47	1
01363	Endrin Aldehyde	7421-93-4	0.092	U	0.092	0.47	1
01363	Endrin Ketone	53494-70-5	0.092	U	0.092	0.47	1
01363	Heptachlor	76-44-8	0.084	U	0.084	0.23	1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.23	1
01363	Methoxychlor	72-43-5	0.47	U	0.47	2.3	1
01363	Mirex	2385-85-5	0.13	U	0.13	0.47	1
01363	Toxaphene	8001-35-2	3.1	U	3.1	9.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.93	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.86	J	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.29	21.0	1
07914	Boron	7440-42-8	10.5		0.935	5.25	1
01650	Calcium	7440-70-2	3,790		6.44	21.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-280-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162777
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3104 SDG#: DE031-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	17,400		4.95	21.0	1
01656	Lithium	7439-93-2	18.6		0.23	2.1	1
01657	Magnesium	7439-95-4	3,640		2.67	10.5	1
06958	Manganese	7439-96-5	240		0.0820	0.525	1
10145	Phosphorus	7723-14-0	341		0.588	10.5	1
01662	Potassium	7440-09-7	2,670		18.9	52.5	1
01667	Sodium	7440-23-5	158		39.2	105	1
07968	Strontium	7440-24-6	16.7		0.0652	0.525	1
06969	Tin	7440-31-5	2.29	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,180		2.00	5.25	5
10146	Zirconium	7440-67-7	1.19	J	0.883	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0625	U	0.0625	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.57		0.0625	0.416	2
06126	Barium	7440-39-3	81.6		0.112	0.416	2
06127	Beryllium	7440-41-7	0.481		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.0747	J	0.0375	0.104	2
06131	Chromium	7440-47-3	15.2		0.125	0.416	2
06132	Cobalt	7440-48-4	4.70		0.0208	0.104	2
06133	Copper	7440-50-8	7.97		0.0687	0.416	2
06135	Lead	7439-92-1	5.43		0.0108	0.208	2
06138	Molybdenum	7439-98-7	0.882		0.0520	0.104	2
06139	Nickel	7440-02-0	8.35		0.104	0.416	2
06141	Selenium	7782-49-2	0.0670	J	0.0416	0.416	2
06142	Silver	7440-22-4	0.0144	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.259		0.0312	0.104	2
06148	Vanadium	7440-62-2	28.7		0.0229	0.104	2
06149	Zinc	7440-66-6	53.6		0.583	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0141	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	454		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-280-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162777
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3104 SDG#: DE031-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.02	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 21:15	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 09:48	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 18:16	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 21:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/18/2010 23:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-280-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162777
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3104 SDG#: DE031-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 17:06	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 21:44	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 12:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 12:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/21/2010 18:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 12:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 19:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 16:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10351351201B	12/19/2010 04:13	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/22/2010 17:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10351351201B	12/17/2010 14:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-281-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162778
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3105 SDG#: DE031-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-281-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162778
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3105 SDG#: DE031-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.4	U	7.4	18	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	18	10
10138	Anthracene	120-12-7	3.7	U	3.7	18	10
10138	Benzo(a)anthracene	56-55-3	7.4	U	7.4	18	10
10138	Benzo(a)pyrene	50-32-8	7.4	U	7.4	18	10
10138	Benzo(b)fluoranthene	205-99-2	7.4	U	7.4	18	10
10138	Benzo(g,h,i)perylene	191-24-2	7.4	U	7.4	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.4	U	7.4	18	10
10138	Chrysene	218-01-9	5.4	J	3.7	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.4	U	7.4	18	10
10138	Fluoranthene	206-44-0	11	J	7.4	18	10
10138	Fluorene	86-73-7	7.4	U	7.4	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.4	U	7.4	18	10
10138	1-Methylnaphthalene	90-12-0	7.4	U	7.4	18	10
10138	2-Methylnaphthalene	91-57-6	7.4	U	7.4	18	10
10138	Naphthalene	91-20-3	7.4	U	7.4	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.4	U	7.4	18	10
10138	Phenanthrene	85-01-8	8.7	J	7.4	18	10
10138	Pyrene	129-00-0	8.5	J	7.4	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.93	U	0.93	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-281-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162778
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3105 SDG#: DE031-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.081	U	0.081	0.38	1
01363	p,p-DDE	72-55-9	0.33	U	0.33	0.38	1
01363	p,p-DDT	50-29-3	0.80	U	0.80	0.80	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.10	U	0.10	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.54	U	0.54	0.54	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	7.2		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.9	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	1.3	J	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The surrogate data is outside the QC limits due to unresolvable matrix						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-281-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162778
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3105 SDG#: DE031-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	problems evident in the sample chromatogram.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,600		5.47	21.8	1
07914	Boron	7440-42-8	10.0		0.968	5.44	1
01650	Calcium	7440-70-2	5,210		6.67	21.8	1
01654	Iron	7439-89-6	18,100		5.13	21.8	1
01656	Lithium	7439-93-2	16.7		0.24	2.2	1
01657	Magnesium	7439-95-4	4,000		2.76	10.9	1
06958	Manganese	7439-96-5	240		0.0849	0.544	1
10145	Phosphorus	7723-14-0	451		0.609	10.9	1
01662	Potassium	7440-09-7	3,180		19.6	54.4	1
01667	Sodium	7440-23-5	144		40.6	109	1
07968	Strontium	7440-24-6	22.5		0.0675	0.544	1
06969	Tin	7440-31-5	1.69	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,170		0.827	2.18	2
10146	Zirconium	7440-67-7	0.989	J	0.914	5.44	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0666	U	0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.33		0.0666	0.444	2
06126	Barium	7440-39-3	72.3		0.120	0.444	2
06127	Beryllium	7440-41-7	0.306		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0683	J	0.0400	0.111	2
06131	Chromium	7440-47-3	11.7		0.133	0.444	2
06132	Cobalt	7440-48-4	3.94		0.0222	0.111	2
06133	Copper	7440-50-8	6.91		0.0733	0.444	2
06135	Lead	7439-92-1	4.25		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.263		0.0555	0.111	2
06139	Nickel	7440-02-0	6.73		0.111	0.444	2
06141	Selenium	7782-49-2	0.0620	J	0.0444	0.444	2
06142	Silver	7440-22-4	0.0158	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.189		0.0333	0.111	2
06148	Vanadium	7440-62-2	24.3		0.0244	0.111	2
06149	Zinc	7440-66-6	49.8		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0114	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	15.0	J	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-281-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162778
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3105 SDG#: DE031-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	466	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.41	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 21:40	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 10:21	Mark A Clark	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 18:43	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 13:18	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 21:39	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 00:35	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-281-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162778
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3105 SDG#: DE031-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 07:40	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 21:48	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 12:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 19:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 17:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 16:27	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/22/2010 17:47	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-295-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162779
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3106 SDG#: DE031-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-295-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162779
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3106 SDG#: DE031-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	8.9	J	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	12	J	6.6	20	1
10138	Chrysene	218-01-9	1.1	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	120		6.6	20	1
10138	Fluoranthene	206-44-0	1.4	J	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.88	J	0.73	1.8	1
10138	Pyrene	129-00-0	1.5	J	0.73	1.8	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	3.4		0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	190	U	190	270	1
10401	MCPP (Mecoprop)	93-65-2	250	U	250	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Sample Description: **SL-295-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162779
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3106 SDG#: DE031-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and MCPP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.40	U	0.40	0.40	1
01363	p,p-DDE	72-55-9	0.98	U	0.98	0.98	1
01363	p,p-DDT	50-29-3	8.8		0.36	1.9	5
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.40	U	0.40	0.40	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.086	U	0.086	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.41	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.60	J	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-295-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162779
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3106 SDG#: DE031-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.37	21.3	1
07914	Boron	7440-42-8	11.1		0.950	5.33	1
01650	Calcium	7440-70-2	3,970		6.54	21.3	1
01654	Iron	7439-89-6	18,900		5.03	21.3	1
01656	Lithium	7439-93-2	17.6		0.23	2.1	1
01657	Magnesium	7439-95-4	3,960		2.71	10.7	1
06958	Manganese	7439-96-5	258		0.0832	0.533	1
10145	Phosphorus	7723-14-0	309		0.597	10.7	1
01662	Potassium	7440-09-7	2,830		19.2	53.3	1
01667	Sodium	7440-23-5	144		39.8	107	1
07968	Strontium	7440-24-6	21.8		0.0661	0.533	1
06969	Tin	7440-31-5	2.00	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,170		0.811	2.13	2
10146	Zirconium	7440-67-7	1.28	J	0.896	5.33	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.310		0.0653	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.85		0.0653	0.435	2
06126	Barium	7440-39-3	98.3		0.118	0.435	2
06127	Beryllium	7440-41-7	0.489		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.104	J	0.0392	0.109	2
06131	Chromium	7440-47-3	16.6		0.131	0.435	2
06132	Cobalt	7440-48-4	5.91		0.0218	0.109	2
06133	Copper	7440-50-8	9.83		0.0718	0.435	2
06135	Lead	7439-92-1	7.92		0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.551		0.0544	0.109	2
06139	Nickel	7440-02-0	10.4		0.109	0.435	2
06141	Selenium	7782-49-2	0.0985	J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0277	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.251		0.0326	0.109	2
06148	Vanadium	7440-62-2	33.5		0.0239	0.109	2
06149	Zinc	7440-66-6	48.9		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0097	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-295-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162779
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3106 SDG#: DE031-06

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	469	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.53	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 22:06	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 10:54	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 19:11	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 21:53	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/10/2011 20:44	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 00:54	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-295-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162779
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3106 SDG#: DE031-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 07:44	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 21:52	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 17:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 12:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 19:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 17:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 18:04	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/22/2010 18:00	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-296-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162780
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3107 SDG#: DE031-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-296-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162780
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3107 SDG#: DE031-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.9	J	6.5	20	1
10138	Chrysene	218-01-9	0.47	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.5	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	1.9		0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	330	U	330	330	1
10401	MCPP (Mecoprop)	93-65-2	330		82	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-296-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162780
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3107 SDG#: DE031-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.37	1
01363	p,p-DDE	72-55-9	0.27	J	0.072	0.37	1
01363	p,p-DDT	50-29-3	2.0		0.072	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.16	U	0.16	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.59	J	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.27	20.9	1
07914	Boron	7440-42-8	10.2		0.932	5.24	1
01650	Calcium	7440-70-2	3,570		6.42	20.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-296-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162780
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3107 SDG#: DE031-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	17,800		4.93	20.9	1
01656	Lithium	7439-93-2	18.9		0.23	2.1	1
01657	Magnesium	7439-95-4	3,820		2.66	10.5	1
06958	Manganese	7439-96-5	243		0.0817	0.524	1
10145	Phosphorus	7723-14-0	387		0.587	10.5	1
01662	Potassium	7440-09-7	2,780		18.9	52.4	1
01667	Sodium	7440-23-5	192		39.1	105	1
07968	Strontium	7440-24-6	21.1		0.0649	0.524	1
06969	Tin	7440-31-5	2.07	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,150		0.812	2.14	2
10146	Zirconium	7440-67-7	1.54	J	0.880	5.24	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0635	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.07		0.0635	0.423	2
06126	Barium	7440-39-3	110		0.114	0.423	2
06127	Beryllium	7440-41-7	0.437		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.119		0.0381	0.106	2
06131	Chromium	7440-47-3	19.4		0.127	0.423	2
06132	Cobalt	7440-48-4	5.75		0.0212	0.106	2
06133	Copper	7440-50-8	11.7		0.0698	0.423	2
06135	Lead	7439-92-1	6.16		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.764		0.0529	0.106	2
06139	Nickel	7440-02-0	10.2		0.106	0.423	2
06141	Selenium	7782-49-2	0.232	J	0.0423	0.423	2
06142	Silver	7440-22-4	0.0218	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.258		0.0317	0.106	2
06148	Vanadium	7440-62-2	33.5		0.0233	0.106	2
06149	Zinc	7440-66-6	66.5		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.5		0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	475		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-296-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162780
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3107 SDG#: DE031-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.21	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 22:31	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 11:28	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 20:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 22:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 01:13	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-296-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162780
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3107 SDG#: DE031-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 08:39	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 21:55	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 17:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 12:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 12:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 12:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 12:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 19:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201A	12/17/2010 17:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 18:28	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 15:22	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201A	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-297-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162781
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3108 SDG#: DE031-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-297-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162781
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3108 SDG#: DE031-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.4	U	7.4	19	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	19	10
10138	Anthracene	120-12-7	3.7	U	3.7	19	10
10138	Benzo(a)anthracene	56-55-3	11	J	7.4	19	10
10138	Benzo(a)pyrene	50-32-8	13	J	7.4	19	10
10138	Benzo(b)fluoranthene	205-99-2	27		7.4	19	10
10138	Benzo(g,h,i)perylene	191-24-2	18	J	7.4	19	10
10138	Benzo(k)fluoranthene	207-08-9	38		7.4	19	10
10138	Chrysene	218-01-9	21		3.7	19	10
10138	Dibenz(a,h)anthracene	53-70-3	7.4	U	7.4	19	10
10138	Fluoranthene	206-44-0	17	J	7.4	19	10
10138	Fluorene	86-73-7	7.4	U	7.4	19	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.4	U	7.4	19	10
10138	1-Methylnaphthalene	90-12-0	7.4	U	7.4	19	10
10138	2-Methylnaphthalene	91-57-6	7.4	U	7.4	19	10
10138	Naphthalene	91-20-3	7.4	U	7.4	19	10
10138	N-Nitrosodimethylamine	62-75-9	7.4	U	7.4	19	10
10138	Phenanthrene	85-01-8	7.6	J	7.4	19	10
10138	Pyrene	129-00-0	20		7.4	19	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	2.2		0.69	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	140	U	140	280	1
10401	MCPP (Mecoprop)	93-65-2	270	J	84	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-297-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162781
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3108 SDG#: DE031-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.087	J	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.38	1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38	1
01363	p,p-DDT	50-29-3	1.5	U	1.5	1.5	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.10	U	0.10	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.34	U	0.34	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.51	U	0.51	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	8.9		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.1	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.68	J	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

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Analysis Report

Sample Description: SL-297-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162781
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3108 SDG#: DE031-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.39	21.4	1
07914	Boron	7440-42-8	10.8		0.953	5.35	1
01650	Calcium	7440-70-2	10,500		6.56	21.4	1
01654	Iron	7439-89-6	19,700		5.04	21.4	1
01656	Lithium	7439-93-2	23.5		0.24	2.1	1
01657	Magnesium	7439-95-4	5,280		2.72	10.7	1
06958	Manganese	7439-96-5	279		0.0835	0.535	1
10145	Phosphorus	7723-14-0	483		0.600	10.7	1
01662	Potassium	7440-09-7	4,790		19.3	53.5	1
01667	Sodium	7440-23-5	173		39.9	107	1
07968	Strontium	7440-24-6	37.6		0.0664	0.535	1
06969	Tin	7440-31-5	1.72	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,260		0.830	2.18	2
10146	Zirconium	7440-67-7	0.899	U	0.899	5.35	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.05		0.0642	0.428	2
06126	Barium	7440-39-3	77.8		0.116	0.428	2
06127	Beryllium	7440-41-7	0.344		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.136		0.0385	0.107	2
06131	Chromium	7440-47-3	13.0		0.128	0.428	2
06132	Cobalt	7440-48-4	4.81		0.0214	0.107	2
06133	Copper	7440-50-8	7.71		0.0707	0.428	2
06135	Lead	7439-92-1	4.98		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.475		0.0535	0.107	2
06139	Nickel	7440-02-0	8.10		0.107	0.428	2
06141	Selenium	7782-49-2	0.0872	J	0.0428	0.428	2
06142	Silver	7440-22-4	0.0230	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.187		0.0321	0.107	2
06148	Vanadium	7440-62-2	29.0		0.0236	0.107	2
06149	Zinc	7440-66-6	64.2		0.600	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-297-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162781
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3108 SDG#: DE031-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	470	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.39	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	10.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 22:56	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 12:01	Mark A Clark	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 21:02	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 22:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 01:31	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-297-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162781
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3108 SDG#: DE031-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 07:51	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 21:59	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 17:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 18:52	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 15:35	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-308-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162782
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3109 SDG#: DE031-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-308-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162782
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3109 SDG#: DE031-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	2.0		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.92	J	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	1.3	J	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	J	0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	1.2	J	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	83	U	83	270	1
10401	MCPP (Mecoprop)	93-65-2	200	J	82	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-308-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162782
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3109 SDG#: DE031-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.086	J	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.48		0.072	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18	5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18	5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3	5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.3	5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.3	5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.3	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3	5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3	5
10225	PCB-1260	11096-82-5	1.8	U	1.8	9.3	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3	5

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000	5.28	21.0	1
07914	Boron	7440-42-8	10.8	0.934	5.25	1
01650	Calcium	7440-70-2	3,770	6.43	21.0	1
01654	Iron	7439-89-6	18,800	4.94	21.0	1
01656	Lithium	7439-93-2	19.1	0.23	2.1	1
01657	Magnesium	7439-95-4	3,920	2.67	10.5	1
06958	Manganese	7439-96-5	302	0.0819	0.525	1
10145	Phosphorus	7723-14-0	327	0.588	10.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-308-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162782
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3109 SDG#: DE031-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,770		18.9	52.5	1
01667	Sodium	7440-23-5	84.6	J	39.2	105	1
07968	Strontium	7440-24-6	19.8		0.0651	0.525	1
06969	Tin	7440-31-5	1.95	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,100		0.830	2.18	2
10146	Zirconium	7440-67-7	2.02	J	0.882	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0655	U	0.0655	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.08		0.0655	0.437	2
06126	Barium	7440-39-3	94.4		0.118	0.437	2
06127	Beryllium	7440-41-7	0.511		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.137		0.0393	0.109	2
06131	Chromium	7440-47-3	20.2		0.131	0.437	2
06132	Cobalt	7440-48-4	6.26		0.0218	0.109	2
06133	Copper	7440-50-8	8.98		0.0721	0.437	2
06135	Lead	7439-92-1	6.44		0.0114	0.218	2
06138	Molybdenum	7439-98-7	0.628		0.0546	0.109	2
06139	Nickel	7440-02-0	12.0		0.109	0.437	2
06141	Selenium	7782-49-2	0.111	J	0.0437	0.437	2
06142	Silver	7440-22-4	0.0219	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.230		0.0328	0.109	2
06148	Vanadium	7440-62-2	37.6		0.0240	0.109	2
06149	Zinc	7440-66-6	66.9		0.611	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0029	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	482		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-308-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162782
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3109 SDG#: DE031-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 23:21	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 12:35	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 21:30	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 22:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 01:50	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-308-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162782
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3109 SDG#: DE031-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 07:55	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:03	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 19:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 19:16	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 15:48	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402A	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162783
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3110 SDG#: DE031-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162783
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3110 SDG#: DE031-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	J	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.5	20	1
10138	Chrysene	218-01-9	1.1	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10,000		650	2,000	100
10138	Fluoranthene	206-44-0	1.0	J	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	1.0	J	0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	1.9		0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	170	J	82	270	1
10401	MCPP (Mecoprop)	93-65-2	160	J	81	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162783
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3110 SDG#: DE031-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.24	U	0.24	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.15	U	0.15	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.80	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.45	21.7	1
07914	Boron	7440-42-8	10.1		0.964	5.42	1
01650	Calcium	7440-70-2	3,490		6.64	21.7	1
01654	Iron	7439-89-6	17,200		5.10	21.7	1
01656	Lithium	7439-93-2	18.3		0.24	2.2	1
01657	Magnesium	7439-95-4	3,510		2.75	10.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162783
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3110 SDG#: DE031-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	218		0.0845	0.542	1
10145	Phosphorus	7723-14-0	381		0.607	10.8	1
01662	Potassium	7440-09-7	2,490		19.5	54.2	1
01667	Sodium	7440-23-5	195		40.4	108	1
07968	Strontium	7440-24-6	18.9		0.0672	0.542	1
06969	Tin	7440-31-5	2.06	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,100		2.00	5.26	5
10146	Zirconium	7440-67-7	1.33	J	0.910	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0625	U	0.0625	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.93		0.0625	0.417	2
06126	Barium	7440-39-3	72.7		0.113	0.417	2
06127	Beryllium	7440-41-7	0.434		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.0898	J	0.0375	0.104	2
06131	Chromium	7440-47-3	14.4		0.125	0.417	2
06132	Cobalt	7440-48-4	4.51		0.0208	0.104	2
06133	Copper	7440-50-8	6.35		0.0688	0.417	2
06135	Lead	7439-92-1	4.90		0.0108	0.208	2
06138	Molybdenum	7439-98-7	0.551		0.0521	0.104	2
06139	Nickel	7440-02-0	8.51		0.104	0.417	2
06141	Selenium	7782-49-2	0.133	J	0.0417	0.417	2
06142	Silver	7440-22-4	0.0283	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.202		0.0313	0.104	2
06148	Vanadium	7440-62-2	27.4		0.0229	0.104	2
06149	Zinc	7440-66-6	53.3		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0123	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	460		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162783
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3110 SDG#: DE031-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.12	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/18/2010 23:46	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 13:08	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/20/2010 13:12	Chad A Moline	100
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 21:57	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 22:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 02:08	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162783
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3110 SDG#: DE031-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 17:09	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:07	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 19:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 19:40	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10355243202A	12/23/2010 16:07	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402B	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-282-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162784
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3111 SDG#: DE031-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-282-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162784
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3111 SDG#: DE031-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.83	J	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.76	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.86	J	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	180	U	180	180	1
10401	MCPP (Mecoprop)	93-65-2	300		81	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-282-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162784
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3111 SDG#: DE031-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	1.4	U	1.4	1.4	1
01363	p,p-DDE	72-55-9	1.4	U	1.4	1.4	1
01363	p,p-DDT	50-29-3	11		0.71	3.7	10
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.71	U	0.71	0.71	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.11	U	0.11	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.070	U	0.070	0.18	1
01363	Methoxychlor	72-43-5	0.51	U	0.51	1.8	1
01363	Mirex	2385-85-5	0.22	U	0.22	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.50	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.79	J	0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-282-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162784
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3111 SDG#: DE031-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.23	20.8	1
07914	Boron	7440-42-8	10.8		0.926	5.20	1
01650	Calcium	7440-70-2	4,350		6.38	20.8	1
01654	Iron	7439-89-6	19,500		4.90	20.8	1
01656	Lithium	7439-93-2	19.6		0.23	2.1	1
01657	Magnesium	7439-95-4	4,310		2.64	10.4	1
06958	Manganese	7439-96-5	271		0.0812	0.520	1
10145	Phosphorus	7723-14-0	370		0.583	10.4	1
01662	Potassium	7440-09-7	3,060		18.7	52.0	1
01667	Sodium	7440-23-5	184		38.8	104	1
07968	Strontium	7440-24-6	21.0		0.0645	0.520	1
06969	Tin	7440-31-5	1.86	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,100		0.806	2.12	2
10146	Zirconium	7440-67-7	1.37	J	0.874	5.20	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0630	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.59		0.0630	0.420	2
06126	Barium	7440-39-3	102		0.113	0.420	2
06127	Beryllium	7440-41-7	0.521		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.192		0.0378	0.105	2
06131	Chromium	7440-47-3	18.9		0.126	0.420	2
06132	Cobalt	7440-48-4	6.17		0.0210	0.105	2
06133	Copper	7440-50-8	10.2		0.0693	0.420	2
06135	Lead	7439-92-1	7.31		0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.473		0.0525	0.105	2
06139	Nickel	7440-02-0	11.6		0.105	0.420	2
06141	Selenium	7782-49-2	0.120	J	0.0420	0.420	2
06142	Silver	7440-22-4	0.0435	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.243		0.0315	0.105	2
06148	Vanadium	7440-62-2	37.0		0.0231	0.105	2
06149	Zinc	7440-66-6	126		0.588	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-282-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162784
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3111 SDG#: DE031-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	425	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.29	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/19/2010 00:12	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 13:42	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 22:25	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 23:02	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 23:15	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 02:27	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-282-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162784
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3111 SDG#: DE031-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 08:03	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:10	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 17:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 19:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 20:04	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 16:14	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182102B	12/13/2010 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039402B	12/13/2010 10:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-283-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162785
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3112 SDG#: DE031-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-283-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162785
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3112 SDG#: DE031-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.75	J	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.99	J	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.6	20	1
10138	Chrysene	218-01-9	1.1	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.6	20	1
10138	Fluoranthene	206-44-0	1.3	J	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.75	J	0.73	1.8	1
10138	Pyrene	129-00-0	1.4	J	0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	3.2	U	3.2	3.2	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	120	J	83	270	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-283-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162785
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3112 SDG#: DE031-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.18	J	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.14	U	0.14	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.59	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.47	J	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-283-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162785
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3112 SDG#: DE031-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.50	21.9	1
07914	Boron	7440-42-8	10.2		0.973	5.46	1
01650	Calcium	7440-70-2	5,340		6.70	21.9	1
01654	Iron	7439-89-6	17,800		5.15	21.9	1
01656	Lithium	7439-93-2	17.7		0.24	2.2	1
01657	Magnesium	7439-95-4	3,870		2.78	10.9	1
06958	Manganese	7439-96-5	235		0.0852	0.546	1
10145	Phosphorus	7723-14-0	363		0.612	10.9	1
01662	Potassium	7440-09-7	2,840		19.7	54.6	1
01667	Sodium	7440-23-5	142		40.8	109	1
07968	Strontium	7440-24-6	23.8		0.0678	0.546	1
06969	Tin	7440-31-5	2.05	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,010		2.04	5.36	5
10146	Zirconium	7440-67-7	1.31	J	0.918	5.46	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0637	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.46		0.0637	0.424	2
06126	Barium	7440-39-3	89.3		0.115	0.424	2
06127	Beryllium	7440-41-7	0.472		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.133		0.0382	0.106	2
06131	Chromium	7440-47-3	17.2		0.127	0.424	2
06132	Cobalt	7440-48-4	5.62		0.0212	0.106	2
06133	Copper	7440-50-8	8.40		0.0700	0.424	2
06135	Lead	7439-92-1	5.12		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.548		0.0531	0.106	2
06139	Nickel	7440-02-0	9.80		0.106	0.424	2
06141	Selenium	7782-49-2	0.121	J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0162	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.265		0.0318	0.106	2
06148	Vanadium	7440-62-2	34.3		0.0233	0.106	2
06149	Zinc	7440-66-6	62.3		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0126	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-283-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162785
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

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Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3112 SDG#: DE031-12

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	497	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.24	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/19/2010 00:37	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/17/2010 16:12	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 22:53	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 13:24	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 23:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 02:45	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-283-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162785
LLI Group # 1225031
Account # 13013

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3112 SDG#: DE031-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 16:41	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:14	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 17:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 19:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 20:28	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 16:27	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-292-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162786
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3113 SDG#: DE031-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-292-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162786
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3113 SDG#: DE031-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.85	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.4	19	1
10138	Chrysene	218-01-9	1.9		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.4	19	1
10138	Fluoranthene	206-44-0	2.1		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.90	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	J	0.71	1.8	1
10138	Pyrene	129-00-0	1.6	J	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	4.4	U	4.4	4.4	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	98	U	98	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-292-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162786
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3113 SDG#: DE031-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.097	J	0.070	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.086	J	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.087	U	0.087	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.080	U	0.080	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.092	J	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endrin aldehyde.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-292-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162786
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3113 SDG#: DE031-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,920		5.31	21.1	1
07914	Boron	7440-42-8	9.11		0.939	5.28	1
01650	Calcium	7440-70-2	4,530		6.47	21.1	1
01654	Iron	7439-89-6	13,600		4.97	21.1	1
01656	Lithium	7439-93-2	12.9		0.23	2.1	1
01657	Magnesium	7439-95-4	3,070		2.68	10.6	1
06958	Manganese	7439-96-5	177		0.0823	0.528	1
10145	Phosphorus	7723-14-0	423		0.591	10.6	1
01662	Potassium	7440-09-7	2,020		19.0	52.8	1
01667	Sodium	7440-23-5	408		39.4	106	1
07968	Strontium	7440-24-6	39.0		0.0654	0.528	1
06969	Tin	7440-31-5	1.79	J	1.06	10.6	1
06970	Titanium	7440-32-6	823		0.401	1.06	1
10146	Zirconium	7440-67-7	2.46	J	0.887	5.28	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0627	U	0.0627	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.31		0.0627	0.418	2
06126	Barium	7440-39-3	106		0.113	0.418	2
06127	Beryllium	7440-41-7	0.295		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.120		0.0376	0.105	2
06131	Chromium	7440-47-3	28.5		0.125	0.418	2
06132	Cobalt	7440-48-4	4.77		0.0209	0.105	2
06133	Copper	7440-50-8	8.11		0.0690	0.418	2
06135	Lead	7439-92-1	3.97		0.0109	0.209	2
06138	Molybdenum	7439-98-7	1.35		0.0523	0.105	2
06139	Nickel	7440-02-0	11.9		0.105	0.418	2
06141	Selenium	7782-49-2	0.287	J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0282	J	0.0125	0.105	2
06145	Thallium	7440-28-0	0.131		0.0314	0.105	2
06148	Vanadium	7440-62-2	34.7		0.0230	0.105	2
06149	Zinc	7440-66-6	45.1		0.585	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0151	J	0.0029	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-292-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162786
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3113 SDG#: DE031-13

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	466	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.63	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/19/2010 01:03	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/20/2010 13:46	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 23:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/05/2011 02:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 03:04	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-292-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162786
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
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CDM Federal Programs Corp.
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E3113 SDG#: DE031-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 08:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:25	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 20:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 20:52	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 16:39	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-293-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162787
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3114 SDG#: DE031-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-293-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162787
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3114 SDG#: DE031-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.5	U	7.5	19	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	19	10
10138	Anthracene	120-12-7	3.7	U	3.7	19	10
10138	Benzo(a)anthracene	56-55-3	7.5	U	7.5	19	10
10138	Benzo(a)pyrene	50-32-8	26		7.5	19	10
10138	Benzo(b)fluoranthene	205-99-2	21		7.5	19	10
10138	Benzo(g,h,i)perylene	191-24-2	13	J	7.5	19	10
10138	Benzo(k)fluoranthene	207-08-9	38		7.5	19	10
10138	Chrysene	218-01-9	19		3.7	19	10
10138	Dibenz(a,h)anthracene	53-70-3	7.5	U	7.5	19	10
10138	Fluoranthene	206-44-0	7.5	U	7.5	19	10
10138	Fluorene	86-73-7	7.5	U	7.5	19	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.5	U	7.5	19	10
10138	1-Methylnaphthalene	90-12-0	7.5	U	7.5	19	10
10138	2-Methylnaphthalene	91-57-6	7.5	U	7.5	19	10
10138	Naphthalene	91-20-3	7.5	U	7.5	19	10
10138	N-Nitrosodimethylamine	62-75-9	7.5	U	7.5	19	10
10138	Phenanthrene	85-01-8	7.5	U	7.5	19	10
10138	Pyrene	129-00-0	8.3	J	7.5	19	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	1.6	J	0.69	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.4	J	0.89	1.9	1
10401	MCPA	94-74-6	880	U	880	880	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-293-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162787
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3114 SDG#: DE031-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.29	U	0.29	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.31	U	0.31	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.091	U	0.091	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.46	U	0.46	0.46	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.46	U	0.46	1.9	1
01363	Mirex	2385-85-5	0.21	U	0.21	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.99	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	1.1	J	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,600		5.57	22.1	1
07914	Boron	7440-42-8	9.99		0.986	5.54	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-293-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162787
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3114 SDG#: DE031-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	6,690	6.79	22.1	1
01654	Iron	7439-89-6	15,700	5.22	22.1	1
01656	Lithium	7439-93-2	15.0	0.24	2.2	1
01657	Magnesium	7439-95-4	3,520	2.81	11.1	1
06958	Manganese	7439-96-5	198	0.0864	0.554	1
10145	Phosphorus	7723-14-0	445	0.620	11.1	1
01662	Potassium	7440-09-7	2,280	19.9	55.4	1
01667	Sodium	7440-23-5	288	41.3	111	1
07968	Strontium	7440-24-6	33.6	0.0687	0.554	1
06969	Tin	7440-31-5	1.37 J	1.11	11.1	1
06970	Titanium	7440-32-6	832	0.417	1.10	1
10146	Zirconium	7440-67-7	2.99 J	0.930	5.54	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0652 U	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	4.54	0.0652	0.434	2
06126	Barium	7440-39-3	81.9	0.117	0.434	2
06127	Beryllium	7440-41-7	0.328	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.140	0.0391	0.109	2
06131	Chromium	7440-47-3	22.8	0.130	0.434	2
06132	Cobalt	7440-48-4	4.66	0.0217	0.109	2
06133	Copper	7440-50-8	7.16	0.0717	0.434	2
06135	Lead	7439-92-1	4.36	0.0113	0.217	2
06138	Molybdenum	7439-98-7	1.26	0.0543	0.109	2
06139	Nickel	7440-02-0	10.7	0.109	0.434	2
06141	Selenium	7782-49-2	0.148 J	0.0434	0.434	2
06142	Silver	7440-22-4	0.0352 J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.149	0.0326	0.109	2
06148	Vanadium	7440-62-2	30.2	0.0239	0.109	2
06149	Zinc	7440-66-6	51.4	0.608	3.26	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0144 J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-293-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162787
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3114 SDG#: DE031-14

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	445	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	9.05	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	10.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/19/2010 01:29	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 14:49	Mark A Clark	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/14/2010 23:48	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/05/2011 02:43	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 03:22	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-293-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162787
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3114 SDG#: DE031-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 08:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:28	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 20:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202A	12/20/2010 21:16	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 17:05	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202A	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-231-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162788
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3115 SDG#: DE031-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162788
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3115 SDG#: DE031-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.81	J	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.8		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	J	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.85	J	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	1.2	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.3	19	1
10138	Fluoranthene	206-44-0	1.3	J	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	1.2	J	0.70	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162788
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3115 SDG#: DE031-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35	1
01363	p,p-DDT	50-29-3	0.097	U	0.097	0.35	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.096	U	0.096	0.35	1
01363	Endrin Ketone	53494-70-5	0.10	U	0.10	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.055	J	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.76	J	0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162788
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3115 SDG#: DE031-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,330		5.05	20.1	1
07914	Boron	7440-42-8	9.20		0.893	5.02	1
01650	Calcium	7440-70-2	33,700		6.15	20.1	1
01654	Iron	7439-89-6	15,600		4.73	20.1	1
01656	Lithium	7439-93-2	18.2		0.22	2.0	1
01657	Magnesium	7439-95-4	7,010		2.55	10.0	1
06958	Manganese	7439-96-5	232		0.0783	0.502	1
10145	Phosphorus	7723-14-0	421		0.562	10.0	1
01662	Potassium	7440-09-7	2,760		18.1	50.2	1
01667	Sodium	7440-23-5	524		37.4	100	1
07968	Strontium	7440-24-6	112		0.0622	0.502	1
06969	Tin	7440-31-5	1.76	J	1.00	10.0	1
06970	Titanium	7440-32-6	1,100		0.785	2.07	2
10146	Zirconium	7440-67-7	0.843	U	0.843	5.02	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0602	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.10		0.0602	0.401	2
06126	Barium	7440-39-3	111		0.108	0.401	2
06127	Beryllium	7440-41-7	0.325		0.0161	0.100	2
06128	Cadmium	7440-43-9	0.0941	J	0.0361	0.100	2
06131	Chromium	7440-47-3	12.8		0.120	0.401	2
06132	Cobalt	7440-48-4	5.81		0.0201	0.100	2
06133	Copper	7440-50-8	9.32		0.0662	0.401	2
06135	Lead	7439-92-1	4.31		0.0104	0.201	2
06138	Molybdenum	7439-98-7	0.493		0.0502	0.100	2
06139	Nickel	7440-02-0	7.51		0.100	0.401	2
06141	Selenium	7782-49-2	0.0883	J	0.0401	0.401	2
06142	Silver	7440-22-4	0.0405	J	0.0120	0.100	2
06145	Thallium	7440-28-0	0.284		0.0301	0.100	2
06148	Vanadium	7440-62-2	32.5		0.0221	0.100	2
06149	Zinc	7440-66-6	93.0		0.562	3.01	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0161	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162788
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3115 SDG#: DE031-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	418	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.08	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/19/2010 01:54	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 15:23	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/15/2010 00:15	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 13:30	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 23:43	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 04:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162788
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3115 SDG#: DE031-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 08:21	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:32	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 17:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 20:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/20/2010 22:04	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 17:18	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162789
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3116 SDG#: DE031-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzo(b)fluoranthene	205-99-2	21	J	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	21	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Chrysene	218-01-9	49	J	18	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360	1
04688	Fluoranthene	206-44-0	87	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162789
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3116 SDG#: DE031-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenanthrene	85-01-8	35	J	18	180	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	69	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.63	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	4.2		0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	4.1		0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	130	U	130	270	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162789
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3116 SDG#: DE031-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.072	U	0.072	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.24	U	0.24	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.21	U	0.21	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.47	J	0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162789
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3116 SDG#: DE031-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,880		5.41	21.5	1
07914	Boron	7440-42-8	9.73		0.958	5.38	1
01650	Calcium	7440-70-2	3,390		6.60	21.5	1
01654	Iron	7439-89-6	16,600		5.07	21.5	1
01656	Lithium	7439-93-2	21.1		0.24	2.2	1
01657	Magnesium	7439-95-4	3,780		2.73	10.8	1
06958	Manganese	7439-96-5	230		0.0839	0.538	1
10145	Phosphorus	7723-14-0	334		0.603	10.8	1
01662	Potassium	7440-09-7	2,620		19.4	53.8	1
01667	Sodium	7440-23-5	231		40.1	108	1
07968	Strontium	7440-24-6	14.0		0.0667	0.538	1
06969	Tin	7440-31-5	2.04	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,150		1.99	5.23	5
10146	Zirconium	7440-67-7	0.981	J	0.904	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0633	U	0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.12		0.0633	0.422	2
06126	Barium	7440-39-3	83.2		0.114	0.422	2
06127	Beryllium	7440-41-7	0.451		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.123		0.0380	0.106	2
06131	Chromium	7440-47-3	14.8		0.127	0.422	2
06132	Cobalt	7440-48-4	4.93		0.0211	0.106	2
06133	Copper	7440-50-8	6.89		0.0696	0.422	2
06135	Lead	7439-92-1	5.19		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.410		0.0528	0.106	2
06139	Nickel	7440-02-0	8.94		0.106	0.422	2
06141	Selenium	7782-49-2	0.0987	J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0151	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.229		0.0317	0.106	2
06148	Vanadium	7440-62-2	28.3		0.0232	0.106	2
06149	Zinc	7440-66-6	79.9		0.591	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0055	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162789
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3116 SDG#: DE031-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	439		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.92		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/20/2010 08:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 15:57	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/15/2010 00:43	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 13:36	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/05/2011 02:56	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 05:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162789
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3116 SDG#: DE031-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 17:13	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:36	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 20:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/20/2010 23:16	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 17:31	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162789
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3116 SDG#: DE031-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-230-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162790
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3117 SDG#: DE031-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162790
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3117 SDG#: DE031-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	2.8		0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	17		0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	14		0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	19		0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	4.1		0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	9.5		0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	14		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	45		0.74	1.9	1
10138	Fluorene	86-73-7	0.93	J	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.0		0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	12		0.74	1.9	1
10138	Pyrene	129-00-0	34		0.74	1.9	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	2.6		0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	380		85	280	1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162790
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3117 SDG#: DE031-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38	1
01363	p,p-DDT	50-29-3	0.16	U	0.16	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	18	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	18	5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.5	5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.5	5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.5	5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.5	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.5	5
10225	PCB-1254	11097-69-1	55		1.8	9.5	5
10225	PCB-1260	11096-82-5	1.8	U	1.8	9.5	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.5	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.5	5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162790
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3117 SDG#: DE031-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,440		5.60	22.2	1
07914	Boron	7440-42-8	10.9		0.990	5.56	1
01650	Calcium	7440-70-2	12,700		6.82	22.2	1
01654	Iron	7439-89-6	15,900		5.24	22.2	1
01656	Lithium	7439-93-2	15.7		0.24	2.2	1
01657	Magnesium	7439-95-4	4,310		2.83	11.1	1
06958	Manganese	7439-96-5	249		0.0868	0.556	1
10145	Phosphorus	7723-14-0	620		0.623	11.1	1
01662	Potassium	7440-09-7	2,320		20.0	55.6	1
01667	Sodium	7440-23-5	328		41.5	111	1
07968	Strontium	7440-24-6	38.6		0.0690	0.556	1
06969	Tin	7440-31-5	1.58	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,040		2.07	5.45	5
10146	Zirconium	7440-67-7	2.96	J	0.934	5.56	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0636	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.13		0.0636	0.424	2
06126	Barium	7440-39-3	109		0.114	0.424	2
06127	Beryllium	7440-41-7	0.396		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.287		0.0381	0.106	2
06131	Chromium	7440-47-3	25.0		0.127	0.424	2
06132	Cobalt	7440-48-4	6.78		0.0212	0.106	2
06133	Copper	7440-50-8	12.9		0.0699	0.424	2
06135	Lead	7439-92-1	9.44		0.0110	0.212	2
06138	Molybdenum	7439-98-7	1.61		0.0530	0.106	2
06139	Nickel	7440-02-0	15.6		0.106	0.424	2
06141	Selenium	7782-49-2	1.12		0.0424	0.424	2
06142	Silver	7440-22-4	0.0385	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.199		0.0318	0.106	2
06148	Vanadium	7440-62-2	48.5		0.0233	0.106	2
06149	Zinc	7440-66-6	70.9		0.593	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0337	J	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162790
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3117 SDG#: DE031-17

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	444	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.88	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	10.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/20/2010 08:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/18/2010 16:30	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/15/2010 02:05	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 13:43	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/04/2011 23:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 05:32	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162790
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3117 SDG#: DE031-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 17:23	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:40	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 17:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10350350201B	12/17/2010 21:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/20/2010 23:40	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10355243202A	12/23/2010 17:50	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10350350201B	12/16/2010 13:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162791
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3118 SDG#: DE031-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	52	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162791
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3118 SDG#: DE031-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	17	U	17	44	5
10138	Acenaphthylene	208-96-8	8.7	U	8.7	44	5
10138	Anthracene	120-12-7	8.7	U	8.7	44	5
10138	Benzo(a)anthracene	56-55-3	19	J	17	44	5
10138	Benzo(a)pyrene	50-32-8	34	J	17	44	5
10138	Benzo(b)fluoranthene	205-99-2	110		17	44	5
10138	Benzo(g,h,i)perylene	191-24-2	100		17	44	5
10138	Benzo(k)fluoranthene	207-08-9	17	U	17	44	5
10138	Chrysene	218-01-9	93		8.7	44	5
10138	Dibenz(a,h)anthracene	53-70-3	36	J	17	44	5
10138	Fluoranthene	206-44-0	17	U	17	44	5
10138	Fluorene	86-73-7	17	U	17	44	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33	J	17	44	5
10138	1-Methylnaphthalene	90-12-0	17	U	17	44	5
10138	2-Methylnaphthalene	91-57-6	17	U	17	44	5
10138	Naphthalene	91-20-3	17	U	17	44	5
10138	N-Nitrosodimethylamine	62-75-9	17	U	17	44	5
10138	Phenanthrene	85-01-8	17	U	17	44	5
10138	Pyrene	129-00-0	17	U	17	44	5
	Reporting limits were raised due to interference from the sample matrix.						
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	3.8		0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	80	U	80	260	1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162791
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3118 SDG#: DE031-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36	1
01363	p,p-DDT	50-29-3	0.069	U	0.069	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.68	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.50	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162791
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3118 SDG#: DE031-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,220		5.28	21.0	1
07914	Boron	7440-42-8	11.7		0.934	5.25	1
01650	Calcium	7440-70-2	5,850		6.43	21.0	1
01654	Iron	7439-89-6	16,500		4.94	21.0	1
01656	Lithium	7439-93-2	12.2		0.23	2.1	1
01657	Magnesium	7439-95-4	3,380		2.67	10.5	1
06958	Manganese	7439-96-5	223		0.0818	0.525	1
10145	Phosphorus	7723-14-0	476		0.588	10.5	1
01662	Potassium	7440-09-7	2,240		18.9	52.5	1
01667	Sodium	7440-23-5	959		39.1	105	1
07968	Strontium	7440-24-6	35.7		0.0651	0.525	1
06969	Tin	7440-31-5	2.05	J	1.05	10.5	1
06970	Titanium	7440-32-6	732		0.387	1.02	1
10146	Zirconium	7440-67-7	2.53	J	0.881	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0933	J	0.0600	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.52		0.0600	0.400	2
06126	Barium	7440-39-3	87.6		0.108	0.400	2
06127	Beryllium	7440-41-7	0.281		0.0160	0.0999	2
06128	Cadmium	7440-43-9	0.268		0.0360	0.0999	2
06131	Chromium	7440-47-3	25.7		0.120	0.400	2
06132	Cobalt	7440-48-4	5.68		0.0200	0.0999	2
06133	Copper	7440-50-8	14.9		0.0660	0.400	2
06135	Lead	7439-92-1	5.95		0.0104	0.200	2
06138	Molybdenum	7439-98-7	1.90		0.0500	0.0999	2
06139	Nickel	7440-02-0	13.9		0.0999	0.400	2
06141	Selenium	7782-49-2	0.614		0.0400	0.400	2
06142	Silver	7440-22-4	0.0609	J	0.0120	0.0999	2
06145	Thallium	7440-28-0	0.143		0.0300	0.0999	2
06148	Vanadium	7440-62-2	32.4		0.0220	0.0999	2
06149	Zinc	7440-66-6	121		0.560	3.00	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0152	J	0.0028	0.0979	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162791
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3118 SDG#: DE031-18

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	448	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.76	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/20/2010 09:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/20/2010 14:21	Chad A Moline	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/15/2010 02:33	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 13:49	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550005A	01/05/2011 00:11	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 05:51	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103550005A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162791
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3118 SDG#: DE031-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 08:32	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:43	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/21/2010 17:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 10:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/21/2010 00:04	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 17:57	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162792
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3119 SDG#: DE031-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	9,000	U	9,000	27,000	10
04688	Benzidine	92-87-5	63,000	U	63,000	180,000	10
04688	Benzoic acid	65-85-0	9,000	U	9,000	27,000	10
04688	Benzyl alcohol	100-51-6	9,000	U	9,000	27,000	10
04688	4-Bromophenyl-phenylether	101-55-3	900	U	900	9,000	10
04688	Butylbenzylphthalate	85-68-7	900	U	900	9,000	10
04688	Di-n-butylphthalate	84-74-2	900	U	900	9,000	10
04688	Carbazole	86-74-8	900	U	900	9,000	10
04688	4-Chloro-3-methylphenol	59-50-7	1,800	U	1,800	9,000	10
04688	4-Chloroaniline	106-47-8	3,600	U	3,600	9,000	10
04688	bis(2-Chloroethoxy)methane	111-91-1	900	U	900	9,000	10
04688	bis(2-Chloroethyl)ether	111-44-4	900	U	900	9,000	10
04688	bis(2-Chloroisopropyl)ether	39638-32-9	900	U	900	9,000	10
04688	2-Chloronaphthalene	91-58-7	900	U	900	9,000	10
04688	2-Chlorophenol	95-57-8	900	U	900	9,000	10
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	U	1,800	9,000	10
04688	Dibenzofuran	132-64-9	900	U	900	9,000	10
04688	1,2-Dichlorobenzene	95-50-1	900	U	900	9,000	10
04688	1,3-Dichlorobenzene	541-73-1	900	U	900	9,000	10
04688	1,4-Dichlorobenzene	106-46-7	900	U	900	9,000	10
04688	3,3'-Dichlorobenzidine	91-94-1	5,400	U	5,400	18,000	10
04688	2,4-Dichlorophenol	120-83-2	900	U	900	9,000	10
04688	Diethylphthalate	84-66-2	900	U	900	9,000	10
04688	2,4-Dimethylphenol	105-67-9	1,800	U	1,800	9,000	10
04688	3,5-Dimethylphenol	108-68-9	1,800	U	1,800	9,000	10
04688	Dimethylphthalate	131-11-3	900	U	900	9,000	10
04688	4,6-Dinitro-2-methylphenol	534-52-1	9,000	U	9,000	27,000	10
04688	2,4-Dinitrophenol	51-28-5	36,000	U	36,000	110,000	10
04688	2,4-Dinitrotoluene	121-14-2	1,800	U	1,800	9,000	10
04688	2,6-Dinitrotoluene	606-20-2	900	U	900	9,000	10
04688	1,2-Diphenylhydrazine	122-66-7	900	U	900	9,000	10
04688	bis(2-Ethylhexyl)phthalate	117-81-7	900	U	900	18,000	10
04688	Hexachlorobenzene	118-74-1	900	U	900	9,000	10
04688	Hexachlorobutadiene	87-68-3	3,600	U	3,600	9,000	10
04688	Hexachlorocyclopentadiene	77-47-4	9,000	U	9,000	27,000	10
04688	Hexachloroethane	67-72-1	900	U	900	9,000	10
04688	Isophorone	78-59-1	900	U	900	9,000	10
04688	2-Methylphenol	95-48-7	1,800	U	1,800	9,000	10
04688	4-Methylphenol	106-44-5	1,800	U	1,800	9,000	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	900	U	900	9,000	10
04688	3-Nitroaniline	99-09-2	1,800	U	1,800	9,000	10
04688	4-Nitroaniline	100-01-6	3,600	U	3,600	9,000	10
04688	Nitrobenzene	98-95-3	900	U	900	9,000	10
04688	2-Nitrophenol	88-75-5	900	U	900	9,000	10
04688	4-Nitrophenol	100-02-7	9,000	U	9,000	27,000	10
04688	N-Nitroso-di-n-propylamine	621-64-7	900	U	900	9,000	10
04688	N-Nitrosodiphenylamine	86-30-6	900	U	900	9,000	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162792
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3119 SDG#: DE031-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	900	U	900	9,000	10
04688	Pentachlorophenol	87-86-5	9,000	U	9,000	27,000	10
04688	Phenol	108-95-2	900	U	900	9,000	10
04688	1,2,4-Trichlorobenzene	120-82-1	900	U	900	9,000	10
04688	2,4,5-Trichlorophenol	95-95-4	1,800	U	1,800	9,000	10
04688	2,4,6-Trichlorophenol	88-06-2	1,800	U	1,800	9,000	10
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	36	U	36	90	10
10138	Acenaphthylene	208-96-8	18	U	18	90	10
10138	Anthracene	120-12-7	18	U	18	90	10
10138	Benzo(a)anthracene	56-55-3	36	U	36	90	10
10138	Benzo(a)pyrene	50-32-8	36	U	36	90	10
10138	Benzo(b)fluoranthene	205-99-2	59	J	36	90	10
10138	Benzo(g,h,i)perylene	191-24-2	36	U	36	90	10
10138	Benzo(k)fluoranthene	207-08-9	36	U	36	90	10
10138	Chrysene	218-01-9	80	J	18	90	10
10138	Dibenz(a,h)anthracene	53-70-3	36	U	36	90	10
10138	Fluoranthene	206-44-0	36	U	36	90	10
10138	Fluorene	86-73-7	36	U	36	90	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	36	U	36	90	10
10138	1-Methylnaphthalene	90-12-0	36	U	36	90	10
10138	2-Methylnaphthalene	91-57-6	36	U	36	90	10
10138	Naphthalene	91-20-3	36	U	36	90	10
10138	N-Nitrosodimethylamine	62-75-9	36	U	36	90	10
10138	Phenanthrene	85-01-8	36	U	36	90	10
10138	Pyrene	129-00-0	36	U	36	90	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	200	U	200	270	1
10401	MCPP (Mecoprop)	93-65-2	170	U	170	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162792
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3119 SDG#: DE031-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and MCPP.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	3.5	U	3.5	8.9	50
01363	Alpha BHC	319-84-6	1.8	U	1.8	8.9	50
01363	Beta BHC	319-85-7	3.2	U	3.2	8.9	50
01363	Gamma BHC - Lindane	58-89-9	1.8	U	1.8	8.9	50
01363	Chlordane	57-74-9	43	U	43	180	50
01363	p,p-DDD	72-54-8	3.5	U	3.5	18	50
01363	p,p-DDE	72-55-9	3.5	U	3.5	18	50
01363	p,p-DDT	50-29-3	3.5	U	3.5	18	50
01363	Delta BHC	319-86-8	1.9	U	1.9	8.9	50
01363	Dieldrin	60-57-1	3.5	U	3.5	18	50
01363	Endosulfan I	959-98-8	2.4	U	2.4	8.9	50
01363	Endosulfan II	33213-65-9	3.5	U	3.5	18	50
01363	Endosulfan Sulfate	1031-07-8	3.5	U	3.5	18	50
01363	Endrin	72-20-8	3.5	U	3.5	18	50
01363	Endrin Aldehyde	7421-93-4	3.5	U	3.5	18	50
01363	Endrin Ketone	53494-70-5	3.5	U	3.5	18	50
01363	Heptachlor	76-44-8	3.2	U	3.2	8.9	50
01363	Heptachlor Epoxide	1024-57-3	1.8	U	1.8	8.9	50
01363	Methoxychlor	72-43-5	18	U	18	89	50
01363	Mirex	2385-85-5	9.8	J	3.5	18	50
01363	Toxaphene	8001-35-2	120	U	120	350	50
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162792
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3119 SDG#: DE031-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.64	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.72	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.19	20.7	1
07914	Boron	7440-42-8	10.8		0.919	5.16	1
01650	Calcium	7440-70-2	13,400		6.33	20.7	1
01654	Iron	7439-89-6	17,400		4.86	20.7	1
01656	Lithium	7439-93-2	16.8		0.23	2.1	1
01657	Magnesium	7439-95-4	4,020		2.62	10.3	1
06958	Manganese	7439-96-5	222		0.0806	0.516	1
10145	Phosphorus	7723-14-0	517		0.578	10.3	1
01662	Potassium	7440-09-7	2,830		18.6	51.6	1
01667	Sodium	7440-23-5	621		38.5	103	1
07968	Strontium	7440-24-6	30.5		0.0640	0.516	1
06969	Tin	7440-31-5	2.08	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,020		1.98	5.21	5
10146	Zirconium	7440-67-7	1.85	J	0.868	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0632	U	0.0632	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.75		0.0632	0.421	2
06126	Barium	7440-39-3	82.9		0.114	0.421	2
06127	Beryllium	7440-41-7	0.417		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.185		0.0379	0.105	2
06131	Chromium	7440-47-3	17.0		0.126	0.421	2
06132	Cobalt	7440-48-4	5.49		0.0211	0.105	2
06133	Copper	7440-50-8	12.2		0.0695	0.421	2
06135	Lead	7439-92-1	6.94		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.798		0.0527	0.105	2
06139	Nickel	7440-02-0	10.4		0.105	0.421	2
06141	Selenium	7782-49-2	0.654		0.0421	0.421	2
06142	Silver	7440-22-4	0.0192	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.200		0.0316	0.105	2
06148	Vanadium	7440-62-2	31.5		0.0232	0.105	2
06149	Zinc	7440-66-6	62.9		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0240	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.86	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162792
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E3119 SDG#: DE031-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	436		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.04		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10347SLA026	12/20/2010 09:33	Brian K Graham	10
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLH026	12/20/2010 14:55	Chad A Moline	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLH026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10347SLA026	12/13/2010 14:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103470012A	12/15/2010 03:00	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 13:55	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/14/2011 21:03	Jamie L Brillhart	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470022A	12/19/2010 06:09	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470022A	12/14/2010 08:00	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162792
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3119 SDG#: DE031-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103470012A	12/14/2010 02:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
07914	Boron	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
01654	Iron	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
06969	Tin	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	103505708002	12/17/2010 17:27	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103485708003	12/15/2010 22:47	John P Hook	1
06124	Antimony	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103481026001D	12/17/2010 13:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103481026001C	12/17/2010 13:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103481026001B	12/17/2010 13:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103481026001A	12/17/2010 13:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711002	12/14/2010 20:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708003	12/14/2010 12:43	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708002	12/16/2010 21:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026001	12/14/2010 13:01	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711002	12/14/2010 13:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 10:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/21/2010 00:28	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243202A	12/23/2010 18:10	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162792
LLI Group # 1225031
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 15:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3119 SDG#: DE031-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243202A	12/21/2010 20:15	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10347SLA026	Sample number(s): 6162774-6162792									
Aniline	170 U		170.	500	ug/kg	37		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	15		15-121		
Benzo(a)pyrene	17	U	17.	170	ug/kg	87		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	80		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	87		65-122		
Benzoic acid	170 U		170.	500	ug/kg	87		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	85		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	83		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	86		79-112		
Carbazole	17	U	17.	170	ug/kg	88		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	27		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	84		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	81		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Chrysene	17	U	17.	170	ug/kg	87		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	87		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	78		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	28*		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	87		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	90		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	115		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	88		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	67		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	59		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	89		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	84		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	80		75-117		
Fluoranthene	17	U	17.	170	ug/kg	90		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	85		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		70-112		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	68		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	87		64-119		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	88		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	85		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	72		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	59		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	86		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	84		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	85		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	88		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	58		35-106		
Phenanthrene	17	U	17.	170	ug/kg	84		77-113		
Phenol	17	U	17.	170	ug/kg	86		58-112		
Pyrene	17	U	17.	170	ug/kg	85		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	92		78-111		
Batch number: 10348SLH026	Sample number(s): 6162774-6162792									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	91		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	94		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	89		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	104		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	90		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	108		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	108		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	103		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		56-121		
Batch number: 103470012A	Sample number(s): 6162774-6162792									
2,4-D	1.2	U	1.2	3.6	ug/kg	116		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	46		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	110		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	78		20-164		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dinoseb	0.80	U	0.80	2.4	ug/kg	3*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	105		60-141		
MCPA	76	U	76.	250	ug/kg	100		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	98		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	108		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	94		48-138		
Batch number: 103490016A	Sample number(s): 6162778,6162785,6162788-6162792									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	97		85-115		
Batch number: 103470022A	Sample number(s): 6162774-6162792									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	92	75-125	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	94		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103550005A	Sample number(s): 6162774,6162776-6162785,6162788,6162790-6162791									
Aldrin	0.066	U	0.066	0.17	ug/kg	90		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	100		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	106		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	128		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	128		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	102		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	106		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	89		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	108		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	129		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	113		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	84		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	129*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103560019A	Sample number(s): 6162775,6162786-6162787,6162789,6162792									
Aldrin	0.066	U	0.066	0.17	ug/kg	112		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	82		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	91		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	118		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	57		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	80		65-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endosulfan I	0.044	U	0.044	0.17	ug/kg	82		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	95		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	91		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	71		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	58		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	95		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	85		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	106		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	59		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103481026001A	Sample number(s): 6162774-6162792									
Antimony	0.0583	U	0.0583	0.194	mg/kg	67		11-208		
Arsenic	0.0583	U	0.0583	0.388	mg/kg	112		80-120		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	105		82-118		
Cadmium	0.0350	U	0.0350	0.0971	mg/kg	112		82-118		
Chromium	0.117	U	0.117	0.388	mg/kg	117		80-120		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	115		82-118		
Copper	0.0742	J	0.0641	0.388	mg/kg	109		80-120		
Lead	0.0101	U	0.0101	0.194	mg/kg	105		80-120		
Nickel	0.0971	U	0.0971	0.388	mg/kg	115		80-120		
Silver	0.0117	U	0.0117	0.0971	mg/kg	115		66-134		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	107		81-119		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	95		90-110		
Zinc	0.544	U	0.544	2.91	mg/kg	111		78-122		
Batch number: 103481026001B	Sample number(s): 6162774-6162792									
Selenium	0.0388	U	0.0388	0.388	mg/kg	108		79-122		
Batch number: 103481026001C	Sample number(s): 6162774-6162792									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	108		78-122		
Batch number: 103481026001D	Sample number(s): 6162774-6162792									
Barium	0.105	U	0.105	0.388	mg/kg	113		79-121		
Batch number: 103485708003	Sample number(s): 6162774-6162792									
Aluminum	4.98	U	4.98	19.8	mg/kg	83		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	95		78-110		
Calcium	6.07	U	6.07	19.8	mg/kg	105		88-110		
Iron	4.66	U	4.66	19.8	mg/kg	88		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	95		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	102		81-119		
Phosphorus	0.668	J	0.554	9.90	mg/kg	101		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	96		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	96		87-110		
Strontium	0.0614	U	0.0614	0.495	mg/kg	104		79-121		
Tin	1.46	J	0.990	9.90	mg/kg	106		90-114		
Zirconium	0.832	U	0.832	4.95	mg/kg	103		80-120		
Batch number: 103485711002	Sample number(s): 6162774-6162792									
Mercury	0.0027	U	0.0027	0.0945	mg/kg	96		88-123		
Batch number: 103505708002	Sample number(s): 6162774-6162792									
Titanium	0.380	U	0.380	1.00	mg/kg	97		80-120		
Batch number: 10350350201A	Sample number(s): 6162774-6162780									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 10350350201B	Sample number(s): 6162781-6162790									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 10351351201B	Sample number(s): 6162774-6162777									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 10352352202A	Sample number(s): 6162778-6162787									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	89		85-115		
Batch number: 10352352202B	Sample number(s): 6162788-6162792									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	89		85-115		
Batch number: 10355243202A	Sample number(s): 6162774-6162792									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	83		80-120		
Batch number: 10361361201A	Sample number(s): 6162791-6162792									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 10347039402A	Sample number(s): 6162774-6162782									
22a pH by 9045C						100		95-105		
Batch number: 10347039402B	Sample number(s): 6162783-6162784									
22a pH by 9045C						100		95-105		
Batch number: 10347039403A	Sample number(s): 6162785-6162792									
22a pH by 9045C						100		95-105		
Batch number: 10347182102A	Sample number(s): 6162774									
Oxidation Reduction Potential						99		98-102		
Batch number: 10347182102B	Sample number(s): 6162775-6162784									
Oxidation Reduction Potential						99		98-102		
Batch number: 10347182103A	Sample number(s): 6162785-6162792									
Oxidation Reduction Potential						99		98-102		
Batch number: 10347162402A	Sample number(s): 6162774-6162783									
28a Moisture Content by 160.3						100		80-120		
Batch number: 10347162402B	Sample number(s): 6162784-6162792									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10347SLA026	Sample number(s): 6162774-6162792 UNSPK: 6162774								
Aniline	68	59	14-114	14	30				
Benzidine	35	38	35-141	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)pyrene	96	93	57-126	3	30				
Benzo(b)fluoranthene	93	89	59-125	4	30				
Benzo(g,h,i)perylene	100	96	59-127	4	30				
Benzoic acid	63	68	10-173	7	30				
Benzyl alcohol	90	90	55-123	0	30				
4-Bromophenyl-phenylether	92	84	67-129	9	30				
Butylbenzylphthalate	88	84	73-134	4	30				
Di-n-butylphthalate	86	82	67-123	5	30				
Carbazole	88	84	64-120	4	30				
4-Chloro-3-methylphenol	88	88	53-130	0	30				
4-Chloroaniline	50	48	23-95	3	30				
bis(2-Chloroethoxy)methane	82	79	54-117	4	30				
bis(2-Chloroethyl)ether	84	79	60-116	5	30				
bis(2-Chloroisopropyl)ether	77	75	55-142	3	30				
2-Chloronaphthalene	72	66	50-141	9	30				
2-Chlorophenol	86	82	73-121	5	30				
4-Chlorophenyl-phenylether	90	88	64-119	2	30				
Chrysene	89	85	62-128	5	30				
Dibenzofuran	87	84	71-112	4	30				
1,2-Dichlorobenzene	79	72	66-108	9	30				
1,3-Dichlorobenzene	77	70	63-109	10	30				
1,4-Dichlorobenzene	79	70	53-113	12	30				
3,3'-Dichlorobenzidine	69	61	25-123	11	30				
2,4-Dichlorophenol	90	88	78-117	3	30				
Diethylphthalate	87	81	66-118	8	30				
2,4-Dimethylphenol	87	84	56-130	3	30				
3,5-Dimethylphenol	112	111	70-130	1	30				
Dimethylphthalate	87	80	64-118	8	30				
4,6-Dinitro-2-methylphenol	78	71	10-148	9	30				
2,4-Dinitrophenol	69	53	20-143	26	30				
2,4-Dinitrotoluene	88	84	57-114	5	30				
2,6-Dinitrotoluene	89	86	69-123	4	30				
1,2-Diphenylhydrazine	86	81	71-129	6	30				
bis(2-Ethylhexyl)phthalate	87	82	63-122	6	30				
Fluoranthene	94	85	59-122	10	30				
Hexachlorobenzene	87	83	61-111	5	30				
Hexachlorobutadiene	86	85	62-120	2	30				
Hexachlorocyclopentadiene	54	40	10-153	30	30				
Hexachloroethane	75	71	57-109	6	30				
Indeno(1,2,3-cd)pyrene	101	97	61-126	4	30				
Isophorone	82	80	51-118	3	30				
2-Methylphenol	86	85	47-142	1	30				
4-Methylphenol	89	85	55-126	5	30				
2-Nitroaniline	86	82	67-125	5	30				
3-Nitroaniline	84	78	59-122	7	30				
4-Nitroaniline	68	64	52-112	5	30				
Nitrobenzene	82	77	51-114	6	30				
2-Nitrophenol	80	78	74-115	3	30				
4-Nitrophenol	87	80	39-133	8	30				
N-Nitroso-di-n-propylamine	82	81	60-116	1	30				
N-Nitrosodiphenylamine	88	84*	86-145	5	30				
Di-n-octylphthalate	102	100	56-126	1	30				
Pentachlorophenol	65	63	17-149	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	85	81	65-125	4	30				
Phenol	82	79	58-126	5	30				
Pyrene	93	88	51-151	6	30				
1,2,4-Trichlorobenzene	83	80	72-115	3	30				
2,4,5-Trichlorophenol	90	83	34-139	8	30				
2,4,6-Trichlorophenol	94	87	49-140	7	30				
Batch number: 10348SLH026	Sample number(s): 6162774-6162792 UNSPK: 6162785								
Acenaphthene	95	99	63-105	3	30				
Acenaphthylene	103	108	55-126	5	30				
Anthracene	106	110	46-136	4	30				
Benzo(a)anthracene	103	108	39-144	4	30				
Benzo(a)pyrene	98	101	34-156	3	30				
Benzo(b)fluoranthene	118	123	43-155	4	30				
Benzo(g,h,i)perylene	48	44	33-141	8	30				
Benzo(k)fluoranthene	101	106	42-144	5	30				
Butylbenzylphthalate	115	125	73-140	8	30				
Di-n-butylphthalate	97	101	78-160	3	30				
Chrysene	95	101	29-156	6	30				
Dibenz(a,h)anthracene	59	56	41-130	6	30				
Diethylphthalate	117	123	87-131	5	30				
Dimethylphthalate	111	119*	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	98	114	39-167	12	30				
Fluoranthene	107	112	26-166	5	30				
Fluorene	104	109	45-121	5	30				
Indeno(1,2,3-cd)pyrene	56	52	21-143	8	30				
1-Methylnaphthalene	96	102	72-123	6	30				
2-Methylnaphthalene	87	93	28-121	7	30				
Naphthalene	88	96	61-102	9	30				
N-Nitrosodimethylamine	104	114*	48-113	10	30				
Di-n-octylphthalate	139	152	40-192	9	30				
Phenanthrene	97	101	12-165	3	30				
Pyrene	94	99	15-153	5	30				
Batch number: 103470012A	Sample number(s): 6162774-6162792 UNSPK: 6162776								
2,4-D	126	106	28-161	17	35				
Dalapon	66	48	12-86	32	50				
2,4-DB	114	89	20-170	25	50				
Dicamba	101	87	33-120	15	50				
Dinoseb	13	7	1-44	59*	35				
2,4-DP (Dichlorprop)	102	86	55-141	16	50				
MCPA	109	131	31-184	18	50				
MCPP (Mecoprop)	121	95	16-174	24	50				
2,4,5-T	93	76	25-132	20	35				
2,4,5-TP	88	66	10-183	28	35				
Batch number: 103490016A	Sample number(s): 6162778,6162785,6162788-6162792 UNSPK: P162822								
6a Perchlorate EPA 6850	101	99	80-120	2	20				
Batch number: 103470022A	Sample number(s): 6162774-6162792 UNSPK: 6162777								
PCB-1016	96	90	29-146	7	50				
PCB-1260	94	91	39-149	3	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103550005A	Sample number(s): 6162774,6162776-6162785,6162788,6162790-6162791 UNSPK: 6162776								
Aldrin	77	77	16-126	0	50				
Alpha BHC	94	91	10-129	3	50				
Beta BHC	94	88	14-147	7	50				
Gamma BHC - Lindane	94	94	10-140	0	50				
p,p-DDD	104	101	16-163	3	50				
p,p-DDE	98	92	18-161	7	50				
p,p-DDT	138	106	10-176	16	50				
Delta BHC	84	88	23-140	4	50				
Dieldrin	78	78	19-154	0	50				
Endosulfan I	79	82	16-137	4	50				
Endosulfan II	86	87	28-154	2	50				
Endosulfan Sulfate	79	78	21-160	2	50				
Endrin	95	97	11-149	2	50				
Endrin Aldehyde	73	73	10-148	0	35				
Endrin Ketone	81	92	22-165	13	50				
Heptachlor	78	76	13-126	3	50				
Heptachlor Epoxide	87	84	13-157	4	50				
Methoxychlor	102	101	32-147	1	50				
Batch number: 103560019A	Sample number(s): 6162775,6162786-6162787,6162789,6162792 UNSPK: P162822								
Aldrin	79	82	16-126	4	50				
Alpha BHC	55	55	10-129	0	50				
Beta BHC	53	53	14-147	0	50				
Gamma BHC - Lindane	55	61	10-140	11	50				
p,p-DDD	63	67	16-163	7	50				
p,p-DDE	83	91	18-161	9	50				
p,p-DDT	34	68	10-176	67*	50				
Delta BHC	56	63	23-140	11	50				
Dieldrin	55	68	19-154	22	50				
Endosulfan I	55	55	16-137	0	50				
Endosulfan II	66	75	28-154	13	50				
Endosulfan Sulfate	78	65	21-160	19	50				
Endrin	61	53	11-149	13	50				
Endrin Aldehyde	55	47	10-148	15	35				
Endrin Ketone	64	47	22-165	21	50				
Heptachlor	52	61	13-126	16	50				
Heptachlor Epoxide	73	61	13-157	18	50				
Methoxychlor	48	40	32-147	20	50				
Batch number: 103481026001A	Sample number(s): 6162774-6162792 UNSPK: 6162774 BKG: 6162774								
Antimony	29*	28*	75-125	0	20	0.0857 J	0.0629 J	31* (1)	20
Arsenic	108	112	75-125	2	20	3.74	3.67	2	20
Beryllium	90	87	75-125	1	20	0.422	0.485	14 (1)	20
Cadmium	108	102	75-125	3	20	0.0790 J	0.0948 J	18 (1)	20
Chromium	97	100	75-125	2	20	13.6	15.3	11	20
Cobalt	87	89	75-125	4	20	4.43	4.75	7	20
Copper	91	89	75-125	0	20	7.02	9.14	26*	20
Lead	109	106	75-125	0	20	4.94	5.31	7	20
Nickel	89	91	75-125	2	20	8.30	8.66	4	20
Silver	103	102	75-125	0	20	0.0191 J	0.0190 J	0 (1)	20
Thallium	101	102	75-125	2	20	0.217	0.260	18 (1)	20
Vanadium	108	102	75-125	1	20	27.1	27.9	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Zinc	149 (2)	142 (2)	75-125	1	20	47.0	52.3	11	20
Batch number: 103481026001B	Sample number(s): 6162774-6162792 UNSPK: 6162774 BKG: 6162774								
Selenium	83	91	75-125	10	20	0.108 J	0.100 J	7 (1)	20
Batch number: 103481026001C	Sample number(s): 6162774-6162792 UNSPK: 6162774 BKG: 6162774								
Molybdenum	98	96	75-125	1	20	0.513	0.641	22*	20
Batch number: 103481026001D	Sample number(s): 6162774-6162792 UNSPK: 6162774 BKG: 6162774								
Barium	126 (2)	55 (2)	75-125	8	20	79.9	84.3	5	20
Batch number: 103485708003	Sample number(s): 6162774-6162792 UNSPK: 6162774 BKG: 6162774								
Aluminum	2015 (2)	2449 (2)	75-125	5	20	12,300	13,000	6	20
Boron	93	95	84-115	0	20	11.0	11.0	0 (1)	20
Calcium	189 (2)	361 (2)	75-125	15	20	3,360	3,850	13	20
Iron	1637 (2)	1800 (2)	75-125	1	20	17,200	18,300	6	20
Lithium	102	103	82-114	0	20	17.5	18.4	5	20
Magnesium	289 (2)	282 (2)	75-125	0	20	3,710	3,960	7	20
Manganese	157 (2)	144 (2)	75-125	2	20	232	237	2	20
Phosphorus	103	77	75-125	6	20	342	326	5	20
Potassium	138*	134*	75-125	1	20	2,510	2,680	6	20
Sodium	98	97	75-125	2	20	212	208	2 (1)	20
Strontium	97	99	75-115	1	20	20.6	19.8	4	20
Tin	95	93	80-110	4	20	1.86 J	2.03 J	9 (1)	20
Zirconium	101	99	75-125	3	20	1.63 J	2.17 J	28* (1)	20
Batch number: 103485711002	Sample number(s): 6162774-6162792 UNSPK: 6162780 BKG: 6162780								
Mercury	92	92	65-135	5	20	0.0061 J	0.0073 J	18 (1)	20
Batch number: 103505708002	Sample number(s): 6162774-6162792 UNSPK: 6162785 BKG: 6162785								
Titanium	435 (2)	373 (2)	75-125	5	20	928	970	4	20
Batch number: 10350350201A	Sample number(s): 6162774-6162780 UNSPK: P158229 BKG: P158229								
11a Anions by 300.0 - Fluoride	91		80-120			3.5	3.6	2 (1)	20
Batch number: 10350350201B	Sample number(s): 6162781-6162790 UNSPK: 6162781 BKG: 6162781								
11a Anions by 300.0 - Fluoride	92		80-120			2.2	2.5	10 (1)	20
Batch number: 10351351201B	Sample number(s): 6162774-6162777 UNSPK: P158226 BKG: P158226								
7a Perchlorate EPA 314.0	105		80-120			15.6 J	9.0 U	200* (1)	15
Batch number: 10352352202A	Sample number(s): 6162778-6162787 UNSPK: 6162778 BKG: 6162778								
7a Perchlorate EPA 314.0	95		80-120			13.5 J	9.0 U	200* (1)	15
Batch number: 10352352202B	Sample number(s): 6162788-6162792 UNSPK: 6162788 BKG: 6162788								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	10.1 J	200* (1)	15
Batch number: 10355243202A	Sample number(s): 6162774-6162792 UNSPK: 6162774 BKG: 6162774								
3a Cr VI by EPA 7199	90		75-125			0.24 J	0.61 J	88* (1)	20
Batch number: 10361361201A	Sample number(s): 6162791-6162792 UNSPK: 6162791 BKG: 6162791								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
11a Anions by 300.0 - Fluoride	94		80-120			1.8	1.7	7 (1)	20
Batch number: 10347039402A	Sample number(s): 6162774-6162782					BKG: 6162774			
22a pH by 9045C						4.58	4.57	0	1
Batch number: 10347039402B	Sample number(s): 6162783-6162784					BKG: 6162783			
22a pH by 9045C						8.12	8.13	0	1
Batch number: 10347039403A	Sample number(s): 6162785-6162792					BKG: 6162785			
22a pH by 9045C						7.24	7.25	0	1
Batch number: 10347182102A	Sample number(s): 6162774			BKG: P159693					
Oxidation Reduction Potential						499	500	0	6
Batch number: 10347182102B	Sample number(s): 6162775-6162784					BKG: 6162775			
Oxidation Reduction Potential						431	431	0	6
Batch number: 10347182103A	Sample number(s): 6162785-6162792					BKG: 6162785			
Oxidation Reduction Potential						497	497	0	6
Batch number: 10347162402A	Sample number(s): 6162774-6162783					BKG: 6162777			
28a Moisture Content by 160.3						8.5	8.9	4	20
Batch number: 10347162402B	Sample number(s): 6162784-6162792					BKG: 6162789			
28a Moisture Content by 160.3						8.0	8.6	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10347SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162774	90	88	88	85	91	81
6162775	97	96	90	87	91	88
6162776	86	83	89	82	90	84
6162777	92	90	89	85	91	86
6162778	96	95	90	89	96	90
6162779	89	85	84	81	85	82
6162780	92	90	86	85	90	89
6162781	84	83	77	77	81	81
6162782	95	92	85	86	89	89
6162783	91	88	79	80	86	83
6162784	89	85	78	84	86	88
6162785	91	86	79	83	89	86
6162786	85	82	71	76	81	82
6162787	88	86	81	83	90	85
6162788	92	88	82	84	90	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Surrogate Quality Control

6162789	94	92	83	89	94	93
6162790	91	89	81	85	92	90
6162791	93	93	80	88	96	92
6162792	95	92	76	91	101	103
Blank	84	82	79	81	87	83
LCS	96	94	92	89	92	83
MS	93	91	92	87	90	87
MSD	92	88	88	84	89	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10348SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162774	93	81	132
6162775	94	87	108
6162776	106	94	117
6162777	105	92	104
6162778	88	77	86
6162779	71	74	79
6162780	102	90	87
6162781	97	107	113
6162782	103	93	102
6162783	110	89	111
6162784	97	106	118
6162785	95	86	104
6162786	95	94	90
6162787	93	86	87
6162788	100	94	104
6162789	105	92	103
6162790	108	115	135
6162791	149*	111	117
6162792	109	94	124
Blank	95	86	95
LCS	93	85	92
MS	95	88	95
MSD	106	94	101
Limits:	40-130	45-130	45-135

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103470012A

	2,4-Dichlorophenylacetic acid
6162774	93
6162775	81
6162776	97
6162777	99
6162778	96
6162779	89
6162780	92
6162781	105
6162782	95
6162783	87
6162784	101

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Surrogate Quality Control

6162785	97
6162786	98
6162787	106
6162788	84
6162789	102
6162790	84
6162791	107
6162792	97
Blank	81
LCS	93
MS	103
MSD	84
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103470022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162774	111	155*
6162775	81	79
6162776	81	84
6162777	100	106
6162778	116	121*
6162779	89	130*
6162780	102	103
6162781	102	108
6162782	116	108
6162783	96	87
6162784	91	96
6162785	103	98
6162786	102	102
6162787	99	91
6162788	82	81
6162789	103	89
6162790	92	86
6162791	93	81
6162792	113	82
Blank	94	111
LCS	95	111
LCSD	109	138*
MS	110	98
MSD	102	100
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103550005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162774	76	87
6162776	66	86
6162777	76	94
6162778	75	104
6162779	57	67
6162780	66	75
6162781	72	171*
6162782	52	64

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225031
Reported: 01/17/11 at 03:00 PM

Surrogate Quality Control

6162783	69	49
6162784	64	76
6162785	79	70
6162788	73	75
6162790	68	84
6162791	72	101
Blank	77	107
LCS	78	110
MS	73	110
MSD	63	99
Limits:	50-130	20-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103560019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162775	69	64
6162786	77	71
6162787	65	95
6162789	50	79
6162792	89	332*
Blank	78	86
LCS	84	101
MS	55	44
MSD	65	71
Limits:	50-130	20-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

dH 12/11/10 @

acct#13013 Gp# ~~1224189~~ 1225031 Sample# ~~6161089-100~~ 6162774-92

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-026-SA5B-SS-0.0-0.5	12/8/10	1125	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-026-SA5B-SS-0.0-0.5	12/8/10	1125	soil	none	1 stainless steel sleeve			X				X						
SL-038-SA5B-SS-0.0-0.5	12/8/10	1215	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-038-SA5B-SS-0.0-0.5	12/8/10	1215	soil	none	1 stainless steel sleeve			X				X						
SL-039-SA5B-SS-0.0-0.5	12/8/10	1048	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-039-SA5B-SS-0.0-0.5	12/8/10	1048	soil	none	1 stainless steel sleeve			X				X						
SL-280-SA5B-SS-0.0-0.5	12/8/10	1146	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-280-SA5B-SS-0.0-0.5	12/8/10	1146	soil	none	1 stainless steel sleeve			X				X						
SL-281-SA5B-SS-0.0-0.5	12/8/10	1025	soil	none	1 x 16 oz. jar				X	X	X		X	X	X	X	X	
SL-281-SA5B-SS-0.0-0.5	12/8/10	1025	soil	none	1 stainless steel sleeve			X				X						
SL-295-SA5B-SS-0.0-0.5	12/8/10	1034	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-295-SA5B-SS-0.0-0.5	12/8/10	1034	soil	none	1 stainless steel sleeve			X				X						
SL-296-SA5B-SS-0.0-0.5	12/8/10	1135	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-296-SA5B-SS-0.0-0.5	12/8/10	1135	soil	none	1 stainless steel sleeve			X				X						
SL-297-SA5B-SS-0.0-0.5	12/8/10	0935	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-297-SA5B-SS-0.0-0.5	12/8/10	0935	soil	none	1 stainless steel sleeve			X				X						

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.07.10 1630		12/10/10 915	Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Airbill No. 00732992 Tracking Number 869514317086		Cooler 3

acct# 13013 QP# ~~1224789~~ 1225031 DN 12/11/10 D Sample# ~~6161089-100~~ 6162774-92

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-308-SA5B-SS-0.0-0.5	12/8/10	1205	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-308-SA5B-SS-0.0-0.5	12/8/10	1205	soil	none	1 stainless steel sleeve			X				X						
SL-032-SA5B-SS-0.0-0.5	12/8/10	1455	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-032-SA5B-SS-0.0-0.5	12/8/10	1455	soil	none	1 stainless steel sleeve			X				X						
SL-282-SA5B-SS-0.0-0.5	12/8/10	1350	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-282-SA5B-SS-0.0-0.5	12/8/10	1350	soil	none	1 stainless steel sleeve			X				X						
SL-283-SA5B-SS-0.0-0.5	12/8/10	1325	soil	none	1 x 16 oz. jar				X	X	X		X	X	X	X	X	
SL-283-SA5B-SS-0.0-0.5	12/8/10	1325	soil	none	1 stainless steel sleeve			X				X						

RB 12/8/10

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.07.10 1630	12/10/10	915	Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Airbill No. 00732992 Tracking Number 869514317086		Cooler 3

acct# 13013 cp# 1225031 sample# 6162774-92 ~~6162274-92~~ JH 12/11/10 (3)

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLING

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-292-SA5B-SS-0.0-0.5	12/9/10	1025	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-292-SA5B-SS-0.0-0.5	12/9/10	1025	soil	none	1 stainless steel sleeve			X						X															
SL-293-SA5B-SS-0.0-0.5	12/9/10	0950	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-293-SA5B-SS-0.0-0.5	12/9/10	0950	soil	none	1 stainless steel sleeve			X						X															
~~SL-306-SA5B-SS-0.0-0.5~~	~~12/9/10~~	~~0927~~	~~soil~~	~~none~~	~~1 x 16 oz. jar~~						~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		~~X~~	~~X~~										Duplicate entry NLM 12/10/10
~~SL-306-SA5B-SS-0.0-0.5~~	~~12/9/10~~	~~0927~~	~~soil~~	~~none~~	~~1 stainless steel sleeve~~			~~X~~						~~X~~															
SL-231-SA5B-SS-0.0-0.5	12/9/10	1426	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-231-SA5B-SS-0.0-0.5	12/9/10	1426	soil	none	1 stainless steel sleeve			X						X															
SL-003-SA5B-SS-0.0-0.5	12/9/10	1352	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-003-SA5B-SS-0.0-0.5	12/9/10	1352	soil	none	1 stainless steel sleeve			X						X															
SL-230-SA5B-SS-0.0-0.5	12/9/10	1448	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-230-SA5B-SS-0.0-0.5	12/9/10	1448	soil	none	1 stainless steel sleeve			X						X															
SL-005-SA5B-SS-0.0-0.5	12/9/10	1425	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-005-SA5B-SS-0.0-0.5	12/9/10	1425	soil	none	1 stainless steel sleeve			X						X															
SL-004-SA5B-SS-0.0-0.5	12/9/10	1335	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-004-SA5B-SS-0.0-0.5	12/9/10	1335	soil	none	1 stainless steel sleeve			X						X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514317969	

Laboratory: Lancaster Laboratories, Inc.

Cooler 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 31, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/10/2010
Group Number: 1225032
SDG: DX015
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-026-SA5B-SS-0.0-0.5 Soil	6162793
SL-038-SA5B-SS-0.0-0.5 Soil	6162794
SL-039-SA5B-SS-0.0-0.5 Soil	6162795
SL-280-SA5B-SS-0.0-0.5 Soil	6162796
SL-281-SA5B-SS-0.0-0.5 Soil	6162797
SL-295-SA5B-SS-0.0-0.5 Soil	6162798
SL-296-SA5B-SS-0.0-0.5 Soil	6162799
SL-297-SA5B-SS-0.0-0.5 Soil	6162800
SL-308-SA5B-SS-0.0-0.5 Soil	6162801
SL-032-SA5B-SS-0.0-0.5 Soil	6162802
SL-282-SA5B-SS-0.0-0.5 Soil	6162803
SL-283-SA5B-SS-0.0-0.5 Soil	6162804
SL-292-SA5B-SS-0.0-0.5 Soil	6162805
SL-293-SA5B-SS-0.0-0.5 Soil	6162806
SL-231-SA5B-SS-0.0-0.5 Soil	6162807
SL-003-SA5B-SS-0.0-0.5 Soil	6162808
SL-230-SA5B-SS-0.0-0.5 Soil	6162809
SL-005-SA5B-SS-0.0-0.5 Soil	6162810
SL-004-SA5B-SS-0.0-0.5 Soil	6162811

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

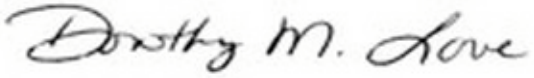

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-026-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162793
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1501 SDG#: DX015-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162793
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1501 SDG#: DX015-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0323	JQ	0.0199	1.07	1
11031	12378-PeCDD	40321-76-4	0.152	JBQ	0.0269	5.35	1
11031	123478-HxCDD	39227-28-6	0.0993	JB	0.0302	5.35	1
11031	123678-HxCDD	57653-85-7	0.344	JB	0.0323	5.35	1
11031	123789-HxCDD	19408-74-3	0.354	JBQ	0.0313	5.35	1
11031	1234678-HpCDD	35822-46-9	6.96	B	0.0436	5.35	1
11031	OCDD	3268-87-9	78.3	B	0.0458	10.7	1
11031	2378-TCDF	51207-31-9	0.0585	JBQ	0.0255	1.07	1
11031	12378-PeCDF	57117-41-6	0.212	JB	0.0136	5.35	1
11031	23478-PeCDF	57117-31-4	0.250	JB	0.0125	5.35	1
11031	123478-HxCDF	70648-26-9	0.210	JBQ	0.0251	5.35	1
11031	123678-HxCDF	57117-44-9	0.187	JBQ	0.0233	5.35	1
11031	123789-HxCDF	72918-21-9	0.198	JBQ	0.0287	5.35	1
11031	234678-HxCDF	60851-34-5	0.227	JB	0.0248	5.35	1
11031	1234678-HpCDF	67562-39-4	1.36	JB	0.0289	5.35	1
11031	1234789-HpCDF	55673-89-7	0.195	JB	0.0372	5.35	1
11031	OCDF	39001-02-0	2.30	JB	0.0260	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162793
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1501 SDG#: DX015-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-026-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SS-0.0-0.5

LLI Sample # SW 6162793
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1501 SDG#: DX015-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/22/2010 16:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

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Analysis Report

Sample Description: **SL-038-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162794
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1502 SDG#: DX015-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-038-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162794
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1502 SDG#: DX015-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0293	JQ	0.0273	1.10	1
11031	12378-PeCDD	40321-76-4	0.144	JBQ	0.0376	5.48	1
11031	123478-HxCDD	39227-28-6	0.133	JBQ	0.0383	5.48	1
11031	123678-HxCDD	57653-85-7	0.419	JB	0.0390	5.48	1
11031	123789-HxCDD	19408-74-3	0.302	JBQ	0.0384	5.48	1
11031	1234678-HpCDD	35822-46-9	9.15	B	0.0556	5.48	1
11031	OCDD	3268-87-9	98.6	B	0.0468	11.0	1
11031	2378-TCDF	51207-31-9	0.0293	U	0.0293	1.10	1
11031	12378-PeCDF	57117-41-6	0.165	JBQ	0.0169	5.48	1
11031	23478-PeCDF	57117-31-4	0.213	JBQ	0.0156	5.48	1
11031	123478-HxCDF	70648-26-9	0.181	JBQ	0.0281	5.48	1
11031	123678-HxCDF	57117-44-9	0.170	JB	0.0257	5.48	1
11031	123789-HxCDF	72918-21-9	0.163	JB	0.0304	5.48	1
11031	234678-HxCDF	60851-34-5	0.267	JB	0.0268	5.48	1
11031	1234678-HpCDF	67562-39-4	1.76	JB	0.0258	5.48	1
11031	1234789-HpCDF	55673-89-7	0.239	JB	0.0322	5.48	1
11031	OCDF	39001-02-0	3.09	JB	0.0366	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	60	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162794
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1502 SDG#: DX015-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5B-SS-0.0-0.5

LLI Sample # SW 6162794
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1502 SDG#: DX015-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/22/2010 17:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

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Analysis Report

Sample Description: **SL-039-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162795
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1503 SDG#: DX015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162795
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1503 SDG#: DX015-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226	U	0.0226	1.09	1
11031	12378-PeCDD	40321-76-4	0.0812	JBQ	0.0309	5.46	1
11031	123478-HxCDD	39227-28-6	0.0863	JBQ	0.0293	5.46	1
11031	123678-HxCDD	57653-85-7	0.368	JB	0.0313	5.46	1
11031	123789-HxCDD	19408-74-3	0.301	JBQ	0.0295	5.46	1
11031	1234678-HpCDD	35822-46-9	9.69	B	0.0534	5.46	1
11031	OCDD	3268-87-9	130	B	0.0532	10.9	1
11031	2378-TCDF	51207-31-9	0.0596	JBQ	0.0267	1.09	1
11031	12378-PeCDF	57117-41-6	0.129	JBQ	0.0164	5.46	1
11031	23478-PeCDF	57117-31-4	0.303	JB	0.0166	5.46	1
11031	123478-HxCDF	70648-26-9	0.327	JBQ	0.0272	5.46	1
11031	123678-HxCDF	57117-44-9	0.265	JB	0.0247	5.46	1
11031	123789-HxCDF	72918-21-9	0.233	JBQ	0.0311	5.46	1
11031	234678-HxCDF	60851-34-5	0.521	JB	0.0261	5.46	1
11031	1234678-HpCDF	67562-39-4	2.22	JB	0.0230	5.46	1
11031	1234789-HpCDF	55673-89-7	0.317	JBQ	0.0322	5.46	1
11031	OCDF	39001-02-0	3.05	JB	0.0296	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162795
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1503 SDG#: DX015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SS-0.0-0.5

LLI Sample # SW 6162795
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:48

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1503 SDG#: DX015-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/22/2010 18:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-280-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162796
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1504 SDG#: DX015-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-280-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162796
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1504 SDG#: DX015-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226	U	0.0226	1.09	1
11031	12378-PeCDD	40321-76-4	0.138	JBQ	0.0345	5.46	1
11031	123478-HxCDD	39227-28-6	0.142	JB	0.0402	5.46	1
11031	123678-HxCDD	57653-85-7	0.685	JB	0.0410	5.46	1
11031	123789-HxCDD	19408-74-3	0.378	JBQ	0.0398	5.46	1
11031	1234678-HpCDD	35822-46-9	15.6	B	0.0621	5.46	1
11031	OCDD	3268-87-9	227	B	0.0622	10.9	1
11031	2378-TCDF	51207-31-9	0.0449	JBQ	0.0314	1.09	1
11031	12378-PeCDF	57117-41-6	0.136	JBQ	0.0168	5.46	1
11031	23478-PeCDF	57117-31-4	0.266	JBQ	0.0161	5.46	1
11031	123478-HxCDF	70648-26-9	0.318	JBQ	0.0299	5.46	1
11031	123678-HxCDF	57117-44-9	0.274	JBQ	0.0277	5.46	1
11031	123789-HxCDF	72918-21-9	0.199	JBQ	0.0342	5.46	1
11031	234678-HxCDF	60851-34-5	0.483	JB	0.0296	5.46	1
11031	1234678-HpCDF	67562-39-4	3.05	JB	0.0279	5.46	1
11031	1234789-HpCDF	55673-89-7	0.289	JB	0.0362	5.46	1
11031	OCDF	39001-02-0	4.77	JB	0.0289	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-280-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162796
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1504 SDG#: DX015-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-280-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SS-0.0-0.5

LLI Sample # SW 6162796
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:46

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1504 SDG#: DX015-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/22/2010 19:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-281-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162797
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1505 SDG#: DX015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-281-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162797
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1505 SDG#: DX015-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0245	U	0.0245	1.11	1
11031	12378-PeCDD	40321-76-4	0.181	JBQ	0.0384	5.55	1
11031	123478-HxCDD	39227-28-6	0.170	JB	0.0377	5.55	1
11031	123678-HxCDD	57653-85-7	0.412	JBQ	0.0398	5.55	1
11031	123789-HxCDD	19408-74-3	0.285	JBQ	0.0380	5.55	1
11031	1234678-HpCDD	35822-46-9	9.51	B	0.0538	5.55	1
11031	OCDD	3268-87-9	97.1	B	0.0491	11.1	1
11031	2378-TCDF	51207-31-9	0.0842	JB	0.0364	1.11	1
11031	12378-PeCDF	57117-41-6	0.239	JB	0.0211	5.55	1
11031	23478-PeCDF	57117-31-4	0.516	JB	0.0190	5.55	1
11031	123478-HxCDF	70648-26-9	0.254	JB	0.0283	5.55	1
11031	123678-HxCDF	57117-44-9	0.217	JBQ	0.0265	5.55	1
11031	123789-HxCDF	72918-21-9	0.167	JBQ	0.0313	5.55	1
11031	234678-HxCDF	60851-34-5	0.344	JB	0.0275	5.55	1
11031	1234678-HpCDF	67562-39-4	2.61	JB	0.0317	5.55	1
11031	1234789-HpCDF	55673-89-7	0.306	JBQ	0.0400	5.55	1
11031	OCDF	39001-02-0	4.58	JB	0.0326	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-281-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162797
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1505 SDG#: DX015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-281-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SS-0.0-0.5

LLI Sample # SW 6162797
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1505 SDG#: DX015-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/22/2010 20:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

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Analysis Report

Sample Description: **SL-295-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162798
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1506 SDG#: DX015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-295-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162798
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1506 SDG#: DX015-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0266	U	0.0266	1.10	1
11031	12378-PeCDD	40321-76-4	0.0765	JBQ	0.0488	5.49	1
11031	123478-HxCDD	39227-28-6	0.0838	JBQ	0.0346	5.49	1
11031	123678-HxCDD	57653-85-7	0.384	JB	0.0351	5.49	1
11031	123789-HxCDD	19408-74-3	0.352	JBQ	0.0365	5.49	1
11031	1234678-HpCDD	35822-46-9	6.07	B	0.0533	5.49	1
11031	OCDD	3268-87-9	61.4	B	0.0662	11.0	1
11031	2378-TCDF	51207-31-9	0.0530	JBQ	0.0367	1.10	1
11031	12378-PeCDF	57117-41-6	0.135	JBQ	0.0213	5.49	1
11031	23478-PeCDF	57117-31-4	0.212	JBQ	0.0201	5.49	1
11031	123478-HxCDF	70648-26-9	0.232	JBQ	0.0341	5.49	1
11031	123678-HxCDF	57117-44-9	0.222	JBQ	0.0319	5.49	1
11031	123789-HxCDF	72918-21-9	0.229	JBQ	0.0412	5.49	1
11031	234678-HxCDF	60851-34-5	0.358	JB	0.0325	5.49	1
11031	1234678-HpCDF	67562-39-4	1.66	JB	0.0477	5.49	1
11031	1234789-HpCDF	55673-89-7	0.245	JBQ	0.0638	5.49	1
11031	OCDF	39001-02-0	2.11	JB	0.0469	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-295-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162798
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1506 SDG#: DX015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-295-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SS-0.0-0.5

LLI Sample # SW 6162798
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:34

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1506 SDG#: DX015-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/22/2010 21:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-296-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162799
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1507 SDG#: DX015-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-296-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162799
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1507 SDG#: DX015-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0205	U	0.0205	1.09	1
11031	12378-PeCDD	40321-76-4	0.104	JB	0.0303	5.45	1
11031	123478-HxCDD	39227-28-6	0.0563	JB	0.0297	5.45	1
11031	123678-HxCDD	57653-85-7	0.239	JBQ	0.0303	5.45	1
11031	123789-HxCDD	19408-74-3	0.231	JB	0.0325	5.45	1
11031	1234678-HpCDD	35822-46-9	6.14	B	0.0416	5.45	1
11031	OCDD	3268-87-9	62.9	B	0.0479	10.9	1
11031	2378-TCDF	51207-31-9	0.0303	JBQ	0.0227	1.09	1
11031	12378-PeCDF	57117-41-6	0.101	JB	0.0150	5.45	1
11031	23478-PeCDF	57117-31-4	0.138	JB	0.0135	5.45	1
11031	123478-HxCDF	70648-26-9	0.168	JBQ	0.0209	5.45	1
11031	123678-HxCDF	57117-44-9	0.139	JB	0.0198	5.45	1
11031	123789-HxCDF	72918-21-9	0.169	JBQ	0.0264	5.45	1
11031	234678-HxCDF	60851-34-5	0.218	JB	0.0205	5.45	1
11031	1234678-HpCDF	67562-39-4	1.24	JB	0.0215	5.45	1
11031	1234789-HpCDF	55673-89-7	0.193	JBQ	0.0312	5.45	1
11031	OCDF	39001-02-0	2.13	JB	0.0318	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-296-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162799
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1507 SDG#: DX015-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-296-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SS-0.0-0.5

LLI Sample # SW 6162799
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1507 SDG#: DX015-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/22/2010 22:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-297-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162800
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1508 SDG#: DX015-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-297-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162800
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1508 SDG#: DX015-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0905	JQ	0.0223	1.11	1
11031	12378-PeCDD	40321-76-4	0.317	JBQ	0.0386	5.57	1
11031	123478-HxCDD	39227-28-6	0.250	JBQ	0.0459	5.57	1
11031	123678-HxCDD	57653-85-7	0.689	JB	0.0488	5.57	1
11031	123789-HxCDD	19408-74-3	0.496	JB	0.0443	5.57	1
11031	1234678-HpCDD	35822-46-9	14.1	B	0.0609	5.57	1
11031	OCDD	3268-87-9	169	B	0.0606	11.1	1
11031	2378-TCDF	51207-31-9	0.0890	JB	0.0308	1.11	1
11031	12378-PeCDF	57117-41-6	0.261	JBQ	0.0219	5.57	1
11031	23478-PeCDF	57117-31-4	0.397	JB	0.0197	5.57	1
11031	123478-HxCDF	70648-26-9	0.401	JB	0.0344	5.57	1
11031	123678-HxCDF	57117-44-9	0.391	JBQ	0.0334	5.57	1
11031	123789-HxCDF	72918-21-9	0.313	JBQ	0.0371	5.57	1
11031	234678-HxCDF	60851-34-5	0.641	JB	0.0333	5.57	1
11031	1234678-HpCDF	67562-39-4	3.45	JB	0.0487	5.57	1
11031	1234789-HpCDF	55673-89-7	0.428	JBQ	0.0580	5.57	1
11031	OCDF	39001-02-0	5.29	JB	0.0371	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-297-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162800
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1508 SDG#: DX015-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-297-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SS-0.0-0.5

LLI Sample # SW 6162800
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1508 SDG#: DX015-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 02:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162801
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1509 SDG#: DX015-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-308-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162801
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1509 SDG#: DX015-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0507	JQ	0.0230	1.09	1
11031	12378-PeCDD	40321-76-4	0.195	JBQ	0.0344	5.46	1
11031	123478-HxCDD	39227-28-6	0.119	JBQ	0.0442	5.46	1
11031	123678-HxCDD	57653-85-7	0.299	JB	0.0447	5.46	1
11031	123789-HxCDD	19408-74-3	0.337	JBQ	0.0443	5.46	1
11031	1234678-HpCDD	35822-46-9	9.36	B	0.0619	5.46	1
11031	OCDD	3268-87-9	87.7	B	0.0643	10.9	1
11031	2378-TCDF	51207-31-9	0.0578	JBQ	0.0288	1.09	1
11031	12378-PeCDF	57117-41-6	0.211	JB	0.0168	5.46	1
11031	23478-PeCDF	57117-31-4	0.237	JB	0.0169	5.46	1
11031	123478-HxCDF	70648-26-9	0.210	JBQ	0.0316	5.46	1
11031	123678-HxCDF	57117-44-9	0.199	JB	0.0290	5.46	1
11031	123789-HxCDF	72918-21-9	0.275	JBQ	0.0359	5.46	1
11031	234678-HxCDF	60851-34-5	0.296	JB	0.0308	5.46	1
11031	1234678-HpCDF	67562-39-4	1.56	JB	0.0300	5.46	1
11031	1234789-HpCDF	55673-89-7	0.255	JBQ	0.0430	5.46	1
11031	OCDF	39001-02-0	3.01	JB	0.0474	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162801
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1509 SDG#: DX015-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SS-0.0-0.5

LLI Sample # SW 6162801
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:05

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1509 SDG#: DX015-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 03:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162802
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1510 SDG#: DX015-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162802
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1510 SDG#: DX015-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0206	U	0.0206	1.08	1
11031	12378-PeCDD	40321-76-4	0.0889	JB	0.0303	5.42	1
11031	123478-HxCDD	39227-28-6	0.106	JBQ	0.0329	5.42	1
11031	123678-HxCDD	57653-85-7	0.399	JBQ	0.0332	5.42	1
11031	123789-HxCDD	19408-74-3	0.306	JBQ	0.0336	5.42	1
11031	1234678-HpCDD	35822-46-9	12.1	B	0.0535	5.42	1
11031	OCDD	3268-87-9	126	B	0.0599	10.8	1
11031	2378-TCDF	51207-31-9	0.0314	JBQ	0.0270	1.08	1
11031	12378-PeCDF	57117-41-6	0.153	JBQ	0.0144	5.42	1
11031	23478-PeCDF	57117-31-4	0.209	JB	0.0133	5.42	1
11031	123478-HxCDF	70648-26-9	0.244	JB	0.0247	5.42	1
11031	123678-HxCDF	57117-44-9	0.185	JB	0.0217	5.42	1
11031	123789-HxCDF	72918-21-9	0.186	JBQ	0.0295	5.42	1
11031	234678-HxCDF	60851-34-5	0.305	JB	0.0235	5.42	1
11031	1234678-HpCDF	67562-39-4	1.76	JB	0.0195	5.42	1
11031	1234789-HpCDF	55673-89-7	0.207	JB	0.0303	5.42	1
11031	OCDF	39001-02-0	3.05	JB	0.0345	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162802
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1510 SDG#: DX015-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SS-0.0-0.5

LLI Sample # SW 6162802
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:55

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1510 SDG#: DX015-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 04:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402A	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-282-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162803
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1511 SDG#: DX015-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-282-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162803
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1511 SDG#: DX015-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0190	U	0.0190	1.08	1
11031	12378-PeCDD	40321-76-4	0.0347	U	0.0347	5.41	1
11031	123478-HxCDD	39227-28-6	0.0574	JBQ	0.0277	5.41	1
11031	123678-HxCDD	57653-85-7	0.344	JB	0.0285	5.41	1
11031	123789-HxCDD	19408-74-3	0.341	JBQ	0.0289	5.41	1
11031	1234678-HpCDD	35822-46-9	12.4	B	0.0435	5.41	1
11031	OCDD	3268-87-9	186	B	0.0426	10.8	1
11031	2378-TCDF	51207-31-9	0.0479	JBQ	0.0305	1.08	1
11031	12378-PeCDF	57117-41-6	0.159	JB	0.0158	5.41	1
11031	23478-PeCDF	57117-31-4	0.285	JBQ	0.0153	5.41	1
11031	123478-HxCDF	70648-26-9	0.266	JB	0.0237	5.41	1
11031	123678-HxCDF	57117-44-9	0.265	JB	0.0213	5.41	1
11031	123789-HxCDF	72918-21-9	0.261	JBQ	0.0278	5.41	1
11031	234678-HxCDF	60851-34-5	0.390	JB	0.0223	5.41	1
11031	1234678-HpCDF	67562-39-4	2.16	JB	0.0208	5.41	1
11031	1234789-HpCDF	55673-89-7	0.264	JBQ	0.0299	5.41	1
11031	OCDF	39001-02-0	3.76	JB	0.0231	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-282-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162803
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1511 SDG#: DX015-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-282-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SS-0.0-0.5

LLI Sample # SW 6162803
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1511 SDG#: DX015-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 05:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

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Analysis Report

Sample Description: **SL-283-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162804
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1512 SDG#: DX015-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-283-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162804
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1512 SDG#: DX015-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0188	U	0.0188	1.09	1
11031	12378-PeCDD	40321-76-4	0.0900	JBQ	0.0280	5.46	1
11031	123478-HxCDD	39227-28-6	0.126	JBQ	0.0315	5.46	1
11031	123678-HxCDD	57653-85-7	0.495	JB	0.0319	5.46	1
11031	123789-HxCDD	19408-74-3	0.382	JB	0.0319	5.46	1
11031	1234678-HpCDD	35822-46-9	14.6	B	0.0574	5.46	1
11031	OCDD	3268-87-9	191	B	0.0484	10.9	1
11031	2378-TCDF	51207-31-9	0.0401	JBQ	0.0222	1.09	1
11031	12378-PeCDF	57117-41-6	0.105	JBQ	0.0138	5.46	1
11031	23478-PeCDF	57117-31-4	0.192	JB	0.0134	5.46	1
11031	123478-HxCDF	70648-26-9	0.196	JBQ	0.0223	5.46	1
11031	123678-HxCDF	57117-44-9	0.187	JBQ	0.0200	5.46	1
11031	123789-HxCDF	72918-21-9	0.147	JBQ	0.0263	5.46	1
11031	234678-HxCDF	60851-34-5	0.336	JB	0.0217	5.46	1
11031	1234678-HpCDF	67562-39-4	2.22	JB	0.0234	5.46	1
11031	1234789-HpCDF	55673-89-7	0.290	JBQ	0.0352	5.46	1
11031	OCDF	39001-02-0	5.04	JB	0.0302	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-283-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162804
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1512 SDG#: DX015-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-283-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SS-0.0-0.5

LLI Sample # SW 6162804
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1512 SDG#: DX015-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 05:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

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Analysis Report

Sample Description: **SL-292-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162805
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1513 SDG#: DX015-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-292-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162805
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1513 SDG#: DX015-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0537	JQ	0.0255	1.07	1
11031	12378-PeCDD	40321-76-4	0.798	JBQ	0.0644	5.33	1
11031	123478-HxCDD	39227-28-6	1.68	JB	0.0654	5.33	1
11031	123678-HxCDD	57653-85-7	7.60	B	0.0684	5.33	1
11031	123789-HxCDD	19408-74-3	3.39	JB	0.0698	5.33	1
11031	1234678-HpCDD	35822-46-9	265	B	0.193	5.33	1
11031	OCDD	3268-87-9	4,430	EB	0.182	10.7	1
11031	2378-TCDF	51207-31-9	0.0795	JB	0.0321	1.07	1
11031	12378-PeCDF	57117-41-6	0.356	JBQ	0.0248	5.33	1
11031	23478-PeCDF	57117-31-4	0.623	JB	0.0257	5.33	1
11031	123478-HxCDF	70648-26-9	2.03	JB	0.0557	5.33	1
11031	123678-HxCDF	57117-44-9	1.42	JB	0.0517	5.33	1
11031	123789-HxCDF	72918-21-9	0.790	JB	0.0688	5.33	1
11031	234678-HxCDF	60851-34-5	1.65	JB	0.0539	5.33	1
11031	1234678-HpCDF	67562-39-4	43.0	B	0.0485	5.33	1
11031	1234789-HpCDF	55673-89-7	3.17	JB	0.0709	5.33	1
11031	OCDF	39001-02-0	153	B	0.0694	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-292-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162805
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1513 SDG#: DX015-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-292-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-292-SA5B-SS-0.0-0.5

LLI Sample # SW 6162805
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1513 SDG#: DX015-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 06:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-293-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162806
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1514 SDG#: DX015-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-293-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162806
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1514 SDG#: DX015-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0280	JQ	0.0242	1.12	1
11031	12378-PeCDD	40321-76-4	0.400	JB	0.0520	5.59	1
11031	123478-HxCDD	39227-28-6	0.724	JBQ	0.0501	5.59	1
11031	123678-HxCDD	57653-85-7	2.60	JB	0.0516	5.59	1
11031	123789-HxCDD	19408-74-3	1.60	JB	0.0506	5.59	1
11031	1234678-HpCDD	35822-46-9	81.7	B	0.124	5.59	1
11031	OCDD	3268-87-9	1,060	B	0.108	11.2	1
11031	2378-TCDF	51207-31-9	0.0582	JBQ	0.0334	1.12	1
11031	12378-PeCDF	57117-41-6	0.175	JBQ	0.0223	5.59	1
11031	23478-PeCDF	57117-31-4	0.261	JBQ	0.0204	5.59	1
11031	123478-HxCDF	70648-26-9	0.686	JB	0.0379	5.59	1
11031	123678-HxCDF	57117-44-9	0.470	JB	0.0357	5.59	1
11031	123789-HxCDF	72918-21-9	0.325	JB	0.0421	5.59	1
11031	234678-HxCDF	60851-34-5	0.736	JB	0.0367	5.59	1
11031	1234678-HpCDF	67562-39-4	11.7	B	0.0459	5.59	1
11031	1234789-HpCDF	55673-89-7	0.819	JB	0.0544	5.59	1
11031	OCDF	39001-02-0	38.9	B	0.0483	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-293-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162806
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1514 SDG#: DX015-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-293-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-293-SA5B-SS-0.0-0.5

LLI Sample # SW 6162806
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1514 SDG#: DX015-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 07:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162807
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1515 SDG#: DX015-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162807
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1515 SDG#: DX015-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0294	JQ	0.0184	1.04	1
11031	12378-PeCDD	40321-76-4	0.300	JB	0.0358	5.22	1
11031	123478-HxCDD	39227-28-6	0.475	JB	0.0382	5.22	1
11031	123678-HxCDD	57653-85-7	1.38	JB	0.0397	5.22	1
11031	123789-HxCDD	19408-74-3	1.10	JB	0.0373	5.22	1
11031	1234678-HpCDD	35822-46-9	37.7	B	0.0782	5.22	1
11031	OCDD	3268-87-9	585	B	0.0926	10.4	1
11031	2378-TCDF	51207-31-9	0.0427	JBQ	0.0241	1.04	1
11031	12378-PeCDF	57117-41-6	0.117	JBQ	0.0161	5.22	1
11031	23478-PeCDF	57117-31-4	0.288	JB	0.0153	5.22	1
11031	123478-HxCDF	70648-26-9	0.495	JB	0.0305	5.22	1
11031	123678-HxCDF	57117-44-9	0.354	JBQ	0.0286	5.22	1
11031	123789-HxCDF	72918-21-9	0.210	JBQ	0.0331	5.22	1
11031	234678-HxCDF	60851-34-5	0.564	JB	0.0297	5.22	1
11031	1234678-HpCDF	67562-39-4	5.34	B	0.0235	5.22	1
11031	1234789-HpCDF	55673-89-7	0.575	JB	0.0280	5.22	1
11031	OCDF	39001-02-0	11.8	B	0.0296	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162807
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1515 SDG#: DX015-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-231-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-231-SA5B-SS-0.0-0.5

LLI Sample # SW 6162807
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:26

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1515 SDG#: DX015-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 08:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

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Analysis Report

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162808
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1516 SDG#: DX015-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162808
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1516 SDG#: DX015-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0222	U	0.0222	1.09	1
11031	12378-PeCDD	40321-76-4	0.697	JB	0.0538	5.43	1
11031	123478-HxCDD	39227-28-6	1.34	JB	0.0391	5.43	1
11031	123678-HxCDD	57653-85-7	2.71	JB	0.0402	5.43	1
11031	123789-HxCDD	19408-74-3	2.79	JB	0.0402	5.43	1
11031	1234678-HpCDD	35822-46-9	84.0	B	0.110	5.43	1
11031	OCDD	3268-87-9	1,050	B	0.0907	10.9	1
11031	2378-TCDF	51207-31-9	0.0585	JBQ	0.0279	1.09	1
11031	12378-PeCDF	57117-41-6	0.249	JB	0.0193	5.43	1
11031	23478-PeCDF	57117-31-4	0.364	JB	0.0178	5.43	1
11031	123478-HxCDF	70648-26-9	0.776	JB	0.0362	5.43	1
11031	123678-HxCDF	57117-44-9	0.918	JB	0.0332	5.43	1
11031	123789-HxCDF	72918-21-9	0.263	JBQ	0.0405	5.43	1
11031	234678-HxCDF	60851-34-5	1.21	JB	0.0343	5.43	1
11031	1234678-HpCDF	67562-39-4	14.5	B	0.0298	5.43	1
11031	1234789-HpCDF	55673-89-7	1.14	JB	0.0377	5.43	1
11031	OCDF	39001-02-0	28.4	B	0.0349	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162808
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1516 SDG#: DX015-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5B-SS-0.0-0.5

LLI Sample # SW 6162808
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1516 SDG#: DX015-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 09:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162809
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1517 SDG#: DX015-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162809
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1517 SDG#: DX015-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.200	JQ	0.0313	1.11	1
11031	12378-PeCDD	40321-76-4	1.18	JB	0.0680	5.56	1
11031	123478-HxCDD	39227-28-6	2.02	JB	0.0495	5.56	1
11031	123678-HxCDD	57653-85-7	3.42	JB	0.0512	5.56	1
11031	123789-HxCDD	19408-74-3	4.24	JB	0.0524	5.56	1
11031	1234678-HpCDD	35822-46-9	91.0	B	0.104	5.56	1
11031	OCDD	3268-87-9	963	B	0.0891	11.1	1
11031	2378-TCDF	51207-31-9	0.0482	U	0.0482	1.11	1
11031	12378-PeCDF	57117-41-6	0.315	JB	0.0250	5.56	1
11031	23478-PeCDF	57117-31-4	0.600	JB	0.0226	5.56	1
11031	123478-HxCDF	70648-26-9	0.904	JBQ	0.0366	5.56	1
11031	123678-HxCDF	57117-44-9	1.27	JB	0.0353	5.56	1
11031	123789-HxCDF	72918-21-9	0.346	JB	0.0406	5.56	1
11031	234678-HxCDF	60851-34-5	1.65	JB	0.0354	5.56	1
11031	1234678-HpCDF	67562-39-4	18.3	B	0.0385	5.56	1
11031	1234789-HpCDF	55673-89-7	1.22	JB	0.0437	5.56	1
11031	OCDF	39001-02-0	36.8	B	0.0346	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162809
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1517 SDG#: DX015-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-230-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SS-0.0-0.5

LLI Sample # SW 6162809
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:48

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1517 SDG#: DX015-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 13:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162810
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1518 SDG#: DX015-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	4.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162810
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1518 SDG#: DX015-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.278	JQ	0.0387	1.05	1
11031	12378-PeCDD	40321-76-4	2.65	JB	0.102	5.25	1
11031	123478-HxCDD	39227-28-6	5.06	JB	0.0568	5.25	1
11031	123678-HxCDD	57653-85-7	8.68	B	0.0595	5.25	1
11031	123789-HxCDD	19408-74-3	10.7	B	0.0618	5.25	1
11031	1234678-HpCDD	35822-46-9	230	B	0.167	5.25	1
11031	OCDD	3268-87-9	2,610	B	0.198	10.5	1
11031	2378-TCDF	51207-31-9	0.213	JBQ	0.0541	1.05	1
11031	12378-PeCDF	57117-41-6	0.453	JB	0.0338	5.25	1
11031	23478-PeCDF	57117-31-4	0.891	JB	0.0313	5.25	1
11031	123478-HxCDF	70648-26-9	1.77	JB	0.0551	5.25	1
11031	123678-HxCDF	57117-44-9	2.87	JB	0.0534	5.25	1
11031	123789-HxCDF	72918-21-9	0.583	JB	0.0630	5.25	1
11031	234678-HxCDF	60851-34-5	3.82	JB	0.0541	5.25	1
11031	1234678-HpCDF	67562-39-4	40.7	B	0.0534	5.25	1
11031	1234789-HpCDF	55673-89-7	2.61	JB	0.0703	5.25	1
11031	OCDF	39001-02-0	98.4	B	0.0707	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162810
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1518 SDG#: DX015-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5B-SS-0.0-0.5

LLI Sample # SW 6162810
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1518 SDG#: DX015-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 14:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162811
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1519 SDG#: DX015-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162811
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1519 SDG#: DX015-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.150	JQ	0.0215	1.07	1
11031	12378-PeCDD	40321-76-4	1.90	JB	0.0620	5.37	1
11031	123478-HxCDD	39227-28-6	3.56	JB	0.0401	5.37	1
11031	123678-HxCDD	57653-85-7	6.30	B	0.0422	5.37	1
11031	123789-HxCDD	19408-74-3	8.24	B	0.0418	5.37	1
11031	1234678-HpCDD	35822-46-9	166	B	0.108	5.37	1
11031	OCDD	3268-87-9	1,730	B	0.117	10.7	1
11031	2378-TCDF	51207-31-9	0.114	JB	0.0320	1.07	1
11031	12378-PeCDF	57117-41-6	0.287	JBQ	0.0180	5.37	1
11031	23478-PeCDF	57117-31-4	0.561	JBQ	0.0161	5.37	1
11031	123478-HxCDF	70648-26-9	1.04	JB	0.0359	5.37	1
11031	123678-HxCDF	57117-44-9	1.78	JB	0.0347	5.37	1
11031	123789-HxCDF	72918-21-9	0.283	JB	0.0393	5.37	1
11031	234678-HxCDF	60851-34-5	2.73	JB	0.0349	5.37	1
11031	1234678-HpCDF	67562-39-4	29.2	B	0.0329	5.37	1
11031	1234789-HpCDF	55673-89-7	1.85	JB	0.0402	5.37	1
11031	OCDF	39001-02-0	64.9	B	0.0369	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162811
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1519 SDG#: DX015-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5B-SS-0.0-0.5

LLI Sample # SW 6162811
LLI Group # 1225032
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 09:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1519 SDG#: DX015-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10352001	12/23/2010 15:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10352001	12/18/2010 09:45	Deborah M Zimmerman	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10347162402B	12/14/2010 09:37	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225032
Reported: 12/31/10 at 09:52 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10347162402A	Sample number(s): 6162793-6162802								
28a Total Solids by 160.3					100		80-120		
Batch number: 10347162402B	Sample number(s): 6162803-6162811								
28a Total Solids by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10352001	Sample number(s): 6162793-6162811								
2378-TCDD	0.0212 U	0.0212	1.00	ng/kg	84		67-158		
12378-PeCDD	0.105 J	0.0225	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0584 J	0.0208	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0687 J	0.0215	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0974 J	0.0211	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.366 J	0.0275	5.00	ng/kg	89		70-140		
OCDD	0.537 J	0.0295	10.0	ng/kg	89		78-144		
2378-TCDF	0.0251 J	0.0180	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0949 J	0.0128	5.00	ng/kg	91		80-134		
23478-PeCDF	0.199 J	0.0124	5.00	ng/kg	92		68-160		
123478-HxCDF	0.174 J	0.0219	5.00	ng/kg	90		72-134		
123678-HxCDF	0.168 J	0.0207	5.00	ng/kg	88		84-130		
123789-HxCDF	0.179 J	0.0265	5.00	ng/kg	89		78-130		
234678-HxCDF	0.250 J	0.0219	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.846 J	0.0151	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.200 J	0.0214	5.00	ng/kg	87		78-138		
OCDF	0.628 J	0.0277	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10347162402A	Sample number(s): 6162793-6162802					BKG: P162777			
28a Total Solids by 160.3						8.5	8.9	4	20
Batch number: 10347162402B	Sample number(s): 6162803-6162811					BKG: P162789			
28a Total Solids by 160.3						8.0	8.6	7	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225032
Reported: 12/31/10 at 09:52 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 10352001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6162793	71	81	81	84	80	80
6162794	64	66	65	67	66	68
6162795	69	78	79	82	80	76
6162796	64	73	72	75	72	70
6162797	70	80	79	80	79	78
6162798	68	80	80	82	80	76
6162799	67	80	83	84	80	75
6162800	71	79	76	75	76	77
6162801	64	73	70	73	71	68
6162802	71	83	83	89	83	77
6162803	72	84	81	86	81	80
6162804	77	86	85	90	83	81
6162805	63	73	74	78	72	67
6162806	65	75	74	76	74	74
6162807	78	89	86	87	87	87
6162808	75	84	80	83	81	83
6162809	65	78	76	76	75	77
6162810	69	81	82	82	80	80
6162811	76	89	84	84	84	86
Blank	70	84	88	90	85	81
OPR	63	75	74	78	74	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6162793	84	77	73	75	75	78
6162794	69	64	62	60	62	61
6162795	86	76	73	73	75	77
6162796	78	71	67	68	69	69
6162797	77	74	67	75	74	75
6162798	85	75	67	74	76	77
6162799	88	76	69	73	75	77
6162800	75	72	66	71	74	70
6162801	77	66	61	69	70	68
6162802	96	76	69	79	79	79
6162803	95	83	76	75	80	77
6162804	96	75	67	79	82	79
6162805	86	69	64	68	71	70
6162806	76	79	74	68	71	68
6162807	90	91	85	79	83	80
6162808	84	82	76	77	80	77
6162809	76	77	74	69	72	70
6162810	77	74	62	75	74	75
6162811	85	85	79	80	84	79
Blank	95	81	78	80	80	83
OPR	83	71	68	69	71	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225032
Reported: 12/31/10 at 09:52 AM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6162793	75	75	76	73	74	81
6162794	62	63	64	63	64	67
6162795	75	75	77	75	71	81
6162796	67	67	69	68	66	73
6162797	73	74	71	64	73	79
6162798	76	76	74	70	71	80
6162799	78	74	76	71	73	79
6162800	68	70	70	63	73	75
6162801	67	67	66	64	68	74
6162802	79	78	78	75	75	87
6162803	78	78	82	82	75	85
6162804	80	80	79	74	81	90
6162805	69	69	71	71	67	77
6162806	69	68	71	72	69	74
6162807	79	80	85	84	82	89
6162808	77	77	78	77	77	84
6162809	70	69	72	70	69	74
6162810	74	73	69	58	75	77
6162811	79	79	79	75	80	85
Blank	82	80	82	81	74	82
OPR	69	69	72	70	64	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

JH 12/11/10 (L)

acct# 13013 Grp# ~~1224789~~ 1225032 Sample# ~~6161089-100~~ 6162793-811

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-026-SA5B-SS-0.0-0.5	12/8/10	1125	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-026-SA5B-SS-0.0-0.5	12/8/10	1125	soil	none	1 stainless steel sleeve			X				X						
SL-038-SA5B-SS-0.0-0.5	12/8/10	1215	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-038-SA5B-SS-0.0-0.5	12/8/10	1215	soil	none	1 stainless steel sleeve			X				X						
SL-039-SA5B-SS-0.0-0.5	12/8/10	1048	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-039-SA5B-SS-0.0-0.5	12/8/10	1048	soil	none	1 stainless steel sleeve			X				X						
SL-280-SA5B-SS-0.0-0.5	12/8/10	1146	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-280-SA5B-SS-0.0-0.5	12/8/10	1146	soil	none	1 stainless steel sleeve			X				X						
SL-281-SA5B-SS-0.0-0.5	12/8/10	1025	soil	none	1 x 16 oz. jar				X	X	X		X	X	X	X	X	
SL-281-SA5B-SS-0.0-0.5	12/8/10	1025	soil	none	1 stainless steel sleeve			X				X						
SL-295-SA5B-SS-0.0-0.5	12/8/10	1034	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-295-SA5B-SS-0.0-0.5	12/8/10	1034	soil	none	1 stainless steel sleeve			X				X						
SL-296-SA5B-SS-0.0-0.5	12/8/10	1135	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-296-SA5B-SS-0.0-0.5	12/8/10	1135	soil	none	1 stainless steel sleeve			X				X						
SL-297-SA5B-SS-0.0-0.5	12/8/10	0935	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-297-SA5B-SS-0.0-0.5	12/8/10	0935	soil	none	1 stainless steel sleeve			X				X						

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.07.10 1630		12/10/10 915	Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Airbill No.** 00732992 Tracking Number 869514317086		Cooler 3

Acct# 13013 Ap# ~~1224789~~ 1225032 JH 12/11/10 Sample# ~~6161089-100~~ 6162793-811

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-308-SA5B-SS-0.0-0.5	12/8/10	1205	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-308-SA5B-SS-0.0-0.5	12/8/10	1205	soil	none	1 stainless steel sleeve			X				X						
SL-032-SA5B-SS-0.0-0.5	12/8/10	1455	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-032-SA5B-SS-0.0-0.5	12/8/10	1455	soil	none	1 stainless steel sleeve			X				X						
SL-282-SA5B-SS-0.0-0.5	12/8/10	1350	soil	none	1 x 16 oz. jar				X	X	X		X	X		X	X	
SL-282-SA5B-SS-0.0-0.5	12/8/10	1350	soil	none	1 stainless steel sleeve			X				X						
SL-283-SA5B-SS-0.0-0.5	12/8/10	1325	soil	none	1 x 16 oz. jar				X	X	X		X	X	X	X	X	
SL-283-SA5B-SS-0.0-0.5	12/8/10	1325	soil	none	1 stainless steel sleeve			X				X						

JB 12/8/10

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.07.10 1630		12/10/10 915	Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Airbill No. 00732992 Tracking Number 869514317086		Cooler 3

acct# 13013 Qp# 1225032 sample# 6162793-811

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLING

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-292-SA5B-SS-0.0-0.5	12/9/10	1025	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X									
SL-292-SA5B-SS-0.0-0.5	12/9/10	1025	soil	none	1 stainless steel sleeve			X						X														
SL-293-SA5B-SS-0.0-0.5	12/9/10	0950	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X									
SL-293-SA5B-SS-0.0-0.5	12/9/10	0950	soil	none	1 stainless steel sleeve			X						X														
~~SL-306-SA5B-SS-0.0-0.5~~	~~12/9/10~~	~~0927~~	~~soil~~	~~none~~	~~1 x 16 oz. jar~~						X	X	X		X	X		X	X									Duplicate entry. NLM 12/10/10
~~SL-306-SA5B-SS-0.0-0.5~~	~~12/9/10~~	~~0927~~	~~soil~~	~~none~~	~~1 stainless steel sleeve~~			X						X														
SL-231-SA5B-SS-0.0-0.5	12/9/10	1426	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X									
SL-231-SA5B-SS-0.0-0.5	12/9/10	1426	soil	none	1 stainless steel sleeve			X						X														
SL-003-SA5B-SS-0.0-0.5	12/9/10	1352	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X									
SL-003-SA5B-SS-0.0-0.5	12/9/10	1352	soil	none	1 stainless steel sleeve			X						X														
SL-230-SA5B-SS-0.0-0.5	12/9/10	1448	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X									
SL-230-SA5B-SS-0.0-0.5	12/9/10	1448	soil	none	1 stainless steel sleeve			X						X														
SL-005-SA5B-SS-0.0-0.5	12/9/10	1425	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X									
SL-005-SA5B-SS-0.0-0.5	12/9/10	1425	soil	none	1 stainless steel sleeve			X						X														
SL-004-SA5B-SS-0.0-0.5	12/9/10	1335	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X									
SL-004-SA5B-SS-0.0-0.5	12/9/10	1335	soil	none	1 stainless steel sleeve			X						X														

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317969	

Laboratory: Lancaster Laboratories, Inc.

Cooler 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/10/2010
Group Number: 1225033
SDG: DE032
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-022-SA5B-SS-0.0-0.5 Soil	6162812
SL-031-SA5B-SS-0.0-0.5 Soil	6162813
SL-294-SA5B-SS-0.0-0.5 Soil	6162814
SL-307-SA5B-SS-0.0-0.5 Soil	6162815
DUP-01-SA5B-QC-120810 Soil	6162816
SL-011-SA5B-SS-0.0-0.5 Soil	6162817
SL-014-SA5B-SS-0.0-0.5 Soil	6162818
SL-001-SA5B-SS-0.0-0.5 Soil	6162819
SL-006-SA5B-SS-0.0-0.5 Soil	6162820
SL-010-SA5B-SS-0.0-0.5 Soil	6162821
SL-012-SA5B-SS-0.0-0.5 Soil	6162822
SL-012-SA5B-SS-0.0-0.5MS Soil	6162823
SL-012-SA5B-SS-0.0-0.5MSD Soil	6162824
SL-012-SA5B-SS-0.0-0.5DUP Soil	6162825
SL-013-SA5B-SS-0.0-0.5 Soil	6162826
SL-018-SA5B-SS-0.0-0.5 Soil	6162827
SL-020-SA5B-SS-0.0-0.5 Soil	6162828
SL-306-SA5B-SS-0.0-0.5 Soil	6162829
DUP-02-SA5B-QC-120910 Soil	6162830
SL-291-SA5B-SS-0.0-0.5 Soil	6162831
SL-002-SA5B-SS-0.0-0.5 Soil	6162832
SL-007-SA5B-SS-0.0-0.5 Soil	6162833

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Tracy A. Cole
Senior Specialist

Sample Description: **SL-022-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162812
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3201 SDG#: DE032-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	1.1	J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162812
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3201 SDG#: DE032-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.89
06192	Toluene	108-88-3	0.13	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		20.53
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	69.7		18.2	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162812
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3201 SDG#: DE032-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	22	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	27	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	3.8		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.0		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.2		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.1		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	9.1	J	6.6	20		1
10138	Chrysene	218-01-9	3.5		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33		6.6	20		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1

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Sample Description: **SL-022-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162812
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3201 SDG#: DE032-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.82	J	0.73	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1

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E3201 SDG#: DE032-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	1.4	U	1.4	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	260	J	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	3,600		660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	1.4	U	1.4	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix							

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E3201 SDG#: DE032-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	based on our experience with the site, and the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.0	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.1	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.4	U	4.4	13		10
10199	EFH (C15-C20)	n.a.	8.3	J	4.4	13		10
10199	EFH (C21-C30)	n.a.	36		4.4	13		10
10199	EFH (C30 - C40)	n.a.	110		4.4	13		10
10199	EFH (C8-C11)	n.a.	4.4	U	4.4	13		10
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162812
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E3201 SDG#: DE032-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		5.40	21.5		1
07914	Boron	7440-42-8	2.20	J	0.955	5.36		1
01650	Calcium	7440-70-2	5,280		6.58	21.5		1
01654	Iron	7439-89-6	21,400		5.05	21.5		1
01656	Lithium	7439-93-2	20.8		0.24	2.1		1
01657	Magnesium	7439-95-4	4,440		2.72	10.7		1
06958	Manganese	7439-96-5	261		0.0837	0.536		1
10145	Phosphorus	7723-14-0	420		0.601	10.7		1
01662	Potassium	7440-09-7	3,000		19.3	53.6		1
01667	Sodium	7440-23-5	167		40.0	107		1
07968	Strontium	7440-24-6	24.9		0.0665	0.536		1
06969	Tin	7440-31-5	2.57	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,260		2.04	5.36		5
10146	Zirconium	7440-67-7	1.76	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242		0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.76		0.0650	0.433		2
06126	Barium	7440-39-3	110		0.117	0.433		2
06127	Beryllium	7440-41-7	0.593		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.139		0.0390	0.108		2
06131	Chromium	7440-47-3	23.4		0.130	0.433		2
06132	Cobalt	7440-48-4	6.69		0.0217	0.108		2
06133	Copper	7440-50-8	9.28		0.0715	0.433		2
06135	Lead	7439-92-1	8.15		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.664		0.0542	0.108		2
06139	Nickel	7440-02-0	12.8		0.108	0.433		2
06141	Selenium	7782-49-2	0.161	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0183	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.351		0.0325	0.108		2
06148	Vanadium	7440-62-2	43.4		0.0238	0.108		2
06149	Zinc	7440-66-6	84.2		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162812
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Account # 13013

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E3201 SDG#: DE032-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.19	U	0.19	0.54		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.		n.a.	446		10.0	10.0		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.81		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.		n.a.	8.6		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	11:58	Nicholas R Rossi	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	13:59	Jason M Long	20.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823291	12/10/2010	12:55	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010	12:55	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010	12:55	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823291	12/10/2010	12:54	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10349SLE026	12/24/2010	17:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010	10:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010	13:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10349SLE026	12/16/2010	03:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162812
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3201 SDG#: DE032-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/14/2010 22:34	Marie D John	20.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823291	12/10/2010 12:55	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 14:35	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/15/2010 23:44	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/15/2010 21:46	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010 18:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 15:35	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 06:07	Heather E Williams	10
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 17:29	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 00:47	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103480030A	12/15/2010 23:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103480030A	12/15/2010 06:30	Joseph S Feister	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 01:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 01:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 13:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 01:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 13:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 13:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 01:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 13:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 13:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 13:09	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 13:05	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162812
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3201 SDG#: DE032-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 09:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 14:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 09:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 09:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 09:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 02:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10351351201A	12/19/2010 02:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/21/2010 00:53	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/27/2010 13:14	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201B	12/19/2010 16:01	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201B	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103A	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403A	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-031-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162813
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3202 SDG#: DE032-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162813
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3202 SDG#: DE032-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	5.2		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.7		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	8.7		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.4		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	5.0		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	5.7		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	2.7		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	4.5		0.73	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	2.0		0.67	1.8		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	250	J	83	270		1
10401	MCPP (Mecoprop)	93-65-2	180	U	180	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162813
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3202 SDG#: DE032-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.0	U	2.0	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.54	U	0.54	0.54		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.24	U	0.24	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.5	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.3	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.37	21.3		1
07914	Boron	7440-42-8	1.82	J	0.949	5.33		1
01650	Calcium	7440-70-2	4,280		6.54	21.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162813
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3202 SDG#: DE032-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,000		5.02	21.3		1
01656	Lithium	7439-93-2	23.9		0.23	2.1		1
01657	Magnesium	7439-95-4	4,660		2.71	10.7		1
06958	Manganese	7439-96-5	304		0.0832	0.533		1
10145	Phosphorus	7723-14-0	388		0.597	10.7		1
01662	Potassium	7440-09-7	3,080		19.2	53.3		1
01667	Sodium	7440-23-5	170		39.8	107		1
07968	Strontium	7440-24-6	26.6		0.0661	0.533		1
06969	Tin	7440-31-5	2.19	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,250		2.03	5.33		5
10146	Zirconium	7440-67-7	1.49	J	0.896	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.86		0.0640	0.427		2
06126	Barium	7440-39-3	120		0.115	0.427		2
06127	Beryllium	7440-41-7	0.643		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.146		0.0384	0.107		2
06131	Chromium	7440-47-3	28.7		0.128	0.427		2
06132	Cobalt	7440-48-4	9.15		0.0213	0.107		2
06133	Copper	7440-50-8	11.8		0.0704	0.427		2
06135	Lead	7439-92-1	8.73		0.0111	0.213		2
06138	Molybdenum	7439-98-7	1.06		0.0533	0.107		2
06139	Nickel	7440-02-0	15.7		0.107	0.427		2
06141	Selenium	7782-49-2	0.183	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0351	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.339		0.0320	0.107		2
06148	Vanadium	7440-62-2	50.3		0.0235	0.107		2
06149	Zinc	7440-66-6	80.4		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	436		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162813
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3202 SDG#: DE032-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.11	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010	10:50	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010	14:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/15/2010	23:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010	19:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010	15:53	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010	21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010	08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010	01:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010	01:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010	01:31	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010	13:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010	01:31	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010	13:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010	13:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010	01:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010	01:31	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162813
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3202 SDG#: DE032-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 13:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 13:12	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 13:16	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 13:12	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 09:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 14:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 09:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 09:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 02:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/21/2010 01:17	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/27/2010 13:27	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-294-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162814
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3203 SDG#: DE032-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-294-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162814
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3203 SDG#: DE032-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	7.2		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.9		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	9.1		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.5		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.5	20		1
10138	Chrysene	218-01-9	6.6		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	7.3		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	6.1		0.72	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	3.8		0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	370		81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-294-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162814
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3203 SDG#: DE032-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.072	U	0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.040	J	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.80	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		5.30	21.1		1
07914	Boron	7440-42-8	3.83	J	0.937	5.27		1
01650	Calcium	7440-70-2	5,540		6.45	21.1		1
01654	Iron	7439-89-6	22,300		4.96	21.1		1
01656	Lithium	7439-93-2	19.8		0.23	2.1		1
01657	Magnesium	7439-95-4	4,650		2.67	10.5		1
06958	Manganese	7439-96-5	278		0.0821	0.527		1
10145	Phosphorus	7723-14-0	484		0.590	10.5		1
01662	Potassium	7440-09-7	3,170		19.0	52.7		1
01667	Sodium	7440-23-5	121		39.3	105		1
07968	Strontium	7440-24-6	30.9		0.0653	0.527		1
06969	Tin	7440-31-5	2.03	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,130		2.00	5.27		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-294-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162814
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3203 SDG#: DE032-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	0.978	J	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.298		0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.05		0.0638	0.425		2
06126	Barium	7440-39-3	107		0.115	0.425		2
06127	Beryllium	7440-41-7	0.686		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.147		0.0383	0.106		2
06131	Chromium	7440-47-3	30.1		0.128	0.425		2
06132	Cobalt	7440-48-4	7.18		0.0213	0.106		2
06133	Copper	7440-50-8	10.9		0.0702	0.425		2
06135	Lead	7439-92-1	7.23		0.0111	0.213		2
06138	Molybdenum	7439-98-7	1.12		0.0532	0.106		2
06139	Nickel	7440-02-0	16.4		0.106	0.425		2
06141	Selenium	7782-49-2	0.143	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0263	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.285		0.0319	0.106		2
06148	Vanadium	7440-62-2	46.3		0.0234	0.106		2
06149	Zinc	7440-66-6	74.9		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	428		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.8		0.50	0.50		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-294-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162814
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3203 SDG#: DE032-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010	11:16	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010	14:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/15/2010	23:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010	19:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010	16:12	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010	21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010	08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010	01:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010	01:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010	01:35	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010	13:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010	01:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010	13:20	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010	13:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010	01:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010	01:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010	13:20	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010	13:20	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010	01:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010	01:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010	13:23	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010	13:20	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010	10:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010	10:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010	10:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010	10:00	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-294-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162814
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3203 SDG#: DE032-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 14:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 03:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/21/2010 01:41	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/27/2010 13:40	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-307-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162815
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3204 SDG#: DE032-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162815
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3204 SDG#: DE032-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	6.2		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.3		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	8.0		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.7		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	5.5		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.6	20		1
10138	Fluoranthene	206-44-0	8.3		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.93	J	0.73	1.8		1
10138	Pyrene	129-00-0	6.6		0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	2.0		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	300		83	270		1
10401	MCPP (Mecoprop)	93-65-2	240	U	240	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

Sample Description: SL-307-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162815
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3204 SDG#: DE032-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: MCPP.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.11	U	0.11	0.37		1
01363	p,p-DDE	72-55-9	0.26	U	0.26	0.37		1
01363	p,p-DDT	50-29-3	2.6		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.18	U	0.18	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.11	U	0.11	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	62		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.50	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.82	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		5.29	21.0		1
07914	Boron	7440-42-8	3.20	J	0.936	5.26		1

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Sample Description: SL-307-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162815
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3204 SDG#: DE032-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,360		6.45	21.0		1
01654	Iron	7439-89-6	17,700		4.95	21.0		1
01656	Lithium	7439-93-2	16.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,900		2.67	10.5		1
06958	Manganese	7439-96-5	331		0.0821	0.526		1
10145	Phosphorus	7723-14-0	510		0.589	10.5		1
01662	Potassium	7440-09-7	2,400		18.9	52.6		1
01667	Sodium	7440-23-5	187		39.2	105		1
07968	Strontium	7440-24-6	34.9		0.0652	0.526		1
06969	Tin	7440-31-5	1.76	J	1.05	10.5		1
06970	Titanium	7440-32-6	962		2.00	5.26		5
10146	Zirconium	7440-67-7	2.50	J	0.884	5.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.187	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.65		0.0637	0.425		2
06126	Barium	7440-39-3	101		0.115	0.425		2
06127	Beryllium	7440-41-7	0.631		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.167		0.0382	0.106		2
06131	Chromium	7440-47-3	25.3		0.127	0.425		2
06132	Cobalt	7440-48-4	6.07		0.0212	0.106		2
06133	Copper	7440-50-8	9.65		0.0701	0.425		2
06135	Lead	7439-92-1	5.70		0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.70		0.0531	0.106		2
06139	Nickel	7440-02-0	15.3		0.106	0.425		2
06141	Selenium	7782-49-2	0.176	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0263	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.231		0.0319	0.106		2
06148	Vanadium	7440-62-2	38.5		0.0234	0.106		2
06149	Zinc	7440-66-6	52.5		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0143	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: **SL-307-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162815
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3204 SDG#: DE032-04

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	445	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.38	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 11:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010 15:22	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 00:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/13/2011 00:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 16:30	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 01:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 01:38	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 13:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 01:38	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 13:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 13:27	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 01:38	John W Yanzuk II	1

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Sample Description: **SL-307-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162815
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E3204 SDG#: DE032-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 13:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 13:27	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:38	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 13:31	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 13:27	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 14:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 03:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/21/2010 02:29	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/27/2010 13:53	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-01-SA5B-QC-120810 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162816
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3205 SDG#: DE032-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-01-SA5B-QC-120810 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162816
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3205 SDG#: DE032-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.1		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	2.5		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	6.5	20		1
10138	Fluoranthene	206-44-0	1.7	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.81	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.7	J	0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	2.8		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	260	J	83	270		1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-01-SA5B-QC-120810 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162816
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3205 SDG#: DE032-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.072	U	0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.14	J	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.094	U	0.094	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.1	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.80	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,300		5.43	21.6		1
07914	Boron	7440-42-8	3.23	J	0.961	5.40		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-01-SA5B-QC-120810 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162816
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3205 SDG#: DE032-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,470		6.62	21.6		1
01654	Iron	7439-89-6	17,600		5.09	21.6		1
01656	Lithium	7439-93-2	16.7		0.24	2.2		1
01657	Magnesium	7439-95-4	3,900		2.74	10.8		1
06958	Manganese	7439-96-5	214		0.0842	0.540		1
10145	Phosphorus	7723-14-0	448		0.605	10.8		1
01662	Potassium	7440-09-7	2,430		19.4	54.0		1
01667	Sodium	7440-23-5	111		40.3	108		1
07968	Strontium	7440-24-6	29.5		0.0669	0.540		1
06969	Tin	7440-31-5	1.73	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,010		2.05	5.40		5
10146	Zirconium	7440-67-7	2.74	J	0.907	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.271		0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.39		0.0654	0.436		2
06126	Barium	7440-39-3	115		0.118	0.436		2
06127	Beryllium	7440-41-7	0.645		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.176		0.0393	0.109		2
06131	Chromium	7440-47-3	32.2		0.131	0.436		2
06132	Cobalt	7440-48-4	6.85		0.0218	0.109		2
06133	Copper	7440-50-8	11.6		0.0720	0.436		2
06135	Lead	7439-92-1	6.54		0.0113	0.218		2
06138	Molybdenum	7439-98-7	1.81		0.0545	0.109		2
06139	Nickel	7440-02-0	17.4		0.109	0.436		2
06141	Selenium	7782-49-2	0.199	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0287	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.188		0.0327	0.109		2
06148	Vanadium	7440-62-2	42.4		0.0240	0.109		2
06149	Zinc	7440-66-6	90.8		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-01-SA5B-QC-120810 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162816
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3205 SDG#: DE032-05FD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	445	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.50	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010	12:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010	15:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010	00:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010	19:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010	16:49	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010	21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010	08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010	01:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010	01:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010	01:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010	13:45	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010	01:42	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010	13:45	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010	13:45	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010	01:42	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-01-SA5B-QC-120810 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162816
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3205 SDG#: DE032-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 13:45	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 13:45	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 13:34	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 13:45	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 14:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/21/2010 16:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 04:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10352352202B	12/21/2010 02:53	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 12:40	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10352352202B	12/19/2010 19:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3206 SDG#: DE032-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.3		0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.96
06192	Methylene Chloride	75-09-2	0.57	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3206 SDG#: DE032-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.10	J	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		24.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.3	J	18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(b)fluoranthene	205-99-2	20	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	21	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3206 SDG#: DE032-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	19	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	7.3	J	6.6	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	2.9		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3206 SDG#: DE032-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.87	J	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1

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Sample Description: SL-011-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3206 SDG#: DE032-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	3.2	U	3.2	3.2		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	1.1	J	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	580		83	270		1
10401	MCPP (Mecoprop)	93-65-2	350		82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	1,200	J	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.36	U	0.36	0.91		5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.91		5
01363	Beta BHC	319-85-7	0.33	U	0.33	0.91		5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.91		5
01363	Chlordane	57-74-9	4.4	U	4.4	19		5
01363	p,p-DDD	72-54-8	0.36	U	0.36	1.9		5
01363	p,p-DDE	72-55-9	0.36	U	0.36	1.9		5
01363	p,p-DDT	50-29-3	0.36	U	0.36	1.9		5
01363	Delta BHC	319-86-8	0.20	U	0.20	0.91		5
01363	Dieldrin	60-57-1	0.36	U	0.36	1.9		5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.91		5
01363	Endosulfan II	33213-65-9	0.36	U	0.36	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.36	U	0.36	1.9		5
01363	Endrin	72-20-8	0.36	U	0.36	1.9		5
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	1.9		5
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	1.9		5
01363	Heptachlor	76-44-8	0.55	J	0.33	0.91		5
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.91		5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.1		5
01363	Mirex	2385-85-5	0.36	U	0.36	1.9		5
01363	Toxaphene	8001-35-2	12	U	12	36		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5

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SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3206 SDG#: DE032-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.3		5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.3		5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.3		5
10225	PCB-1248	12672-29-6	34		1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5
10225	PCB-1260	11096-82-5	1.8	U	1.8	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,000		5.33	21.2		1
07914	Boron	7440-42-8	2.25	J	0.943	5.30		1
01650	Calcium	7440-70-2	5,190		6.50	21.2		1
01654	Iron	7439-89-6	27,500		4.99	21.2		1
01656	Lithium	7439-93-2	16.2		0.23	2.1		1
01657	Magnesium	7439-95-4	3,940		2.69	10.6		1
06958	Manganese	7439-96-5	255		0.0827	0.530		1
10145	Phosphorus	7723-14-0	503		0.594	10.6		1
01662	Potassium	7440-09-7	2,880		19.1	53.0		1
01667	Sodium	7440-23-5	153		39.5	106		1
07968	Strontium	7440-24-6	27.5		0.0657	0.530		1
06969	Tin	7440-31-5	4.36	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,010		2.01	5.30		5
10146	Zirconium	7440-67-7	0.890	U	0.890	5.30		1

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SL-011-SA5B-SS-0.0-0.5

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E3206 SDG#: DE032-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.97		0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.30		0.0649	0.432		2
06126	Barium	7440-39-3	95.7		0.117	0.432		2
06127	Beryllium	7440-41-7	0.544		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.164		0.0389	0.108		2
06131	Chromium	7440-47-3	21.3		0.130	0.432		2
06132	Cobalt	7440-48-4	5.66		0.0216	0.108		2
06133	Copper	7440-50-8	10.4		0.0713	0.432		2
06135	Lead	7439-92-1	6.24		0.0112	0.216		2
06138	Molybdenum	7439-98-7	1.33		0.0540	0.108		2
06139	Nickel	7440-02-0	11.8		0.108	0.432		2
06141	Selenium	7782-49-2	0.186	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0409	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.273		0.0324	0.108		2
06148	Vanadium	7440-62-2	38.1		0.0238	0.108		2
06149	Zinc	7440-66-6	74.4		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	444		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
LLI Group # 1225033
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E3206 SDG#: DE032-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 16:05	Nicholas R Rossi	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 14:19	Jason M Long	24.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 21:06	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010 15:49	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010 15:49	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010 21:07	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10349SLE026	12/24/2010 18:15	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 12:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010 16:30	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10349SLE026	12/16/2010 03:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/14/2010 23:10	Marie D John	23.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 21:07	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 15:18	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 00:22	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 00:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010 19:59	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 17:07	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1

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SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
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E3206 SDG#: DE032-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 17:44	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 01:03	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103480030A	12/16/2010 02:06	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103480030A	12/15/2010 06:30	Joseph S Feister	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 01:46	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 01:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 13:48	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 01:46	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 13:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 13:48	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 01:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:46	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 13:48	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 13:48	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 13:52	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 13:48	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 14:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:46	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162817
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3206 SDG#: DE032-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 04:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10351351201A	12/19/2010 04:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 16:33	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 12:53	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201B	12/19/2010 16:05	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201B	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.92
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.92
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.92
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.92
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.92
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.92
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.92
06192	Methylene Chloride	75-09-2	0.53	J	0.24	4.1		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.92

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Sample Description: SL-014-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.92
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.5	U	18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	20	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-014-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	9.3	J	6.7	20		1
10138	Chrysene	218-01-9	0.91	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.1	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.94	J	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.69
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	85	U	85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1

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Sample Description: SL-014-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	1.7	J	0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	230	J	84	280		1
10401	MCPP (Mecoprop)	93-65-2	130	U	130	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.073	U	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.7		1

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Sample Description: SL-014-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.47	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.43	21.6		1
07914	Boron	7440-42-8	4.15	J	0.960	5.39		1
01650	Calcium	7440-70-2	4,660		6.61	21.6		1
01654	Iron	7439-89-6	19,100		5.08	21.6		1
01656	Lithium	7439-93-2	15.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,470		2.74	10.8		1
06958	Manganese	7439-96-5	228		0.0841	0.539		1
10145	Phosphorus	7723-14-0	522		0.604	10.8		1
01662	Potassium	7440-09-7	2,540		19.4	53.9		1
01667	Sodium	7440-23-5	146		40.2	108		1
07968	Strontium	7440-24-6	38.4		0.0669	0.539		1
06969	Tin	7440-31-5	1.75	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,020		2.05	5.39		5
10146	Zirconium	7440-67-7	3.33	J	0.906	5.39		1

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Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.294		0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.05		0.0641	0.427		2
06126	Barium	7440-39-3	113		0.115	0.427		2
06127	Beryllium	7440-41-7	0.529		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.169		0.0385	0.107		2
06131	Chromium	7440-47-3	37.6		0.128	0.427		2
06132	Cobalt	7440-48-4	7.16		0.0214	0.107		2
06133	Copper	7440-50-8	11.5		0.0705	0.427		2
06135	Lead	7439-92-1	5.26		0.0111	0.214		2
06138	Molybdenum	7439-98-7	2.72		0.0534	0.107		2
06139	Nickel	7440-02-0	19.3		0.107	0.427		2
06141	Selenium	7782-49-2	0.263	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0179	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.238		0.0321	0.107		2
06148	Vanadium	7440-62-2	47.4		0.0235	0.107		2
06149	Zinc	7440-66-6	55.1		0.598	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0043	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	445		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.71		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 16:27	Nicholas R Rossi	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 14:38	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:40	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010 15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010 15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010 20:40	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10349SLE026	12/24/2010 18:32	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 12:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010 17:04	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10349SLE026	12/16/2010 03:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/14/2010 23:46	Marie D John	22.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:40	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 16:00	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 00:32	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 01:27	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010 20:13	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 17:26	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1

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Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3207 SDG#: DE032-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 17:59	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 01:19	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103480030A	12/15/2010 21:36	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103480030A	12/15/2010 06:30	Joseph S Feister	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 01:50	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 01:50	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 13:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 01:50	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 13:56	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 13:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 01:50	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:50	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 13:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 13:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:50	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:50	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 13:59	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 13:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 14:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:47	Damary Valentin	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162818
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3207 SDG#: DE032-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 04:41	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10351351201A	12/19/2010 04:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 16:57	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 13:05	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10351102201B	12/19/2010 16:06	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10351102201B	12/17/2010 16:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162819
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3208 SDG#: DE032-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162819
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3208 SDG#: DE032-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	2.0		0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	180	U	180	270		1
10401	MCPP (Mecoprop)	93-65-2	170	J	80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162819
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3208 SDG#: DE032-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: MCPA.								
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	1.2	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.25	20.9		1
07914	Boron	7440-42-8	2.69	J	0.928	5.21		1
01650	Calcium	7440-70-2	5,110		6.39	20.9		1

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Sample Description: **SL-001-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162819
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3208 SDG#: DE032-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	18,300		4.91	20.9		1
01656	Lithium	7439-93-2	17.2		0.23	2.1		1
01657	Magnesium	7439-95-4	4,020		2.65	10.4		1
06958	Manganese	7439-96-5	229		0.0814	0.521		1
10145	Phosphorus	7723-14-0	430		0.584	10.4		1
01662	Potassium	7440-09-7	2,620		18.8	52.1		1
01667	Sodium	7440-23-5	133		38.9	104		1
07968	Strontium	7440-24-6	31.4		0.0647	0.521		1
06969	Tin	7440-31-5	1.90	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,000		1.98	5.21		5
10146	Zirconium	7440-67-7	1.90	J	0.876	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.204	J	0.0620	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.67		0.0620	0.413		2
06126	Barium	7440-39-3	102		0.112	0.413		2
06127	Beryllium	7440-41-7	0.482		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0885	J	0.0372	0.103		2
06131	Chromium	7440-47-3	22.6		0.124	0.413		2
06132	Cobalt	7440-48-4	5.84		0.0207	0.103		2
06133	Copper	7440-50-8	9.81		0.0682	0.413		2
06135	Lead	7439-92-1	5.68		0.0107	0.207		2
06138	Molybdenum	7439-98-7	0.840		0.0516	0.103		2
06139	Nickel	7440-02-0	12.1		0.103	0.413		2
06141	Selenium	7782-49-2	0.219	J	0.0413	0.413		2
06142	Silver	7440-22-4	0.0170	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.338		0.0310	0.103		2
06148	Vanadium	7440-62-2	40.6		0.0227	0.103		2
06149	Zinc	7440-66-6	81.4		0.578	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	448		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-001-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162819
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3208 SDG#: DE032-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.09	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 13:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010 17:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 01:54	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 14:01	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010 20:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 17:44	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 01:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 01:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 14:03	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 01:53	John W Yanzuk II	1

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Sample Description: **SL-001-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162819
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3208 SDG#: DE032-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:03	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:03	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 01:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:03	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:03	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 14:07	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:03	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 04:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 17:21	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 13:18	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1

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Sample Description: **SL-001-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162819
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3208 SDG#: DE032-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162820
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3209 SDG#: DE032-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-006-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162820
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3209 SDG#: DE032-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.1		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	17	J	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	23		6.5	20		1
10138	Chrysene	218-01-9	2.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	160		6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		6.5	20		1
10138	Fluoranthene	206-44-0	4.4		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	1.4	J	0.72	1.8		1
10138	Pyrene	129-00-0	3.2		0.72	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	1.8	U	1.8	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162820
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3209 SDG#: DE032-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.66	U	0.66	0.66		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.44	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162820
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3209 SDG#: DE032-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		5.40	21.5		1
07914	Boron	7440-42-8	4.20	J	0.955	5.36		1
01650	Calcium	7440-70-2	4,030		6.58	21.5		1
01654	Iron	7439-89-6	14,800		5.05	21.5		1
01656	Lithium	7439-93-2	12.5		0.24	2.1		1
01657	Magnesium	7439-95-4	3,300		2.72	10.7		1
06958	Manganese	7439-96-5	298		0.0837	0.536		1
10145	Phosphorus	7723-14-0	512		0.601	10.7		1
01662	Potassium	7440-09-7	1,970		19.3	53.6		1
01667	Sodium	7440-23-5	748		40.0	107		1
07968	Strontium	7440-24-6	42.5		0.0665	0.536		1
06969	Tin	7440-31-5	1.52	J	1.07	10.7		1
06970	Titanium	7440-32-6	797		0.408	1.07		1
10146	Zirconium	7440-67-7	3.51	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.333		0.0631	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.13		0.0631	0.421		2
06126	Barium	7440-39-3	104		0.114	0.421		2
06127	Beryllium	7440-41-7	0.345		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.159		0.0379	0.105		2
06131	Chromium	7440-47-3	33.0		0.126	0.421		2
06132	Cobalt	7440-48-4	5.68		0.0210	0.105		2
06133	Copper	7440-50-8	9.46		0.0694	0.421		2
06135	Lead	7439-92-1	5.04		0.0109	0.210		2
06138	Molybdenum	7439-98-7	1.82		0.0526	0.105		2
06139	Nickel	7440-02-0	15.1		0.105	0.421		2
06141	Selenium	7782-49-2	0.212	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0663	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.177		0.0316	0.105		2
06148	Vanadium	7440-62-2	37.6		0.0231	0.105		2
06149	Zinc	7440-66-6	55.6		0.589	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162820
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3209 SDG#: DE032-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	447	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.83	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 13:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010 18:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 02:22	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 14:14	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/13/2011 01:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 18:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 01:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 01:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 14:10	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162820
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3209 SDG#: DE032-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 01:57	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:10	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:10	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 01:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:10	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:10	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 01:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:10	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 05:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 17:45	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 13:31	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162820
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3209 SDG#: DE032-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162821
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3210 SDG#: DE032-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162821
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3210 SDG#: DE032-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.43	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	3.6		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	370		84	280		1
10401	MCPP (Mecoprop)	93-65-2	250	J	83	280		1
10401	2,4,5-T	93-76-5	0.22	U	0.22	0.22		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162821
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3210 SDG#: DE032-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.36	U	0.36	0.92		5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.92		5
01363	Beta BHC	319-85-7	0.33	U	0.33	0.92		5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.92		5
01363	Chlordane	57-74-9	4.4	U	4.4	19		5
01363	p,p-DDD	72-54-8	0.36	U	0.36	1.9		5
01363	p,p-DDE	72-55-9	0.36	U	0.36	1.9		5
01363	p,p-DDT	50-29-3	0.36	U	0.36	1.9		5
01363	Delta BHC	319-86-8	0.20	U	0.20	0.92		5
01363	Dieldrin	60-57-1	0.36	U	0.36	1.9		5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.92		5
01363	Endosulfan II	33213-65-9	0.36	U	0.36	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.36	U	0.36	1.9		5
01363	Endrin	72-20-8	0.36	U	0.36	1.9		5
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	1.9		5
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	1.9		5
01363	Heptachlor	76-44-8	0.33	U	0.33	0.92		5
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.92		5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.2		5
01363	Mirex	2385-85-5	0.36	U	0.36	1.9		5
01363	Toxaphene	8001-35-2	12	U	12	36		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,400		5.49	21.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162821
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3210 SDG#: DE032-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.62	J	0.972	5.46		1
01650	Calcium	7440-70-2	5,860		6.69	21.8		1
01654	Iron	7439-89-6	18,900		5.14	21.8		1
01656	Lithium	7439-93-2	17.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,070		2.77	10.9		1
06958	Manganese	7439-96-5	227		0.0851	0.546		1
10145	Phosphorus	7723-14-0	536		0.611	10.9		1
01662	Potassium	7440-09-7	2,930		19.6	54.6		1
01667	Sodium	7440-23-5	268		40.7	109		1
07968	Strontium	7440-24-6	30.3		0.0677	0.546		1
06969	Tin	7440-31-5	1.90	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,000		2.07	5.46		5
10146	Zirconium	7440-67-7	2.12	J	0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.264		0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.25		0.0655	0.437		2
06126	Barium	7440-39-3	130		0.118	0.437		2
06127	Beryllium	7440-41-7	0.420		0.0175	0.109		2
06128	Cadmium	7440-43-9	1.58		0.0393	0.109		2
06131	Chromium	7440-47-3	21.9		0.131	0.437		2
06132	Cobalt	7440-48-4	5.58		0.0218	0.109		2
06133	Copper	7440-50-8	9.87		0.0720	0.437		2
06135	Lead	7439-92-1	5.60		0.0114	0.218		2
06138	Molybdenum	7439-98-7	1.22		0.0546	0.109		2
06139	Nickel	7440-02-0	11.3		0.109	0.437		2
06141	Selenium	7782-49-2	0.250	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0609	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.251		0.0327	0.109		2
06148	Vanadium	7440-62-2	34.4		0.0240	0.109		2
06149	Zinc	7440-66-6	71.6		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0148	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162821
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3210 SDG#: DE032-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	436	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 14:15	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010 18:49	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 02:50	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 14:20	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010 20:57	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 18:22	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 02:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 02:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 14:14	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162821
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3210 SDG#: DE032-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 02:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:14	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:14	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 02:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 02:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:14	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:14	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 02:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 02:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 14:18	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:14	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201A	12/19/2010 05:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 18:09	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10355243203A	12/28/2010 13:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202A	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162821
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3210 SDG#: DE032-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162822
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-012-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162822
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	88		6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	1.0	J	0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	83	U	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

Sample Description: **SL-012-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162822
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: 2,4-DB.								
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.37		1
01363	Endrin Ketone	53494-70-5	0.17	J	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.31	U	0.31	0.31		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide and endrin aldehyde represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: dieldrin and p,p-DDT.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Sample Description: SL-012-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162822
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,350		5.50	21.9		1
07914	Boron	7440-42-8	2.93	J	0.973	5.46		1
01650	Calcium	7440-70-2	4,390		6.70	21.9		1
01654	Iron	7439-89-6	12,300		5.15	21.9		1
01656	Lithium	7439-93-2	8.5		0.24	2.2		1
01657	Magnesium	7439-95-4	2,750		2.78	10.9		1
06958	Manganese	7439-96-5	154		0.0852	0.546		1
10145	Phosphorus	7723-14-0	502		0.612	10.9		1
01662	Potassium	7440-09-7	1,550		19.7	54.6		1
01667	Sodium	7440-23-5	191		40.8	109		1
07968	Strontium	7440-24-6	45.5		0.0678	0.546		1
06969	Tin	7440-31-5	1.86	J	1.09	10.9		1
06970	Titanium	7440-32-6	737		0.415	1.09		1
10146	Zirconium	7440-67-7	4.45	J	0.918	5.46		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.294		0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.09		0.0649	0.433		2
06126	Barium	7440-39-3	73.3		0.117	0.433		2
06127	Beryllium	7440-41-7	0.302		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.149		0.0390	0.108		2
06131	Chromium	7440-47-3	30.6		0.130	0.433		2
06132	Cobalt	7440-48-4	5.03		0.0216	0.108		2
06133	Copper	7440-50-8	7.96		0.0714	0.433		2
06135	Lead	7439-92-1	3.82		0.0113	0.216		2
06138	Molybdenum	7439-98-7	1.74		0.0541	0.108		2
06139	Nickel	7440-02-0	14.2		0.108	0.433		2
06141	Selenium	7782-49-2	0.403	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0319	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.173		0.0325	0.108		2
06148	Vanadium	7440-62-2	36.5		0.0238	0.108		2
06149	Zinc	7440-66-6	38.7		0.606	3.25		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.87	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-012-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162822
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

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14420 Albemarle Point Place
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E3211 SDG#: DE032-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	386		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	8.5		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 09:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010 11:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/15/2010 20:23	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 14:26	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/05/2011 03:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 18:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1

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Sample Description: **SL-012-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162822
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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 00:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 00:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 12:29	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 00:57	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 12:29	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 12:29	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 00:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 00:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 12:29	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 12:29	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 00:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 00:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 00:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 12:29	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 09:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 14:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 09:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 09:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 09:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 05:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 14:57	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 13:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-012-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162822
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162823
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180		1
04688	Acenaphthylene	208-96-8	1,700	18	180		1
04688	Aniline	62-53-3	1,500	180	550		1
04688	Anthracene	120-12-7	1,700	18	180		1
04688	Benzidine	92-87-5	4,800	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	2,100	18	180		1
04688	Benzoic acid	65-85-0	1,200	180	550		1
04688	Benzyl alcohol	100-51-6	1,800	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,900	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700	18	180		1
04688	Carbazole	86-74-8	1,600	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	36	180		1
04688	4-Chloroaniline	106-47-8	1,100	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,300	18	180		1
04688	2-Chlorophenol	95-57-8	1,700	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	36	180		1
04688	Chrysene	218-01-9	1,700	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	18	180		1
04688	Dibenzofuran	132-64-9	1,700	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,800	18	180		1
04688	Diethylphthalate	84-66-2	1,700	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700	36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000	36	180		1
04688	Dimethylphthalate	131-11-3	1,700	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,300	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	360		1
04688	Fluoranthene	206-44-0	1,600	18	180		1
04688	Fluorene	86-73-7	1,700	18	180		1
04688	Hexachlorobenzene	118-74-1	1,700	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	1,700	180	550		1
04688	Hexachloroethane	67-72-1	1,500	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	18	180		1
04688	Isophorone	78-59-1	1,700	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162823
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,700	36	180		1
04688	4-Methylphenol	106-44-5	1,800	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	18	180		1
04688	2-Nitroaniline	88-74-4	1,700	18	180		1
04688	3-Nitroaniline	99-09-2	1,600	36	180		1
04688	4-Nitroaniline	100-01-6	1,300	73	180		1
04688	Nitrobenzene	98-95-3	1,600	18	180		1
04688	2-Nitrophenol	88-75-5	1,600	18	180		1
04688	4-Nitrophenol	100-02-7	1,500	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,200	18	180		1
04688	Pentachlorophenol	87-86-5	1,100	180	550		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,600	18	180		1
04688	Pyrene	129-00-0	2,000	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	36	180		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 28 ug/kg bis(2-ethylhexyl)phthalate 29 ug/kg These blank values were not subtracted from the analytical results.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.73	1.8		1
10138	Acenaphthylene	208-96-8	36	0.36	1.8		1
10138	Anthracene	120-12-7	37	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	37	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	36	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	40	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	25	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	34	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	38	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	39	6.6	20		1
10138	Chrysene	218-01-9	35	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	26	0.73	1.8		1
10138	Diethylphthalate	84-66-2	40	6.6	20		1
10138	Dimethylphthalate	131-11-3	39	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40	6.6	20		1

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Sample Description: SL-012-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162823
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	41		0.73	1.8		1
10138	Fluorene	86-73-7	35		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8		1
10138	Naphthalene	91-20-3	34		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	4.0		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	37		6.6	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	33		0.73	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	11		1.3	3.9		1
10401	Dalapon	75-99-0	13		4.8	9.8		1
10401	2,4-DB	94-82-6	9.4		0.68	1.9		1
10401	Dicamba	1918-00-9	0.83	J	0.44	1.3		1
10401	Dinoseb	88-85-7	1.4	J	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.2		0.87	1.9		1
10401	MCPA	94-74-6	990		83	270		1
10401	MCPP (Mecoprop)	93-65-2	1,000		82	270		1
10401	2,4,5-T	93-76-5	0.86		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.74		0.082	0.19		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	110		2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.28		0.072	0.19		1
01363	Alpha BHC	319-84-6	0.20		0.037	0.19		1
01363	Beta BHC	319-85-7	0.19		0.066	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.20		0.037	0.19		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.46		0.072	0.37		1
01363	p,p-DDE	72-55-9	0.59		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.24	J	0.072	0.37		1
01363	Delta BHC	319-86-8	0.20		0.039	0.19		1
01363	Dieldrin	60-57-1	0.39		0.072	0.37		1
01363	Endosulfan I	959-98-8	0.20		0.048	0.19		1
01363	Endosulfan II	33213-65-9	0.47		0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.56		0.072	0.37		1
01363	Endrin	72-20-8	0.44		0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.39		0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.62		0.072	0.37		1
01363	Heptachlor	76-44-8	0.19		0.066	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.26		0.037	0.19		1
01363	Methoxychlor	72-43-5	1.8		0.37	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162823
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	20		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	23		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.39	21.4		1
07914	Boron	7440-42-8	209		0.954	5.36		1
01650	Calcium	7440-70-2	5,100		6.57	21.4		1
01654	Iron	7439-89-6	12,700		5.05	21.4		1
01656	Lithium	7439-93-2	115		0.24	2.1		1
01657	Magnesium	7439-95-4	3,060		2.72	10.7		1
06958	Manganese	7439-96-5	204		0.0836	0.536		1
10145	Phosphorus	7723-14-0	559		0.600	10.7		1
01662	Potassium	7440-09-7	2,710		19.3	53.6		1
01667	Sodium	7440-23-5	1,270		40.0	107		1
07968	Strontium	7440-24-6	156		0.0664	0.536		1
06969	Tin	7440-31-5	413		1.07	10.7		1
06970	Titanium	7440-32-6	1,080		2.04	5.36		5
10146	Zirconium	7440-67-7	113		0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.21		0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.84		0.0643	0.429		2
06126	Barium	7440-39-3	83.2		0.116	0.429		2
06127	Beryllium	7440-41-7	1.24		0.0171	0.107		2
06128	Cadmium	7440-43-9	1.53		0.0386	0.107		2
06131	Chromium	7440-47-3	46.0		0.129	0.429		2
06132	Cobalt	7440-48-4	65.8		0.0214	0.107		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162823
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06133	Copper	7440-50-8	20.3	0.0707	0.429		2
06135	Lead	7439-92-1	8.29	0.0111	0.214		2
06138	Molybdenum	7439-98-7	14.2	0.0536	0.107		2
06139	Nickel	7440-02-0	27.4	0.107	0.429		2
06141	Selenium	7782-49-2	2.69	0.0429	0.429		2
06142	Silver	7440-22-4	13.2	0.0129	0.107		2
06145	Thallium	7440-28-0	0.683	0.0321	0.107		2
06148	Vanadium	7440-62-2	48.7	0.0236	0.107		2
06149	Zinc	7440-66-6	50.7	0.600	3.21		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.175	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.4	0.87	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	494	9.8	32.8		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	40.7	1.1	5.5		5
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010	09:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010	12:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/15/2010	20:51	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010	14:32	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/05/2011	04:07	Jamie L Brillhart	1

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Sample Description: **SL-012-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162823
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 18:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 01:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 01:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 12:40	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 01:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 12:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 12:40	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 01:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 12:40	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 12:40	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 12:48	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 12:40	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 09:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 09:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 09:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 09:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1

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Sample Description: **SL-012-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162823
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 06:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 16:09	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 14:10	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162824
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	1,500		180	550		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	5,400		1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	2,000		18	180		1
04688	Benzoic acid	65-85-0	870		180	550		1
04688	Benzyl alcohol	100-51-6	1,900		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		36	180		1
04688	4-Chloroaniline	106-47-8	1,200		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,800		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		36	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180		1
04688	Diethylphthalate	84-66-2	1,700		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000		36	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500		180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,100	J	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	360		1
04688	Fluoranthene	206-44-0	1,700		18	180		1
04688	Fluorene	86-73-7	1,700		18	180		1
04688	Hexachlorobenzene	118-74-1	1,800		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,800		73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	1,400		180	550		1
04688	Hexachloroethane	67-72-1	1,500		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		18	180		1
04688	Isophorone	78-59-1	1,700		18	180		1

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Sample Description: SL-012-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162824
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,800	36	180		1
04688	4-Methylphenol	106-44-5	1,900	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	1,700	18	180		1
04688	3-Nitroaniline	99-09-2	1,600	36	180		1
04688	4-Nitroaniline	100-01-6	1,300	73	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,600	18	180		1
04688	4-Nitrophenol	100-02-7	1,500	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,200	18	180		1
04688	Pentachlorophenol	87-86-5	1,200	180	550		1
04688	Phenanthrene	85-01-8	1,800	18	180		1
04688	Phenol	108-95-2	1,700	18	180		1
04688	Pyrene	129-00-0	2,000	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	36	180		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 28 ug/kg bis(2-ethylhexyl)phthalate 29 ug/kg These blank values were not subtracted from the analytical results.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.73	1.8		1
10138	Acenaphthylene	208-96-8	36	0.36	1.8		1
10138	Anthracene	120-12-7	35	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	36	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	33	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	35	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	25	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	33	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	39	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	39	6.6	20		1
10138	Chrysene	218-01-9	33	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	29	0.73	1.8		1
10138	Diethylphthalate	84-66-2	40	6.6	20		1
10138	Dimethylphthalate	131-11-3	39	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41	6.6	20		1

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Sample Description: SL-012-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162824
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	37		0.73	1.8		1
10138	Fluorene	86-73-7	35		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	33		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	29		0.73	1.8		1
10138	Naphthalene	91-20-3	31		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	1.8		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	36		6.6	20		1
10138	Phenanthrene	85-01-8	34		0.73	1.8		1
10138	Pyrene	129-00-0	32		0.73	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.8		1.3	3.9		1
10401	Dalapon	75-99-0	13		4.8	9.8		1
10401	2,4-DB	94-82-6	8.8		0.68	1.9		1
10401	Dicamba	1918-00-9	0.79	J	0.44	1.3		1
10401	Dinoseb	88-85-7	2.2	J	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.3		0.87	1.9		1
10401	MCPA	94-74-6	810		83	270		1
10401	MCPP (Mecoprop)	93-65-2	830		82	270		1
10401	2,4,5-T	93-76-5	0.82		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.68		0.082	0.19		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	110		2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.30		0.072	0.19		1
01363	Alpha BHC	319-84-6	0.20		0.037	0.19		1
01363	Beta BHC	319-85-7	0.19		0.066	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.22		0.037	0.19		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.49		0.072	0.37		1
01363	p,p-DDE	72-55-9	0.64		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.48		0.072	0.37		1
01363	Delta BHC	319-86-8	0.22		0.039	0.19		1
01363	Dieldrin	60-57-1	0.49		0.072	0.37		1
01363	Endosulfan I	959-98-8	0.20		0.048	0.19		1
01363	Endosulfan II	33213-65-9	0.54		0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.46		0.072	0.37		1
01363	Endrin	72-20-8	0.38		0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.34	J	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.50		0.072	0.37		1
01363	Heptachlor	76-44-8	0.22		0.066	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.22		0.037	0.19		1
01363	Methoxychlor	72-43-5	1.5	J	0.37	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162824
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	21		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	23		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.							
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,900		5.50	21.9		1
07914	Boron	7440-42-8	217		0.973	5.46		1
01650	Calcium	7440-70-2	5,480		6.70	21.9		1
01654	Iron	7439-89-6	13,700		5.15	21.9		1
01656	Lithium	7439-93-2	119		0.24	2.2		1
01657	Magnesium	7439-95-4	3,310		2.78	10.9		1
06958	Manganese	7439-96-5	222		0.0852	0.546		1
10145	Phosphorus	7723-14-0	589		0.612	10.9		1
01662	Potassium	7440-09-7	2,900		19.7	54.6		1
01667	Sodium	7440-23-5	1,300		40.8	109		1
07968	Strontium	7440-24-6	157		0.0678	0.546		1
06969	Tin	7440-31-5	426		1.09	10.9		1
06970	Titanium	7440-32-6	1,060		2.08	5.46		5
10146	Zirconium	7440-67-7	113		0.918	5.46		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.06		0.0631	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.42		0.0631	0.420		2
06126	Barium	7440-39-3	91.8		0.113	0.420		2
06127	Beryllium	7440-41-7	1.36		0.0168	0.105		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162824
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	1.49	0.0378	0.105		2
06131	Chromium	7440-47-3	47.7	0.126	0.420		2
06132	Cobalt	7440-48-4	69.0	0.0210	0.105		2
06133	Copper	7440-50-8	20.5	0.0694	0.420		2
06135	Lead	7439-92-1	8.03	0.0109	0.210		2
06138	Molybdenum	7439-98-7	15.7	0.0525	0.105		2
06139	Nickel	7440-02-0	29.1	0.105	0.420		2
06141	Selenium	7782-49-2	2.52	0.0420	0.420		2
06142	Silver	7440-22-4	13.8	0.0126	0.105		2
06145	Thallium	7440-28-0	0.737	0.0315	0.105		2
06148	Vanadium	7440-62-2	50.4	0.0231	0.105		2
06149	Zinc	7440-66-6	59.3	0.588	3.15		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.170	0.0030	0.106		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 10:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010 13:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/15/2010 21:18	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 14:38	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103560019A	01/05/2011 04:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 19:17	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103560019A	12/22/2010 18:30	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1

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Sample Description: **SL-012-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162824
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 01:13	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 01:13	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 12:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 01:13	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 12:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 12:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 01:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 01:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 12:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 12:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 01:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 01:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 12:51	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 12:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 09:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 09:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 09:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 09:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162825
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,850		5.39	21.4		1
07914	Boron	7440-42-8	2.50	J	0.954	5.36		1
01650	Calcium	7440-70-2	4,020		6.57	21.4		1
01654	Iron	7439-89-6	12,200		5.05	21.4		1
01656	Lithium	7439-93-2	8.2		0.24	2.1		1
01657	Magnesium	7439-95-4	2,650		2.72	10.7		1
06958	Manganese	7439-96-5	143		0.0836	0.536		1
10145	Phosphorus	7723-14-0	508		0.600	10.7		1
01662	Potassium	7440-09-7	1,530		19.3	53.6		1
01667	Sodium	7440-23-5	188		40.0	107		1
07968	Strontium	7440-24-6	57.1		0.0664	0.536		1
06969	Tin	7440-31-5	1.48	J	1.07	10.7		1
06970	Titanium	7440-32-6	711		0.407	1.07		1
10146	Zirconium	7440-67-7	4.38	J	0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.147	J	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.46		0.0643	0.429		2
06126	Barium	7440-39-3	56.2		0.116	0.429		2
06127	Beryllium	7440-41-7	0.242		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.124		0.0386	0.107		2
06131	Chromium	7440-47-3	27.0		0.129	0.429		2
06132	Cobalt	7440-48-4	3.98		0.0214	0.107		2
06133	Copper	7440-50-8	6.98		0.0707	0.429		2
06135	Lead	7439-92-1	3.02		0.0111	0.214		2
06138	Molybdenum	7439-98-7	1.69		0.0536	0.107		2
06139	Nickel	7440-02-0	11.7		0.107	0.429		2
06141	Selenium	7782-49-2	0.386	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0150	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.0986	J	0.0321	0.107		2
06148	Vanadium	7440-62-2	30.5		0.0236	0.107		2
06149	Zinc	7440-66-6	30.3		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-012-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162825
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	386	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.27	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	8.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010	01:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010	01:05	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010	12:36	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010	01:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010	12:36	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010	12:36	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010	01:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010	01:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010	12:36	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010	12:36	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010	01:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010	01:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010	01:05	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010	12:36	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010	09:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010	09:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010	09:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010	09:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010	14:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010	09:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010	09:36	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162825
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3211 SDG#: DE032-11DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 09:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 09:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 09:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 09:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 09:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 09:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 09:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 09:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 09:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 05:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 05:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 15:21	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 15:43	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162826
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3212 SDG#: DE032-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162826
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3212 SDG#: DE032-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	J	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.66	J	0.36	1.8		1
10138	Anthracene	120-12-7	3.5		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	21		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	16		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	27		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.0		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	19		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.0		0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.5	20		1
10138	Fluoranthene	206-44-0	39		0.72	1.8		1
10138	Fluorene	86-73-7	1.1	J	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	6.2		0.72	1.8		1
10138	Pyrene	129-00-0	28		0.72	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	5.2	U	5.2	5.2		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	170	U	170	270		1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

Sample Description: **SL-013-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162826
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3212 SDG#: DE032-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: MCPA, MCPP, and 2,4-DB.								
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.17	U	0.17	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.51	U	0.51	1.8		1
01363	Mirex	2385-85-5	0.53	U	0.53	0.53		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.0	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.7	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-013-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162826
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3212 SDG#: DE032-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.25	20.9		1
07914	Boron	7440-42-8	3.35	J	0.928	5.21		1
01650	Calcium	7440-70-2	8,300		6.39	20.9		1
01654	Iron	7439-89-6	20,500		4.91	20.9		1
01656	Lithium	7439-93-2	17.9		0.23	2.1		1
01657	Magnesium	7439-95-4	4,060		2.65	10.4		1
06958	Manganese	7439-96-5	265		0.0813	0.521		1
10145	Phosphorus	7723-14-0	492		0.584	10.4		1
01662	Potassium	7440-09-7	2,620		18.8	52.1		1
01667	Sodium	7440-23-5	663		38.9	104		1
07968	Strontium	7440-24-6	35.6		0.0647	0.521		1
06969	Tin	7440-31-5	1.81	J	1.04	10.4		1
06970	Titanium	7440-32-6	932		0.793	2.09		2
10146	Zirconium	7440-67-7	1.98	J	0.876	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.92		0.0644	0.430		2
06126	Barium	7440-39-3	81.5		0.116	0.430		2
06127	Beryllium	7440-41-7	0.396		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.200		0.0387	0.107		2
06131	Chromium	7440-47-3	17.9		0.129	0.430		2
06132	Cobalt	7440-48-4	4.50		0.0215	0.107		2
06133	Copper	7440-50-8	8.44		0.0709	0.430		2
06135	Lead	7439-92-1	4.71		0.0112	0.215		2
06138	Molybdenum	7439-98-7	1.01		0.0537	0.107		2
06139	Nickel	7440-02-0	10.5		0.107	0.430		2
06141	Selenium	7782-49-2	0.275	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0459	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.206		0.0322	0.107		2
06148	Vanadium	7440-62-2	29.4		0.0236	0.107		2
06149	Zinc	7440-66-6	64.9		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0378	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-013-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162826
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3212 SDG#: DE032-12

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199			mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498			mV		mV	mV	mV	
01821	Oxidation Reduction Potential		n.a.	408		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
	SW-846 9045C modified			Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C		n.a.	8.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			%		%	%	%	
11624	28a Moisture Content by 160.3		n.a.	7.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010	14:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/16/2010	19:22	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010	03:17	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010	14:45	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010	21:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010	19:36	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010	21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010	08:00	Kerrie A Freeburn	1

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Sample Description: SL-013-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162826
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3212 SDG#: DE032-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 02:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 02:05	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 14:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 02:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:28	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 02:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 02:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:28	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 02:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 02:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/20/2010 18:14	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:28	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 06:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 18:33	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 15:56	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1

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Sample Description: **SL-013-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162826
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3212 SDG#: DE032-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10347182103B	12/13/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10347039403B	12/13/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162827
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3213 SDG#: DE032-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.87
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.87
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.87
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.87
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.87
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.87
06192	Methylene Chloride	75-09-2	0.44	J	0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

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Sample Description: SL-018-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162827
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3213 SDG#: DE032-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.6
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	42.7		18.3	36.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-018-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162827
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3213 SDG#: DE032-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.84	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.85	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.88	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.9		0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.6	20		1
10138	Fluoranthene	206-44-0	1.2	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.73	1.8		1

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Sample Description: **SL-018-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162827
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3213 SDG#: DE032-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	1.2	J	0.73	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	84	U	84	170	10000000	1

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E3213 SDG#: DE032-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	390	U	390	390		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.13	J	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.37		1
01363	p,p-DDT	50-29-3	0.073	U	0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.10	J	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.85		0.073	0.37		1

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E3213 SDG#: DE032-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.46	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.52	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.							
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,000		5.48	21.8		1
07914	Boron	7440-42-8	4.53	J	0.969	5.45		1
01650	Calcium	7440-70-2	4,920		6.68	21.8		1
01654	Iron	7439-89-6	18,700		5.13	21.8		1

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Sample Description: **SL-018-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162827
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

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14420 Albemarle Point Place
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E3213 SDG#: DE032-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	14.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,320		2.77	10.9		1
06958	Manganese	7439-96-5	212		0.0850	0.545		1
10145	Phosphorus	7723-14-0	545		0.610	10.9		1
01662	Potassium	7440-09-7	2,370		19.6	54.5		1
01667	Sodium	7440-23-5	175		40.6	109		1
07968	Strontium	7440-24-6	44.5		0.0675	0.545		1
06969	Tin	7440-31-5	1.62	J	1.09	10.9		1
06970	Titanium	7440-32-6	932		0.414	1.09		1
10146	Zirconium	7440-67-7	3.77	J	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.342		0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.26		0.0641	0.427		2
06126	Barium	7440-39-3	118		0.115	0.427		2
06127	Beryllium	7440-41-7	0.540		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.180		0.0385	0.107		2
06131	Chromium	7440-47-3	38.9		0.128	0.427		2
06132	Cobalt	7440-48-4	8.09		0.0214	0.107		2
06133	Copper	7440-50-8	12.2		0.0705	0.427		2
06135	Lead	7439-92-1	6.98		0.0111	0.214		2
06138	Molybdenum	7439-98-7	2.25		0.0534	0.107		2
06139	Nickel	7440-02-0	20.2		0.107	0.427		2
06141	Selenium	7782-49-2	0.218	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0354	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.230		0.0320	0.107		2
06148	Vanadium	7440-62-2	49.7		0.0235	0.107		2
06149	Zinc	7440-66-6	62.4		0.598	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1

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SL-018-SA5B-SS-0.0-0.5

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E3213 SDG#: DE032-13

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	396	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.13	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 16:49	Nicholas R Rossi	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 14:58	Jason M Long	22.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010 15:49	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010 15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010 20:30	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10349SLE026	12/24/2010 18:50	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010 15:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/17/2010 12:15	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10349SLE026	12/16/2010 03:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 00:23	Marie D John	23.32

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Sample Description: SL-018-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162827
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3213 SDG#: DE032-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:31	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 18:07	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 00:41	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 04:40	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 14:51	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010 22:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 19:54	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 18:13	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 01:35	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103480030A	12/15/2010 22:21	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103480030A	12/15/2010 06:30	Joseph S Feister	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 02:15	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 02:15	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 14:32	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 02:15	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:32	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 02:15	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 02:15	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:32	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:32	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 02:15	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 02:15	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 02:15	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:32	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2

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Sample Description: **SL-018-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162827
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3213 SDG#: DE032-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 07:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10351351201B	12/19/2010 07:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 18:57	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 16:09	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

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Sample Description: **SL-020-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.0	8.3		0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.96
06192	Methylene Chloride	75-09-2	0.57	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Sample Description: SL-020-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.6	J	18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-020-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	7.6	J	6.6	20		1
10138	Chrysene	218-01-9	1.0	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.82	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-020-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.84	J	0.73	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1

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Sample Description: SL-020-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	7.3	U	7.3	7.3		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	350		83	270		1
10401	MCPP (Mecoprop)	93-65-2	230	J	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	690	J	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.081	J	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.37		1
01363	p,p-DDT	50-29-3	0.21	U	0.21	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.9		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.62	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.							
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.49	21.8		1
07914	Boron	7440-42-8	4.16	J	0.972	5.46		1
01650	Calcium	7440-70-2	5,330		6.69	21.8		1
01654	Iron	7439-89-6	19,000		5.14	21.8		1
01656	Lithium	7439-93-2	16.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,240		2.77	10.9		1
06958	Manganese	7439-96-5	235		0.0852	0.546		1

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Sample Description: SL-020-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	499		0.611	10.9		1
01662	Potassium	7440-09-7	2,550		19.7	54.6		1
01667	Sodium	7440-23-5	216		40.7	109		1
07968	Strontium	7440-24-6	35.3		0.0677	0.546		1
06969	Tin	7440-31-5	1.91	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,030		2.07	5.46		5
10146	Zirconium	7440-67-7	2.77	J	0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.347		0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.03		0.0636	0.424		2
06126	Barium	7440-39-3	101		0.114	0.424		2
06127	Beryllium	7440-41-7	0.438		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.182		0.0382	0.106		2
06131	Chromium	7440-47-3	29.3		0.127	0.424		2
06132	Cobalt	7440-48-4	6.43		0.0212	0.106		2
06133	Copper	7440-50-8	10.0		0.0700	0.424		2
06135	Lead	7439-92-1	5.28		0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.49		0.0530	0.106		2
06139	Nickel	7440-02-0	15.3		0.106	0.424		2
06141	Selenium	7782-49-2	0.322	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0247	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.167		0.0318	0.106		2
06148	Vanadium	7440-62-2	40.5		0.0233	0.106		2
06149	Zinc	7440-66-6	60.4		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	396		10.0	10.0		1

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Sample Description: **SL-020-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

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E3214 SDG#: DE032-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.69	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	17:11	Nicholas R Rossi	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	15:18	Jason M Long	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	20:59	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010	15:49	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010	20:59	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10349SLE026	12/24/2010	16:49	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/22/2010	15:31	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/17/2010	12:48	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10349SLE026	12/16/2010	03:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010	00:59	Marie D John	23.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	20:59	Christopher D Meeks	n.a.

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Sample Description: **SL-020-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 20:14	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 00:51	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 05:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/20/2010 22:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/20/2010 20:13	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 18:28	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 01:51	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103480030A	12/16/2010 01:21	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103480030A	12/15/2010 06:30	Joseph S Feister	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 02:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 02:19	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 14:36	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 02:19	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:36	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:36	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 02:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 02:19	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:36	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:36	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 02:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 02:19	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 14:40	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:36	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2

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Sample Description: **SL-020-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162828
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3214 SDG#: DE032-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/21/2010 16:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 06:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 07:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10351351201B	12/19/2010 07:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 19:22	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 16:22	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-306-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162829
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3215 SDG#: DE032-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-306-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162829
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3215 SDG#: DE032-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.56	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.7		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	9.8		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	14		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	6.4		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	9.7		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	9.2		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	7.7	J	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40		6.6	20		1
10138	Fluoranthene	206-44-0	4.7		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.6		0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	7.0	J	6.6	20		1
10138	Phenanthrene	85-01-8	1.0	J	0.74	1.8		1
10138	Pyrene	129-00-0	5.6		0.74	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	3.4		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,700		84	280		1
10401	MCPP (Mecoprop)	93-65-2	450		83	280		1
10401	2,4,5-T	93-76-5	0.77		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1

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Sample Description: SL-306-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162829
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3215 SDG#: DE032-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	3.0	U	3.0	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.37		1
01363	p,p-DDT	50-29-3	0.61	U	0.61	0.61		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.7	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,300		5.33	21.2		1
07914	Boron	7440-42-8	4.31	J	0.944	5.30		1
01650	Calcium	7440-70-2	4,890		6.50	21.2		1
01654	Iron	7439-89-6	19,300		4.99	21.2		1
01656	Lithium	7439-93-2	18.3		0.23	2.1		1
01657	Magnesium	7439-95-4	4,180		2.69	10.6		1
06958	Manganese	7439-96-5	234		0.0827	0.530		1
10145	Phosphorus	7723-14-0	461		0.594	10.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-306-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162829
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3215 SDG#: DE032-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,820		19.1	53.0		1
01667	Sodium	7440-23-5	318		39.5	106		1
07968	Strontium	7440-24-6	28.1		0.0657	0.530		1
06969	Tin	7440-31-5	2.13	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,070		2.01	5.30		5
10146	Zirconium	7440-67-7	1.74	J	0.891	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	2.07		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.21		0.0662	0.441		2
06126	Barium	7440-39-3	93.8		0.119	0.441		2
06127	Beryllium	7440-41-7	0.467		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.127		0.0397	0.110		2
06131	Chromium	7440-47-3	23.0		0.132	0.441		2
06132	Cobalt	7440-48-4	6.13		0.0221	0.110		2
06133	Copper	7440-50-8	10.7		0.0728	0.441		2
06135	Lead	7439-92-1	6.01		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.951		0.0551	0.110		2
06139	Nickel	7440-02-0	12.3		0.110	0.441		2
06141	Selenium	7782-49-2	0.204	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0269	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.294		0.0331	0.110		2
06148	Vanadium	7440-62-2	40.8		0.0243	0.110		2
06149	Zinc	7440-66-6	78.7		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.6	J	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	391		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-306-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162829
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3215 SDG#: DE032-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.73	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/31/2010 04:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/17/2010 13:22	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 05:35	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/21/2010 00:00	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/21/2010 21:56	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 02:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 02:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 14:43	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 02:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:43	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:43	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 02:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 02:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:43	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:43	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 02:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 02:23	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-306-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162829
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3215 SDG#: DE032-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 14:47	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:43	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 06:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 07:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201A	12/21/2010 19:46	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10355243203A	12/28/2010 16:41	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201A	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-02-SA5B-QC-120910 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162830
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3216 SDG#: DE032-16FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-02-SA5B-QC-120910 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162830
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3216 SDG#: DE032-16FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.42	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.1		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.6		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	2.3		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.9	J	6.4	19		1
10138	Fluoranthene	206-44-0	2.8		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.81	J	0.72	1.8		1
10138	Pyrene	129-00-0	2.4		0.72	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	1.8	J	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	140	U	140	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-02-SA5B-QC-120910 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162830
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3216 SDG#: DE032-16FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: MCPA.								
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.084	J	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.090	U	0.090	0.37		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: endrin ketone.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	4.3		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.65	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-02-SA5B-QC-120910 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162830
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3216 SDG#: DE032-16FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,560		5.40	21.5		1
07914	Boron	7440-42-8	3.74	J	0.956	5.37		1
01650	Calcium	7440-70-2	4,480		6.58	21.5		1
01654	Iron	7439-89-6	13,200		5.06	21.5		1
01656	Lithium	7439-93-2	12.7		0.24	2.1		1
01657	Magnesium	7439-95-4	3,030		2.73	10.7		1
06958	Manganese	7439-96-5	160		0.0838	0.537		1
10145	Phosphorus	7723-14-0	508		0.602	10.7		1
01662	Potassium	7440-09-7	2,090		19.3	53.7		1
01667	Sodium	7440-23-5	201		40.1	107		1
07968	Strontium	7440-24-6	36.9		0.0666	0.537		1
06969	Tin	7440-31-5	1.15	J	1.07	10.7		1
06970	Titanium	7440-32-6	759		0.408	1.07		1
10146	Zirconium	7440-67-7	2.45	J	0.902	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.157	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.64		0.0632	0.421		2
06126	Barium	7440-39-3	67.5		0.114	0.421		2
06127	Beryllium	7440-41-7	0.254		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.112		0.0379	0.105		2
06131	Chromium	7440-47-3	23.4		0.126	0.421		2
06132	Cobalt	7440-48-4	4.31		0.0211	0.105		2
06133	Copper	7440-50-8	7.39		0.0695	0.421		2
06135	Lead	7439-92-1	3.31		0.0110	0.211		2
06138	Molybdenum	7439-98-7	1.43		0.0527	0.105		2
06139	Nickel	7440-02-0	10.8		0.105	0.421		2
06141	Selenium	7782-49-2	0.200	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0219	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.131		0.0316	0.105		2
06148	Vanadium	7440-62-2	31.0		0.0232	0.105		2
06149	Zinc	7440-66-6	44.2		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

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Sample Description: **DUP-02-SA5B-QC-120910 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162830
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3216 SDG#: DE032-16FD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	401	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	9.10	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	01/01/2011 00:44	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/17/2010 13:56	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010 06:03	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010 14:57	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/21/2010 00:14	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/21/2010 22:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010 21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010 08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010 01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010 02:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010 02:27	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010 14:50	Eric L Eby	1

*=This limit was used in the evaluation of the final result
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Sample Description: DUP-02-SA5B-QC-120910 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162830
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3216 SDG#: DE032-16FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 02:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:50	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:50	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 02:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 02:27	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:50	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:50	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 02:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 02:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 02:27	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:50	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 06:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 07:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/21/2010 21:46	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 16:48	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-02-SA5B-QC-120910 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162830
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3216 SDG#: DE032-16FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-291-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162831
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3217 SDG#: DE032-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)pyrene	50-32-8	100	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	57	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	50	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Chrysene	218-01-9	89	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	53	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	25	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-291-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162831
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3217 SDG#: DE032-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenanthrene	85-01-8	29	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	57	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	1.1	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.8		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	9.9		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	12	J	6.4	19		1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.4	19		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	8.5	J	6.4	19		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	160	U	160	270		1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following							

Sample Description: **SL-291-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162831
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3217 SDG#: DE032-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	compounds were affected: MCPA and MCPP.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.35	U	0.35	0.88		5
01363	Alpha BHC	319-84-6	0.18	U	0.18	0.88		5
01363	Beta BHC	319-85-7	0.32	U	0.32	0.88		5
01363	Gamma BHC - Lindane	58-89-9	0.18	U	0.18	0.88		5
01363	Chlordane	57-74-9	4.3	U	4.3	18		5
01363	p,p-DDD	72-54-8	0.35	U	0.35	1.8		5
01363	p,p-DDE	72-55-9	0.35	U	0.35	1.8		5
01363	p,p-DDT	50-29-3	2.6	U	2.6	2.6		5
01363	Delta BHC	319-86-8	0.19	U	0.19	0.88		5
01363	Dieldrin	60-57-1	0.40	U	0.40	1.8		5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.88		5
01363	Endosulfan II	33213-65-9	0.35	U	0.35	1.8		5
01363	Endosulfan Sulfate	1031-07-8	0.35	U	0.35	1.8		5
01363	Endrin	72-20-8	0.35	U	0.35	1.8		5
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	1.8		5
01363	Endrin Ketone	53494-70-5	0.89	U	0.89	1.8		5
01363	Heptachlor	76-44-8	0.32	U	0.32	0.88		5
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.88		5
01363	Methoxychlor	72-43-5	1.8	U	1.8	8.8		5
01363	Mirex	2385-85-5	0.35	U	0.35	1.8		5
01363	Toxaphene	8001-35-2	12	U	12	35		5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	2.5		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Sample Description: SL-291-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162831
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3217 SDG#: DE032-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.30	21.1		1
07914	Boron	7440-42-8	7.33		0.938	5.27		1
01650	Calcium	7440-70-2	9,690		6.46	21.1		1
01654	Iron	7439-89-6	17,900		4.97	21.1		1
01656	Lithium	7439-93-2	12.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,820		2.68	10.5		1
06958	Manganese	7439-96-5	231		0.0822	0.527		1
10145	Phosphorus	7723-14-0	651		0.590	10.5		1
01662	Potassium	7440-09-7	2,750		19.0	52.7		1
01667	Sodium	7440-23-5	943		39.3	105		1
07968	Strontium	7440-24-6	50.6		0.0654	0.527		1
06969	Tin	7440-31-5	1.38	J	1.05	10.5		1
06970	Titanium	7440-32-6	899		0.401	1.05		1
10146	Zirconium	7440-67-7	3.01	J	0.886	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.376		0.0626	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.41		0.0626	0.418		2
06126	Barium	7440-39-3	130		0.113	0.418		2
06127	Beryllium	7440-41-7	0.514		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.255		0.0376	0.104		2
06131	Chromium	7440-47-3	27.5		0.125	0.418		2
06132	Cobalt	7440-48-4	6.51		0.0209	0.104		2
06133	Copper	7440-50-8	20.6		0.0689	0.418		2
06135	Lead	7439-92-1	10.1		0.0109	0.209		2
06138	Molybdenum	7439-98-7	2.21		0.0522	0.104		2
06139	Nickel	7440-02-0	15.8		0.104	0.418		2
06141	Selenium	7782-49-2	1.09		0.0418	0.418		2
06142	Silver	7440-22-4	0.141		0.0125	0.104		2
06145	Thallium	7440-28-0	0.210		0.0313	0.104		2
06148	Vanadium	7440-62-2	43.7		0.0230	0.104		2
06149	Zinc	7440-66-6	116		0.585	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0114	J	0.0029	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.21	1.1		1

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Sample Description: **SL-291-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162831
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

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Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E3217 SDG#: DE032-17

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	402	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.90	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/24/2010	12:51	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/17/2010	14:30	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010	06:30	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490016A	12/17/2010	15:03	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/21/2010	00:28	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/21/2010	22:33	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010	21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010	08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010	01:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490016A	12/16/2010	09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010	02:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010	02:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010	14:54	Eric L Eby	1

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Sample Description: **SL-291-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162831
LLI Group # 1225033
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Project Name: SSFL Area IV Collocated Soil Sampling

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E3217 SDG#: DE032-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010 02:30	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010 14:54	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010 14:54	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010 02:30	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010 02:30	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010 14:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010 14:54	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010 02:30	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010 02:30	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 02:30	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:54	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 08:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/21/2010 20:34	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10355243203A	12/28/2010 17:07	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-291-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162831
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3217 SDG#: DE032-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162832
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3218 SDG#: DE032-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	49	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	39	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	53	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	22	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Chrysene	218-01-9	52	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350		1
04688	Fluoranthene	206-44-0	46	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	26	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162832
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3218 SDG#: DE032-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	55	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.55	J	0.35	1.8		1
10138	Anthracene	120-12-7	0.87	J	0.35	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	8.3	J	6.3	19		1
10138	Dibenz(a,h)anthracene	53-70-3	0.89	J	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluorene	86-73-7	0.84	J	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.0	J	0.70	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.1 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	1.5	U	1.5	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	100	U	100	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1
	When the concentration detected on the primary and confirmation							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-002-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162832
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3218 SDG#: DE032-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.098	J	0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.20	J	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.74	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		5.25	20.9		1
07914	Boron	7440-42-8	3.31	J	0.930	5.22		1
01650	Calcium	7440-70-2	5,340		6.40	20.9		1
01654	Iron	7439-89-6	20,500		4.92	20.9		1
01656	Lithium	7439-93-2	21.1		0.23	2.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162832
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3218 SDG#: DE032-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,190		2.65	10.4		1
06958	Manganese	7439-96-5	253		0.0815	0.522		1
10145	Phosphorus	7723-14-0	433		0.585	10.4		1
01662	Potassium	7440-09-7	2,730		18.8	52.2		1
01667	Sodium	7440-23-5	603		39.0	104		1
07968	Strontium	7440-24-6	19.1		0.0648	0.522		1
06969	Tin	7440-31-5	1.90	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,040		1.98	5.22		5
10146	Zirconium	7440-67-7	0.968	J	0.877	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.176	J	0.0621	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.20		0.0621	0.414		2
06126	Barium	7440-39-3	90.4		0.112	0.414		2
06127	Beryllium	7440-41-7	0.426		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0734	J	0.0372	0.103		2
06131	Chromium	7440-47-3	17.2		0.124	0.414		2
06132	Cobalt	7440-48-4	4.85		0.0207	0.103		2
06133	Copper	7440-50-8	7.25		0.0683	0.414		2
06135	Lead	7439-92-1	5.16		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.483		0.0517	0.103		2
06139	Nickel	7440-02-0	9.90		0.103	0.414		2
06141	Selenium	7782-49-2	0.102	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0280	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.285		0.0310	0.103		2
06148	Vanadium	7440-62-2	30.5		0.0228	0.103		2
06149	Zinc	7440-66-6	70.0		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	442		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162832
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3218 SDG#: DE032-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.87	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/24/2010	13:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/17/2010	15:03	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010	06:58	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/21/2010	00:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/21/2010	22:52	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010	21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010	08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010	01:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010	02:34	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010	02:34	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010	14:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010	02:34	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010	14:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010	14:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010	02:34	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010	02:34	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010	14:58	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010	14:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010	02:34	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010	02:34	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-002-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162832
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3218 SDG#: DE032-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 15:02	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 14:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 06:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10351351201B	12/19/2010 08:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/21/2010 22:10	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 17:13	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10351351202B	12/17/2010 21:15	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162833
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3219 SDG#: DE032-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)pyrene	50-32-8	22	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162833
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3219 SDG#: DE032-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.81	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.83	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.1	J	0.72	1.8		1
10138	Pyrene	129-00-0	0.81	J	0.72	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	160	U	160	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162833
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3219 SDG#: DE032-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.36		1
01363	p,p-DDT	50-29-3	0.099	U	0.099	0.36		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36		1
01363	Endrin Ketone	53494-70-5	0.092	U	0.092	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.53	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,700		5.19	20.6		1
07914	Boron	7440-42-8	3.64	J	0.918	5.16		1
01650	Calcium	7440-70-2	7,720		6.32	20.6		1
01654	Iron	7439-89-6	20,200		4.86	20.6		1
01656	Lithium	7439-93-2	17.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,200		2.62	10.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162833
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3219 SDG#: DE032-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	238		0.0805	0.516		1
10145	Phosphorus	7723-14-0	500		0.578	10.3		1
01662	Potassium	7440-09-7	2,890		18.6	51.6		1
01667	Sodium	7440-23-5	567		38.5	103		1
07968	Strontium	7440-24-6	36.4		0.0640	0.516		1
06969	Tin	7440-31-5	1.79	J	1.03	10.3		1
06970	Titanium	7440-32-6	979		1.96	5.16		5
10146	Zirconium	7440-67-7	2.00	J	0.867	5.16		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.518		0.0625	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.53		0.0625	0.417		2
06126	Barium	7440-39-3	116		0.113	0.417		2
06127	Beryllium	7440-41-7	0.515		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.210		0.0375	0.104		2
06131	Chromium	7440-47-3	26.9		0.125	0.417		2
06132	Cobalt	7440-48-4	6.37		0.0208	0.104		2
06133	Copper	7440-50-8	11.8		0.0688	0.417		2
06135	Lead	7439-92-1	8.74		0.0108	0.208		2
06138	Molybdenum	7439-98-7	1.50		0.0521	0.104		2
06139	Nickel	7440-02-0	15.4		0.104	0.417		2
06141	Selenium	7782-49-2	0.399	J	0.0417	0.417		2
06142	Silver	7440-22-4	0.0704	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.301		0.0313	0.104		2
06148	Vanadium	7440-62-2	41.5		0.0229	0.104		2
06149	Zinc	7440-66-6	80.9		0.583	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0063	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	447		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162833
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3219 SDG#: DE032-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLD026	12/24/2010	13:43	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10348SLI026	12/17/2010	15:38	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10348SLI026	12/15/2010	07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLD026	12/14/2010	18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103480022A	12/16/2010	07:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103480023A	12/21/2010	00:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103470023A	12/21/2010	23:10	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103480023A	12/14/2010	21:45	Karen L Beyer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103470023A	12/14/2010	08:00	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103480022A	12/15/2010	01:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103485708004	12/17/2010	02:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103485708004	12/17/2010	02:38	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103485708004	12/17/2010	15:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103485708004	12/17/2010	02:38	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103485708004	12/17/2010	15:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103485708004	12/17/2010	15:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103485708004	12/17/2010	02:38	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103485708004	12/17/2010	02:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103485708004	12/17/2010	15:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103485708004	12/17/2010	15:12	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103485708004	12/17/2010	02:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103485708004	12/17/2010	02:38	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162833
LLI Group # 1225033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 01/17/2011 12:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3219 SDG#: DE032-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103485708004	12/17/2010 15:16	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103485708004	12/17/2010 15:12	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103491026004A	12/21/2010 15:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026004D	12/17/2010 10:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026004A	12/21/2010 15:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026004C	12/17/2010 10:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026004B	12/17/2010 10:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026004A	12/17/2010 10:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103485711003	12/15/2010 06:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103485708004	12/14/2010 20:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103481026002	12/14/2010 20:35	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103491026004	12/15/2010 20:35	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103485711003	12/14/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 14:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/21/2010 22:34	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10355243203A	12/28/2010 17:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10355243203A	12/21/2010 21:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103481AA	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
Acetone	6.7	U	6.7	8.0	ug/kg	172	170	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	104	102	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	96	94	79-120	3	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	101	100	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	82	79	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	126	125	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	99	94	72-120	4	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	98	95	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	95	92	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	99	69-122	4	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	87	85	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	96	95	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	103	101	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	76	78	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	95	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	95	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	100	96	22-131	4	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90	88	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	96	95	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95	96	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	96	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	96	94	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97	94	79-120	3	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	51	49	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103	100	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	101	100	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	100	98	73-123	3	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	101	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103	98	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	96	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	99	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	101	98	77-120	3	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93	93	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91	92	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	97	80-120	3	30
Freon 113	0.11	U	0.11	4.0	ug/kg	92	87	61-126	5	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	92	89	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	93	88	57-120	5	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	83	84	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	97	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	96	75-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96	96	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	75	73	61-134	3	30
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	98	98	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101	97	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	97	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	98	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	93	91	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	98	77-120	3	30
Toluene	0.11	J	0.08	4.0	ug/kg	99	97	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	92	64-120	3	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94	91	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	90	86	71-125	5	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	96	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	99	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	82	78	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	94	93	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	99	95	79-120	4	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99	96	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	79	76	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	98	80-120	3	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	95	80-120	2	30
Batch number: E103492AA	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	106	70-130	1	30
Batch number: 10348SLD026	Sample number(s): 6162812-6162824,6162826-6162833									
Acenaphthene	17	U	17.	170	ug/kg	93		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	97		75-122		
Aniline	170 U		170.	500	ug/kg	85		10-107		
Anthracene	17	U	17.	170	ug/kg	93		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	51		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	93		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	102		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	96		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	112		67-125		
Benzoic acid	170 U		170.	500	ug/kg	96		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	104		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	96		75-115		
Di-n-butylphthalate	28	J	17.	170	ug/kg	95		79-112		
Carbazole	17	U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	104		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	100		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	102		79-110		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	98		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		79-102		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	65		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	103		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	116		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	80		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	97		77-111		
bis(2-Ethylhexyl)phthalate	29	J	17.	330	ug/kg	93		75-117		
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Fluorene	17	U	17.	170	ug/kg	95		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	77		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	97		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	100		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	103		66-117		
Naphthalene	17	U	17.	170	ug/kg	93		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	102		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	87		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	117		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	72		35-106		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	94		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 10348SLI026	Sample number(s): 6162812-6162824,6162826-6162833									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	92		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		63-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	93		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	90		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	107		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	109		70-130		
Bis(2-Ethylhexyl)phthalate	6.1	J	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	91		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	77		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	75		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	104		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		56-121		
Batch number: 10349SLE026	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	99		70-130		
Batch number: 10348A34A	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	75	69	67-119	8	30
Batch number: 103480012A	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	95	96	54-134	1	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	95	96	54-134	1	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	110		80-120		
HMX	130 U		130.	380	ug/kg	93		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	105		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	108		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	107		80-120		
PETN	1,000 U		1,000.	3,000	ug/kg	105		80-120		
RDX	63	U	63.	150	ug/kg	105		75-131		
Tetryl	77	U	77.	150	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	109		80-120		
Batch number: 103480007A	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	99		80-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103480022A	Sample number(s): 6162812-6162824,6162826-6162833									
2,4-D	1.2	U	1.2	3.6	ug/kg	108		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	53		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	102		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	83		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	12		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	92		60-141		
MCPA	76	U	76.	250	ug/kg	101		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	104		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	100		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	86		48-138		
Batch number: 103490016A	Sample number(s): 6162819-6162824,6162826-6162827,6162830-6162831									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	97		85-115		
Batch number: 103470023A	Sample number(s): 6162812-6162824,6162826-6162833									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70*	71*	75-125	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	119		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103480023A	Sample number(s): 6162812-6162814,6162816-6162819,6162821,6162826-6162833									
Aldrin	0.066	U	0.066	0.17	ug/kg	100		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	112		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	100		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	115		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	101		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	108		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	156*		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	100		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	103		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	112		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	103		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	114		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	123		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	98		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	119		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	114		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	100		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	158*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103560019A	Sample number(s): 6162815,6162820,6162822-6162824									
Aldrin	0.066	U	0.066	0.17	ug/kg	112		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	82		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p,p-DDD	0.066	U	0.066	0.34	ug/kg	91		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	118		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	57		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	80		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	82		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	95		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	91		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	71		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	58		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	95		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	85		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	106		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	59		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103470024A	Sample number(s): 6162812									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	89		66-113		
Batch number: 103480002A	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
Ethanol	100 U		100.	500	ug/kg	96		75-112		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	104		75-134		
Batch number: 103480018A	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
Diethylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	87		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Batch number: 103480030A	Sample number(s): 6162812,6162817-6162818,6162827-6162828									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
Batch number: 103485708004	Sample number(s): 6162812-6162833									
Aluminum	5.03	U	5.03	20.0	mg/kg	96		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	87		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	97		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	103		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.69	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	93		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	106		79-121		
Tin	1.78	J	1.00	10.0	mg/kg	106		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	102		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103485711003	Sample number(s): 6162812-6162833								
Mercury	0.0027 U	0.0027	0.0953	mg/kg	95		88-123		
Batch number: 103491026004A	Sample number(s): 6162812-6162833								
Antimony	0.0600 U	0.0600	0.200	mg/kg	144		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	108		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	110		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	114		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	115		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	109		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	105		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	108		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	109		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	103		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	103		78-122		
Batch number: 103491026004B	Sample number(s): 6162812-6162833								
Selenium	0.0400 U	0.0400	0.400	mg/kg	104		79-122		
Batch number: 103491026004C	Sample number(s): 6162812-6162833								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 103491026004D	Sample number(s): 6162812-6162833								
Barium	0.108 U	0.108	0.400	mg/kg	105		79-121		
Batch number: 10351102201B	Sample number(s): 6162812,6162817-6162818								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	103		80-120		
Batch number: 10351351201A	Sample number(s): 6162812-6162821								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	105		90-110		
Batch number: 10351351201B	Sample number(s): 6162822-6162823,6162825-6162832								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	105		90-110		
Batch number: 10352352201A	Sample number(s): 6162833								
11a Anions by 300.0 - Fluoride	1.3	0.80	1.0	mg/kg	102		90-110		
Batch number: 10352352202B	Sample number(s): 6162812-6162816								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	89		85-115		
Batch number: 10354354201A	Sample number(s): 6162817-6162823,6162825-6162829								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	97		85-115		
Batch number: 10354354201B	Sample number(s): 6162830-6162833								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	97		85-115		
Batch number: 10355243203A	Sample number(s): 6162812-6162823,6162825-6162833								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	95		80-120		
Batch number: 10357102201A	Sample number(s): 6162827-6162828								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	101		80-120		
Batch number: 10347039403A	Sample number(s): 6162812								
22a pH by 9045C					100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10347039403B	Sample number(s): 6162813-6162822,6162825-6162826								
22a pH by 9045C					100		95-105		
Batch number: 10347182103A	Sample number(s): 6162812								
Oxidation Reduction Potential					99		98-102		
Batch number: 10347182103B	Sample number(s): 6162813-6162822,6162825-6162826								
Oxidation Reduction Potential					99		98-102		
Batch number: 10348039401A	Sample number(s): 6162827-6162833								
22a pH by 9045C					100		95-105		
Batch number: 10348182101A	Sample number(s): 6162827-6162833								
Oxidation Reduction Potential					99		98-102		
Batch number: 10348162401A	Sample number(s): 6162813-6162816,6162819-6162821								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10348162401B	Sample number(s): 6162822-6162826,6162829-6162833								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
Batch number: 10357162401A	Sample number(s): 6162812,6162817-6162818,6162827-6162828								
28a Moisture Content by 160.3					99		80-120		

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103481AA	Sample number(s): 6162812,6162817-6162818,6162827-6162828 UNSPK: 6162812								
Acetone	187		15-210						
Benzene	108		55-143						
Bromobenzene	91		43-139						
Bromochloromethane	109		60-137						
Bromodichloromethane	103		53-136						
Bromoform	93		38-124						
Bromomethane	83		42-168						
2-Butanone	132		37-163						
n-Butylbenzene	80		30-146						
sec-Butylbenzene	86		33-157						
tert-Butylbenzene	88		41-152						
Carbon Tetrachloride	109		45-153						
Chlorobenzene	98		49-135						
Chloroethane	87		39-152						
2-Chloroethyl Vinyl Ether	95		32-139						
Chloroform	111		61-142						
Chloromethane	87		51-163						
2-Chlorotoluene	92		42-146						
4-Chlorotoluene	90		39-145						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dibromo-3-chloropropane	82		30-139						
Dibromochloromethane	99		51-128						
1,2-Dibromoethane	95		54-129						
Dibromomethane	103		57-130						
1,2-Dichlorobenzene	87		36-133						
1,3-Dichlorobenzene	83		34-134						
1,4-Dichlorobenzene	85		35-136						
Dichlorodifluoromethane	62		26-151						
1,1-Dichloroethane	108		63-142						
1,2-Dichloroethane	106		68-131						
1,1-Dichloroethene	109		61-149						
cis-1,2-Dichloroethene	106		60-136						
trans-1,2-Dichloroethene	108		59-142						
1,2-Dichloropropane	105		62-135						
1,3-Dichloropropane	100		58-129						
2,2-Dichloropropane	104		53-147						
1,1-Dichloropropene	105		54-145						
cis-1,3-Dichloropropene	95		51-131						
trans-1,3-Dichloropropene	92		49-129						
Ethylbenzene	100		44-141						
Freon 113	100		56-156						
Hexachlorobutadiene	57		10-155						
2-Hexanone	85		32-160						
Isopropylbenzene	95		38-144						
p-Isopropyltoluene	85		29-152						
Methyl Tertiary Butyl Ether	96		55-129						
4-Methyl-2-pentanone	73		46-139						
Methylene Chloride	147*		61-141						
n-Propylbenzene	94		39-157						
Styrene	97		35-134						
1,1,1,2-Tetrachloroethane	102		52-130						
1,1,2,2-Tetrachloroethane	91		40-152						
Tetrachloroethene	106		42-149						
Toluene	101		50-146						
1,2,3-Trichlorobenzene	60		10-140						
1,2,4-Trichlorobenzene	61		10-136						
1,1,1-Trichloroethane	95		64-142						
1,1,2-Trichloroethane	100		54-139						
Trichloroethene	105		53-144						
Trichlorofluoromethane	96		47-163						
1,2,3-Trichloropropane	93		45-154						
1,2,4-Trimethylbenzene	90		37-149						
1,3,5-Trimethylbenzene	92		38-150						
Vinyl Chloride	86		50-154						
m+p-Xylene	100		44-137						
o-Xylene	96		42-137						
Batch number: 10348SLD026	Sample number(s): 6162812-6162824,6162826-6162833 UNSPK: 6162822								
Acenaphthene	90	94	75-115	5	30				
Acenaphthylene	92	96	49-126	4	30				
Aniline	80	84	14-114	5	30				
Anthracene	92	96	75-115	4	30				
Benzidine	53	59	35-141	11	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)anthracene	93	96	65-122	3	30				
Benzo(a)pyrene	107	104	57-126	3	30				
Benzo(b)fluoranthene	102	102	59-125	0	30				
Benzo(g,h,i)perylene	103	101	59-127	2	30				
Benzo(k)fluoranthene	113	107	56-132	5	30				
Benzoic acid	66	48	10-173	33*	30				
Benzyl alcohol	96	103	55-123	6	30				
4-Bromophenyl-phenylether	96	100	67-129	4	30				
Butylbenzylphthalate	104	107	73-134	3	30				
Di-n-butylphthalate	93	97	67-123	4	30				
Carbazole	89	91	64-120	3	30				
4-Chloro-3-methylphenol	100	99	53-130	1	30				
4-Chloroaniline	60	66	23-95	9	30				
bis(2-Chloroethoxy)methane	92	93	54-117	1	30				
bis(2-Chloroethyl)ether	95	98	60-116	4	30				
bis(2-Chloroisopropyl)ether	86	93	55-142	8	30				
2-Chloronaphthalene	70	75	50-141	6	30				
2-Chlorophenol	92	98	73-121	7	30				
4-Chlorophenyl-phenylether	97	101	64-119	4	30				
Chrysene	95	98	62-128	3	30				
Dibenz(a,h)anthracene	101	100	65-125	1	30				
Dibenzofuran	93	94	71-112	2	30				
1,2-Dichlorobenzene	86	89	66-108	4	30				
1,3-Dichlorobenzene	81	85	63-109	4	30				
1,4-Dichlorobenzene	83	85	53-113	3	30				
3,3'-Dichlorobenzidine	78	79	25-123	0	30				
2,4-Dichlorophenol	97	98	78-117	1	30				
Diethylphthalate	93	95	66-118	3	30				
2,4-Dimethylphenol	91	97	56-130	7	30				
3,5-Dimethylphenol	108	110	70-130	2	30				
Dimethylphthalate	93	96	64-118	3	30				
4,6-Dinitro-2-methylphenol	81	82	10-148	2	30				
2,4-Dinitrophenol	63	57	20-143	9	30				
2,4-Dinitrotoluene	93	92	57-114	1	30				
2,6-Dinitrotoluene	93	97	69-123	4	30				
1,2-Diphenylhydrazine	96	101	71-129	6	30				
bis(2-Ethylhexyl)phthalate	97	99	63-122	2	30				
Fluoranthene	88	91	59-122	3	30				
Fluorene	91	93	60-125	2	30				
Hexachlorobenzene	91	99	61-111	8	30				
Hexachlorobutadiene	93	97	62-120	5	30				
Hexachlorocyclopentadiene	46	40	10-153	14	30				
Hexachloroethane	84	85	57-109	1	30				
Indeno(1,2,3-cd)pyrene	101	101	61-126	0	30				
Isophorone	91	94	51-118	3	30				
1-Methylnaphthalene	92	96	73-112	5	30				
2-Methylnaphthalene	87	90	76-114	4	30				
2-Methylphenol	91	96	47-142	6	30				
4-Methylphenol	98	102	55-126	4	30				
Naphthalene	88	92	72-116	3	30				
2-Nitroaniline	91	95	67-125	4	30				
3-Nitroaniline	88	88	59-122	1	30				
4-Nitroaniline	73	73	52-112	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	87	93	51-114	6	30				
2-Nitrophenol	87	88	74-115	1	30				
4-Nitrophenol	85	84	39-133	1	30				
N-Nitroso-di-n-propylamine	93	96	60-116	3	30				
N-Nitrosodimethylamine	84	89	47-116	5	30				
N-Nitrosodiphenylamine	96	101	86-145	5	30				
Di-n-octylphthalate	122	122	56-126	0	30				
Pentachlorophenol	62	67	17-149	8	30				
Phenanthrene	92	96	65-125	4	30				
Phenol	88	91	58-126	3	30				
Pyrene	108	110	51-151	2	30				
1,2,4-Trichlorobenzene	92	94	72-115	2	30				
2,4,5-Trichlorophenol	95	95	34-139	0	30				
2,4,6-Trichlorophenol	97	102	49-140	5	30				
Batch number: 10348SLI026	Sample number(s): 6162812-6162824,6162826-6162833 UNSPK: 6162822								
Acenaphthene	93	89	63-105	5	30				
Acenaphthylene	98	98	55-126	0	30				
Anthracene	100	97	46-136	3	30				
Benzo(a)anthracene	101	98	39-144	3	30				
Benzo(a)pyrene	98	90	34-156	9	30				
Benzo(b)fluoranthene	109	96	43-155	13	30				
Benzo(g,h,i)perylene	70	68	33-141	3	30				
Benzo(k)fluoranthene	92	90	42-144	3	30				
Butylbenzylphthalate	103	108	73-140	4	30				
Di-n-butylphthalate	88	88	78-160	0	30				
Chrysene	97	92	29-156	5	30				
Dibenz(a,h)anthracene	71	81	41-130	13	30				
Diethylphthalate	109	109	87-131	0	30				
Dimethylphthalate	107	108	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	-131*	-129*	39-167	2	30				
Fluoranthene	113	102	26-166	10	30				
Fluorene	97	96	45-121	1	30				
Indeno(1,2,3-cd)pyrene	71	80	21-143	12	30				
1-Methylnaphthalene	96	90	72-123	7	30				
2-Methylnaphthalene	87	80	28-121	8	30				
Naphthalene	93	86	61-102	8	30				
N-Nitrosodimethylamine	11*	5*	48-113	75*	30				
Di-n-octylphthalate	101	98	40-192	4	30				
Phenanthrene	96	93	12-165	4	30				
Pyrene	88	84	15-153	4	30				
Batch number: 10349SLE026	Sample number(s): 6162812,6162817-6162818,6162827-6162828 UNSPK: 6162828								
N-Nitrosodimethylamine	94	87	70-130	7	30				
Batch number: 103480012A	Sample number(s): 6162812,6162817-6162818,6162827-6162828 UNSPK: 6162818								
4-Amino-2,6-Dinitrotoluene	104	96	80-127	8	50				
2-Amino-4,6-Dinitrotoluene	103	95	80-137	7	50				
1,3-Dinitrobenzene	103	97	38-166	6	50				
2,4-Dinitrotoluene	100	94	80-131	6	50				
2,6-Dinitrotoluene	105	99	80-127	6	50				
HMX	92	81	63-128	12	50				
Nitrobenzene	103	98	80-125	5	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitroglycerin	92	86	80-120	7	50				
2-Nitrotoluene	106	100	80-122	6	50				
3-Nitrotoluene	106	100	72-119	6	50				
4-Nitrotoluene	105	99	80-125	6	50				
PETN	103	94	80-121	9	50				
RDX	95	84	75-129	13	50				
Tetryl	106	90	55-174	16	50				
1,3,5-Trinitrobenzene	110	102	82-126	8	50				
2,4,6-Trinitrotoluene	103	96	82-130	7	50				
Batch number: 103480007A	Sample number(s): 6162812,6162817-6162818,6162827-6162828 UNSPK: 6162812								
17a Formaldehyde by 8315A	29*	26*	80-120	3	50				
Batch number: 103480022A	Sample number(s): 6162812-6162824,6162826-6162833 UNSPK: 6162822								
2,4-D	116	108	28-161	8	35				
Dalapon	56	57	12-86	2	50				
2,4-DB	103	97	20-170	6	50				
Dicamba	92	87	33-120	5	50				
Dinoseb	9	14	1-44	44*	35				
2,4-DP (Dichlorprop)	101	91	55-141	10	50				
MCPA	108	89	31-184	20	50				
MCPP (Mecoprop)	110	91	16-174	18	50				
2,4,5-T	95	90	25-132	5	35				
2,4,5-TP	82	75	10-183	9	35				
Batch number: 103490016A	Sample number(s): 6162819-6162824,6162826-6162827,6162830-6162831 UNSPK: 6162822								
6a Perchlorate EPA 6850	101	99	80-120	2	20				
Batch number: 103470023A	Sample number(s): 6162812-6162824,6162826-6162833 UNSPK: 6162822								
PCB-1016	111	117	29-146	5	50				
PCB-1260	127	126	39-149	1	50				
Batch number: 103480023A	Sample number(s): 6162812-6162814,6162816-6162819,6162821,6162826-6162833 UNSPK: P162822								
Aldrin	71	74	16-126	4	50				
Alpha BHC	100	76	10-129	28	50				
Beta BHC	119	91	14-147	27	50				
Gamma BHC - Lindane	94	85	10-140	10	50				
p,p-DDD	124	99	16-163	23	50				
p,p-DDE	60	56	18-161	4	50				
p,p-DDT	249*	88	10-176	75*	50				
Delta BHC	84	75	23-140	12	50				
Dieldrin	107	80	19-154	26	50				
Endosulfan I	61	79	16-137	26	50				
Endosulfan II	62	71	28-154	14	50				
Endosulfan Sulfate	59	68	21-160	15	50				
Endrin	111	100	11-149	10	50				
Endrin Aldehyde	87	89	10-148	2	35				
Endrin Ketone	94	110	22-165	16	50				
Heptachlor	167*	142*	13-126	16	50				
Heptachlor Epoxide	81	87	13-157	8	50				
Methoxychlor	113	110	32-147	2	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103560019A	Sample number(s): 6162815,6162820,6162822-6162824 UNSPK: 6162822								
Aldrin	79	82	16-126	4	50				
Alpha BHC	55	55	10-129	0	50				
Beta BHC	53	53	14-147	0	50				
Gamma BHC - Lindane	55	61	10-140	11	50				
p,p-DDD	63	67	16-163	7	50				
p,p-DDE	83	91	18-161	9	50				
p,p-DDT	34	68	10-176	67*	50				
Delta BHC	56	63	23-140	11	50				
Dieldrin	55	68	19-154	22	50				
Endosulfan I	55	55	16-137	0	50				
Endosulfan II	66	75	28-154	13	50				
Endosulfan Sulfate	78	65	21-160	19	50				
Endrin	61	53	11-149	13	50				
Endrin Aldehyde	55	47	10-148	15	35				
Endrin Ketone	64	47	22-165	21	50				
Heptachlor	52	61	13-126	16	50				
Heptachlor Epoxide	73	61	13-157	18	50				
Methoxychlor	48	40	32-147	20	50				
Batch number: 103470024A	Sample number(s): 6162812 UNSPK: P158224								
EFH (C12-C14)	83	92	49-123	10	20				
EFH (C15-C20)	106	113	49-123	7	20				
EFH (C21-C30)	97	99	49-123	2	20				
EFH (C30 - C40)	98	91	49-123	5	20				
EFH (C8-C11)	69	81	49-123	16	20				
Batch number: 103480002A	Sample number(s): 6162812,6162817-6162818,6162827-6162828 UNSPK: P162864								
Ethanol	79	79	24-143	0	20				
Isopropanol	76	75	75-125	0	20				
Methanol	92	90	45-136	2	20				
Batch number: 103480018A	Sample number(s): 6162812,6162817-6162818,6162827-6162828 UNSPK: P162864								
Diethylene glycol	83	87	59-109	4	20				
Ethylene glycol	80	71	63-107	12	20				
Propylene glycol	94	90	63-107	5	20				
Batch number: 103480030A	Sample number(s): 6162812,6162817-6162818,6162827-6162828 UNSPK: 6162812								
m-Terphenyl	95	94	75-125	1	20				
o-Terphenyl	105	103	75-125	2	20				
p-Terphenyl	92	94	75-125	3	20				
Batch number: 103485708004	Sample number(s): 6162812-6162833 UNSPK: 6162822 BKG: 6162822								
Aluminum	1349 (2)	1604 (2)	75-125	5	20	8,560	8,100	6	20
Boron	96	98	84-115	4	20	2.68 J	2.29 J	16 (1)	20
Calcium	165 (2)	249 (2)	75-125	7	20	4,020	3,680	9	20
Iron	385 (2)	1267 (2)	75-125	7	20	11,300	11,200	1	20
Lithium	100	101	82-114	3	20	7.8	7.5	4 (1)	20
Magnesium	148 (2)	257 (2)	75-125	8	20	2,510	2,420	4	20
Manganese	92	123	75-125	8	20	141	131	8	20
Phosphorus	54 (2)	79 (2)	75-125	5	20	459	465	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Potassium	109	124	75-125	7	20	1,410		1,400		1	20
Sodium	101	102	75-125	3	20	175		172		2 (1)	20
Strontium	103	102	75-115	1	20	41.6		52.3		23*	20
Tin	96	97	80-110	3	20	1.70	J	1.36	J	23* (1)	20
Titanium	322 (2)	295 (2)	75-125	2	20	674		651		4	20
Zirconium	101	99	75-125	0	20	4.07	J	4.01	J	2 (1)	20
Batch number: 103485711003	Sample number(s): 6162812-6162833 UNSPK: 6162822 BKG: 6162822										
Mercury	98	97	65-135	3	20	0.0028	U	0.0028	U	0 (1)	20
Batch number: 103491026004A	Sample number(s): 6162812-6162833 UNSPK: 6162822 BKG: 6162822										
Antimony	71*	61*	75-125	13	20	0.269		0.134	J	67* (1)	20
Arsenic	82	111	75-125	8	20	4.66		4.08		13	20
Beryllium	109	125	75-125	9	20	0.276		0.222		22* (1)	20
Cadmium	129*	128*	75-125	3	20	0.136		0.113		19 (1)	20
Chromium	144*	163*	75-125	4	20	28.0		24.7		13	20
Cobalt	113	122	75-125	5	20	4.61		3.64		24*	20
Copper	115	120	75-125	1	20	7.28		6.39		13	20
Lead	139*	134*	75-125	3	20	3.49		2.76		23*	20
Nickel	122	142*	75-125	6	20	13.0		10.7		19	20
Silver	123	131*	75-125	4	20	0.0291	J	0.0137	J	72* (1)	20
Thallium	119	134*	75-125	8	20	0.158		0.0902	J	55* (1)	20
Vanadium	114	132*	75-125	3	20	33.4		27.9		18	20
Zinc	111	195*	75-125	16	20	35.4		27.7		24*	20
Batch number: 103491026004B	Sample number(s): 6162812-6162833 UNSPK: 6162822 BKG: 6162822										
Selenium	107	101	75-125	7	20	0.369	J	0.353	J	4 (1)	20
Batch number: 103491026004C	Sample number(s): 6162812-6162833 UNSPK: 6162822 BKG: 6162822										
Molybdenum	117	133*	75-125	10	20	1.59		1.55		3	20
Batch number: 103491026004D	Sample number(s): 6162812-6162833 UNSPK: 6162822 BKG: 6162822										
Barium	92 (2)	176 (2)	75-125	10	20	67.1		51.4		26*	20
Batch number: 10351102201B	Sample number(s): 6162812,6162817-6162818 UNSPK: P158229 BKG: P158229										
21a Cyanide by 9012B	116		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 10351351201A	Sample number(s): 6162812-6162821 UNSPK: 6162812 BKG: 6162812										
11a Anions by 300.0 - Fluoride	88		80-120			2.7		2.7		1 (1)	20
11a Anions by 300.0 - Nitrate	112		80-120			1.6		1.6		3 (1)	20
Batch number: 10351351201B	Sample number(s): 6162822-6162823,6162825-6162832 UNSPK: 6162822 BKG: 6162822										
11a Anions by 300.0 - Fluoride	91		80-120			1.4		1.3		8 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			1.3	J	1.2	J	8 (1)	20
Batch number: 10352352201A	Sample number(s): 6162833 UNSPK: P162864 BKG: P162864										
11a Anions by 300.0 - Fluoride	99		80-120			1.7		1.3		28* (1)	20
Batch number: 10352352202B	Sample number(s): 6162812-6162816 UNSPK: P162788 BKG: P162788										
7a Perchlorate EPA 314.0	100		80-120			9.0	U	10.1	J	200* (1)	15
Batch number: 10354354201A	Sample number(s): 6162817-6162823,6162825-6162829 UNSPK: 6162822 BKG: 6162822										
7a Perchlorate EPA 314.0	91		80-120			9.0	U	9.0	U	0 (1)	15

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10354354201B	Sample number(s): 6162830-6162833 UNSPK: 6162831 BKG: 6162831								
7a Perchlorate EPA 314.0	89		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10355243203A	Sample number(s): 6162812-6162823,6162825-6162833 UNSPK: 6162822 BKG: 6162822								
3a Cr VI by EPA 7199	93		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 10357102201A	Sample number(s): 6162827-6162828 UNSPK: 6162827 BKG: 6162827								
21a Cyanide by 9012B	105		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10347039403A	Sample number(s): 6162812 BKG: P162785								
22a pH by 9045C						7.24	7.25	0	1
Batch number: 10347039403B	Sample number(s): 6162813-6162822,6162825-6162826 BKG: 6162822								
22a pH by 9045C						8.27	8.27	0	1
Batch number: 10347182103A	Sample number(s): 6162812 BKG: P162785								
Oxidation Reduction Potential						497	497	0	6
Batch number: 10347182103B	Sample number(s): 6162813-6162822,6162825-6162826 BKG: 6162822								
Oxidation Reduction Potential						386	386	0	6
Batch number: 10348039401A	Sample number(s): 6162827-6162833 BKG: 6162827								
22a pH by 9045C						8.13	8.11	0	1
Batch number: 10348182101A	Sample number(s): 6162827-6162833 BKG: 6162827								
Oxidation Reduction Potential						396	396	0	6
Batch number: 10348162401A	Sample number(s): 6162813-6162816,6162819-6162821 BKG: 6162820								
28a Moisture Content by 160.3						7.7	7.8	1	20
Batch number: 10348162401B	Sample number(s): 6162822-6162826,6162829-6162833 BKG: 6162822								
28a Moisture Content by 160.3						8.5	8.0	6	20
28a Moisture Content by 160.3						8.5	8.0	6	20
28a Moisture Content by 160.3						8.5	8.0	6	20
Batch number: 10357162401A	Sample number(s): 6162812,6162817-6162818,6162827-6162828 BKG: 6162818								
28a Moisture Content by 160.3						10	10.2	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6162812	105	102	95	91
6162817	104	99	97	91

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Surrogate Quality Control

6162818	104	99	96	91
6162827	106	102	95	91
6162828	105	99	97	90
Blank	104	106	95	92
LCS	100	102	99	98
LCSD	100	103	99	98
MS	101	102	99	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103492AA

	Toluene-d8
6162812	99
6162817	99
6162818	100
6162827	100
6162828	100
Blank	101
LCS	101
LCSD	101
Limits:	70-130

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10348SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162812	94	92	88	90	96	100
6162813	94	90	82	85	92	99
6162814	91	88	87	79	87	100
6162815	100	94	85	85	92	100
6162816	95	91	88	86	96	98
6162817	95	92	85	86	92	98
6162818	93	91	84	85	93	95
6162819	96	93	85	89	97	96
6162820	96	92	84	85	97	95
6162821	91	88	84	82	92	95
6162822	91	89	85	82	88	91
6162823	91	88	90	84	89	97
6162824	96	93	89	87	94	99
6162826	94	93	79	90	96	95
6162827	91	90	79	89	95	97
6162828	98	95	83	91	99	96
6162829	98	95	83	92	93	90
6162830	94	91	85	84	87	89
6162831	89	90	84	89	91	80
6162832	0*	0*	0*	0*	0*	0*
6162833	88	88	90	87	91	85
Blank	92	89	91	87	90	89
LCS	99	96	92	89	92	90
MS	91	88	90	84	89	97
MSD	96	93	89	87	94	99
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Surrogate Quality Control

Batch number: 10348SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162812	97	86	83
6162813	97	84	83
6162814	96	86	86
6162815	98	86	94
6162816	100	87	85
6162817	99	87	85
6162818	94	83	86
6162819	93	83	88
6162820	94	83	83
6162821	95	83	87
6162822	91	84	94
6162823	96	84	80
6162824	103	86	85
6162826	98	87	91
6162827	97	84	91
6162828	86	76	83
6162829	99	86	94
6162830	100	86	88
6162831	99	83	102
6162832	95	86	96
6162833	94	85	94
Blank	86	80	96
LCS	90	83	93
MS	96	84	80
MSD	103	86	85
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10349SLE026

	N-Nitrosodimethylamine-d6
6162812	101
6162817	91
6162818	92
6162827	101
6162828	89
Blank	98
LCS	90
MS	91
MSD	103
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10348A34A

	Trifluorotoluene-F
6162812	88
6162817	91
6162818	89
6162827	85
6162828	92

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Surrogate Quality Control

Blank	94	
LCS	96	
LCSD	90	
Limits:	61-122	

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103470023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162812	102	99
6162813	94	93
6162814	108	108
6162815	110	118
6162816	121	108
6162817	115	123
6162818	92	88
6162819	112	105
6162820	115	118
6162821	111	111
6162822	100	104
6162823	124	116
6162824	132	125*
6162826	132	103
6162827	133	136*
6162828	143*	132
6162829	119	105
6162830	116	100
6162831	132	118
6162832	115	100
6162833	120	110
Blank	100	116
LCS	92	124*
LCSD	87	116
MS	124	116
MSD	132	125*
Limits:	53-139	53-142

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103480007A

	Butyraldehyde
6162812	106
6162817	105
6162818	101
6162827	100
6162828	100
Blank	102
LCS	100
MS	102
MSD	99
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 103480012A

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Surrogate Quality Control

	2-Nitro-m-xylene
6162812	107
6162817	130
6162818	115
6162827	114
6162828	115
Blank	116
LCS	116
LCSD	113
MS	114
MSD	105
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103480022A

	2,4-Dichlorophenylacetic acid
6162812	102
6162813	91
6162814	84
6162815	105
6162816	97
6162817	132
6162818	96
6162819	100
6162820	102
6162821	148
6162822	85
6162823	102
6162824	101
6162826	111
6162827	48
6162828	116
6162829	127
6162830	103
6162831	113
6162832	112
6162833	106
Blank	92
LCS	94
MS	102
MSD	101
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 103480023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162812	84	81
6162813	84	96
6162814	65	65
6162816	81	53
6162817	78	108

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Surrogate Quality Control

6162818	87	55
6162819	80	69
6162821	90	44
6162826	68	26
6162827	56	54
6162828	73	70
6162829	85	80
6162830	68	73
6162831	73	231*
6162832	58	59
6162833	74	78
Blank	88	105
LCS	90	110
MS	88	141*
MSD	63	95
Limits:	50-130	20-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103560019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162815	55	40
6162820	60	22
6162822	57	81
6162823	55	44
6162824	65	71
Blank	78	86
LCS	84	101
MS	55	44
MSD	65	71
Limits:	50-130	20-120

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103470024A

	Chlorobenzene	Orthoterphenyl
6162812	74	90
Blank	80	89
LCS	82	86
MS	78	83
MSD	82	88
Limits:	37-125	47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 103480002A

	Acetone
6162812	116
6162817	93
6162818	108
6162827	88
6162828	97
Blank	131
LCS	109

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225033
Reported: 01/17/11 at 12:01 PM

Surrogate Quality Control

MS	95
MSD	95

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103480018A

Tetramethylene glycol

6162812	94
6162817	83
6162818	88
6162827	79
6162828	92
Blank	94
LCS	100
MS	100
MSD	85

Limits: 50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103480030A

n-Triacontane-d62

6162812	94
6162817	100
6162818	93
6162827	97
6162828	94
Blank	99
LCS	96
MS	97
MSD	98

Limits: 50-150

*- Outside of specification
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acct# 13013 Cp# 1225033 Sample# 6162812-33

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLES

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-017-SA5B-SS-0.0-0.5	12/8/10	1530	soil	none	3 stainless steel sleeves			X						X													MS/MSD sample
SL-022-SA5B-SS-0.0-0.5	12/8/10	1545	soil	none	1 x 16 oz. jar						X	X	X		X	X											
SL-022-SA5B-SS-0.0-0.5	12/8/10	1545	soil	none	1 x 16 oz. jar					X								X	X	X	X	X	X	X	X	X	
SL-022-SA5B-SS-0.0-0.5	12/8/10	1545	soil	none	1 stainless steel sleeve			X						X													
SL-029-SA5B-SS-0.0-0.5	12/8/10	1427	soil	none	1 stainless steel sleeve			X						X													
SL-031-SA5B-SS-0.0-0.5	12/8/10	1515	soil	none	1 x 16 oz. jar						X	X	X		X	X											
SL-031-SA5B-SS-0.0-0.5	12/8/10	1515	soil	none	1 stainless steel sleeve			X						X													
SL-034-SA5B-SS-0.0-0.5	12/8/10	1325	soil	none	1 stainless steel sleeve			X						X													
SL-035-SASB-SS-0.0-0.5	12/8/10	1400	soil	none	1 stainless steel sleeve			X						X													
SL-036-SA5B-SS-0.0-0.5	12/8/10	1345	soil	none	1 stainless steel sleeve			X						X													
SL-294-SASB-SS-0.0-0.5	12/8/10	1447	soil	none	1 x 16 oz. jar						X	X	X		X	X											
SL-294-SA5B-SS-0.0-0.5	12/8/10	1447	soil	none	1 stainless steel sleeve			X						X													
SL-307-SASB-SS-0.0-0.5	12/8/10	1415	soil	none	1 x 16 oz. jar						X	X	X		X	X											
SL-307-SA5B-SS-0.0-0.5	12/8/10	1415	soil	none	1 stainless steel sleeve			X						X													
DUP-01-SASB-QC-120810	12/8/10	1532	soil	none	1 x 16 oz. jar						X	X	X		X	X											
DUP-01-SA5B-QC-120810	12/8/10	1532	soil	none	1 stainless steel sleeve			X						X													

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.	
		00732992 Tracking Number 869514317097	

Laboratory: Lancaster Laboratories, Inc.

Cooler 1

869514317097

Acct# 13013 Grp# 1225033 Sample# 6162812-33

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
***Primary Analyses as indicated on sample labels**
****Secondary Analyses as indicated on sample labels**
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X	X	X	
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	1 stainless steel sleeve			X						X															
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X	X	X	
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	1 stainless steel sleeve			X						X															

BB 12/9/10

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time
	12.09.10 1630		12/10/10 915
Received by: *(Signature)*	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317097	

Laboratory:
Lancaster Laboratories, Inc.

Cooler 1

acct# 13013 Cyp# 1225033 sample# 61162812-33

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLES

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA5B-SS-0.0-0.5	12/09/10	0953	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-001-SA5B-SS-0.0-0.5	12/09/10	0953	soil	none	1 stainless steel sleeve			X						X															
SL-006-SA5B-SS-0.0-0.5	12/09/10	1245	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-006-SA5B-SS-0.0-0.5	12/09/10	1245	soil	none	1 stainless steel sleeve			X						X															
SL-010-SA5B-SS-0.0-0.5	12/09/10	1235	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-010-SA5B-SS-0.0-0.5	12/09/10	1235	soil	none	1 stainless steel sleeve			X						X															
SL-012-SA5B-SS-0.0-0.5MS	12/09/10	1247	soil	none	2 x 16 oz. jar						X	X	X		X	X	X	X	X										MS/MSD Sample
SL-012-SA5B-SS-0.0-0.5MS	12/09/10	1247	soil	none	2 stainless steel sleeves			X						X															MS/MSD Sample
SL-013-SA5B-SS-0.0-0.5	12/09/10	1307	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-013-SA5B-SS-0.0-0.5	12/09/10	1307	soil	none	1 stainless steel sleeve			X						X															
SL-018-SA5B-SS-0.0-0.5	12/09/10	0845	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-018-SA5B-SS-0.0-0.5	12/9/10	0845	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X	X	X	
SL-018-SA5B-SS-0.0-0.5	12/09/10	0845	soil	none	1 stainless steel sleeve			X						X															
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X	X	X	
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	1 stainless steel sleeve			X						X															

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.09.10 1630		12/10/10 915	Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Airbill No. 00732992 Tracking Number 869514317101		Cooler 2

acct# 13013 Ap# 1225033 sample# 6162812-33

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLES

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-306-SA5B-SS-0.0-0.5	12/9/10	0927	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-306-SA5B-SS-0.0-0.5	12/9/10	0927	soil	none	1 stainless steel sleeve			X						X															
DUP-02-SA5B-QC-120910	12/9/10	1250	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
DUP-02-SA5B-QC-120910	12/9/10	1250	soil	none	1 stainless steel sleeve			X						X															
SL-291-SA5B-SS-0.0-0.5	12/9/10	1310	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-291-SA5B-SS-0.0-0.5	12/9/10	1310	soil	none	1 stainless steel sleeve			X						X															

BB 12/9/10

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317101	

Laboratory: Lancaster Laboratories, Inc.

Cooler 2

acct#1303 Cp# 1225033 sample# 6162812-33

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLING

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-002-SA5B-SS-0.0-0.5	12/9/10	1410	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X									
SL-002-SA5B-SS-0.0-0.5	12/9/10	1410	soil	none	1 stainless steel sleeve			X						X														
SL-007-SA5B-SS-0.0-0.5	12/9/10	1450	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X									
SL-007-SA5B-SS-0.0-0.5	12/9/10	1450	soil	none	1 stainless steel sleeve			X						X														

PB 12/9/10

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time
	12.09.10 1630		12/10/10 915
Received by: *(Signature)*	**Date/Time**	**Airbill No**	
		00732992 Tracking Number 869514317969	

Laboratory: Lancaster Laboratories, Inc.

Cooler 5

869514317969

acct#13013 qp# 1225033 sample# 6162812-33

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-018-SA5B-SS-0.0-0.5	12/8/10	1530	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5B-SS-0.0-0.5	12/8/10	1545	soil	none	5 Encore samplers	X	X		X																				
SL-016-SA5C-SB-4.5	12/8/10	1605	soil	none	5 Encore samplers	X	X		X																				
SL-016-SA5C-SB-9.5	12/8/10	1615	soil	none	5 Encore samplers	X	X		X																				

PB 12/8/10

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.08.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.: 00732992 Tracking Number 869514318211	

Laboratory: Lancaster Laboratories, Inc.

Cooler 1

869514318211

acct# 13013 Gp# 1225033 Sample# 6162812-33

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-01-SA5B-120910	12/9/10	1210	water	none	7-1 liter amber			X						X	X			X	X										
EB-01-SA5B-120910	12/9/10	1210	water	none	1-500 ml poly							X	X			X									X				
EB-01-SA5B-120910	12/9/10	1210	water	HNO3	1-500 ml poly						X																		
SL-017-SA5C-SB-4.5	12/9/10	1016	soil	none	5 Encore samplers	X	X		X																				
SL-017-SA5C-SB-9.5	12/9/10	1028	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5C-SB-4.5	12/9/10	0949	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5C-SB-9.5	12/9/10	1000	soil	none	5 Encore samplers	X	X		X																				
SL-012-SA5C-SB-4.5	12/9/10	1300	soil	none	5 Encore samplers	X	X		X																				
SL-012-SA5C-SB-9.5	12/9/10	1310	soil	none	5 Encore samplers	X	X		X																				
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	5 Encore samplers	X	X		X																				
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	5 Encore samplers	X	X		X																				
SL-018-SA5B-SS-0.0-0.5	12/9/10	0845	soil	none	5 Encore samplers	X	X		X																				
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	5 Encore samplers	X	X		X																				
SL-013-SA5C-SB-9.5	12/9/10	1348	soil	none	5 Encore samplers	X	X		X																				
SL-013-SA5C-SB-4.5	12/9/10	1340	soil	none	5 Encore samplers	X	X		X																				
TB-120910	12/9/10	1630	soil	none	5 Encore samplers	X	X		X																				

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time
	12.09.10 1630		12/10/10 915
Received by: *(Signature)*	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317774	

Laboratory:
Lancaster Laboratories, Inc.

Cooler 4

869514317774

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 31, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/10/2010
Group Number: 1225034
SDG: DX016
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-022-SA5B-SS-0.0-0.5 Soil	6162834
SL-031-SA5B-SS-0.0-0.5 Soil	6162835
SL-294-SA5B-SS-0.0-0.5 Soil	6162836
SL-307-SA5B-SS-0.0-0.5 Soil	6162837
DUP-01-SA5B-QC-120810 Soil	6162838
SL-011-SA5B-SS-0.0-0.5 Soil	6162839
SL-014-SA5B-SS-0.0-0.5 Soil	6162840
SL-001-SA5B-SS-0.0-0.5 Soil	6162841
SL-006-SA5B-SS-0.0-0.5 Soil	6162842
SL-010-SA5B-SS-0.0-0.5 Soil	6162843
SL-012-SA5B-SS-0.0-0.5 Soil	6162844
SL-012-SA5B-SS-0.0-0.5MS Soil	6162845
SL-012-SA5B-SS-0.0-0.5MSD Soil	6162846
SL-013-SA5B-SS-0.0-0.5 Soil	6162847
SL-018-SA5B-SS-0.0-0.5 Soil	6162848
SL-020-SA5B-SS-0.0-0.5 Soil	6162849
SL-306-SA5B-SS-0.0-0.5 Soil	6162850
DUP-02-SA5B-QC-120910 Soil	6162851
SL-291-SA5B-SS-0.0-0.5 Soil	6162852
SL-002-SA5B-SS-0.0-0.5 Soil	6162853
SL-007-SA5B-SS-0.0-0.5 Soil	6162854

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-022-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162834
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1601 SDG#: DX016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162834
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1601 SDG#: DX016-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0402	JBQ	0.0163	1.09	1
11031	12378-PeCDD	40321-76-4	0.0944	JBQ	0.0248	5.47	1
11031	123478-HxCDD	39227-28-6	0.186	JB	0.0462	5.47	1
11031	123678-HxCDD	57653-85-7	0.515	JB	0.0488	5.47	1
11031	123789-HxCDD	19408-74-3	0.371	JB	0.0472	5.47	1
11031	1234678-HpCDD	35822-46-9	17.1	B	0.0549	5.47	1
11031	OCDD	3268-87-9	237	B	0.0575	10.9	1
11031	2378-TCDF	51207-31-9	0.0295	U	0.0295	1.09	1
11031	12378-PeCDF	57117-41-6	0.162	JB	0.0204	5.47	1
11031	23478-PeCDF	57117-31-4	0.197	JBQ	0.0189	5.47	1
11031	123478-HxCDF	70648-26-9	0.174	JBQ	0.0334	5.47	1
11031	123678-HxCDF	57117-44-9	0.159	JBQ	0.0306	5.47	1
11031	123789-HxCDF	72918-21-9	0.143	JB	0.0356	5.47	1
11031	234678-HxCDF	60851-34-5	0.220	JB	0.0327	5.47	1
11031	1234678-HpCDF	67562-39-4	2.06	JB	0.0225	5.47	1
11031	1234789-HpCDF	55673-89-7	0.188	JBQ	0.0304	5.47	1
11031	OCDF	39001-02-0	4.74	JB	0.0293	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162834
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1601 SDG#: DX016-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SS-0.0-0.5

LLI Sample # SW 6162834
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1601 SDG#: DX016-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/22/2010 19:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162835
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1602 SDG#: DX016-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-031-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162835
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1602 SDG#: DX016-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0462 JBQ	0.0136	1.09	1
11031	12378-PeCDD	40321-76-4	0.0807 JBQ	0.0195	5.44	1
11031	123478-HxCDD	39227-28-6	0.0580 JBQ	0.0358	5.44	1
11031	123678-HxCDD	57653-85-7	0.329 JB	0.0359	5.44	1
11031	123789-HxCDD	19408-74-3	0.248 JBQ	0.0371	5.44	1
11031	1234678-HpCDD	35822-46-9	9.98 B	0.0447	5.44	1
11031	OCDD	3268-87-9	119 B	0.0578	10.9	1
11031	2378-TCDF	51207-31-9	0.0280 JBQ	0.0187	1.09	1
11031	12378-PeCDF	57117-41-6	0.104 JB	0.0144	5.44	1
11031	23478-PeCDF	57117-31-4	0.169 JB	0.0138	5.44	1
11031	123478-HxCDF	70648-26-9	0.172 JBQ	0.0337	5.44	1
11031	123678-HxCDF	57117-44-9	0.151 JB	0.0301	5.44	1
11031	123789-HxCDF	72918-21-9	0.158 JBQ	0.0374	5.44	1
11031	234678-HxCDF	60851-34-5	0.232 JB	0.0326	5.44	1
11031	1234678-HpCDF	67562-39-4	1.74 JB	0.0244	5.44	1
11031	1234789-HpCDF	55673-89-7	0.211 JB	0.0361	5.44	1
11031	OCDF	39001-02-0	2.96 JB	0.0317	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162835
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1602 SDG#: DX016-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SS-0.0-0.5

LLI Sample # SW 6162835
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1602 SDG#: DX016-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 21:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

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Analysis Report

Sample Description: **SL-294-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162836
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1603 SDG#: DX016-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-294-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162836
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1603 SDG#: DX016-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0306	JBQ	0.0162	1.08	1
11031	12378-PeCDD	40321-76-4	0.159	JBQ	0.0281	5.42	1
11031	123478-HxCDD	39227-28-6	0.153	JB	0.0444	5.42	1
11031	123678-HxCDD	57653-85-7	0.468	JBQ	0.0440	5.42	1
11031	123789-HxCDD	19408-74-3	0.419	JB	0.0435	5.42	1
11031	1234678-HpCDD	35822-46-9	12.4	B	0.0425	5.42	1
11031	OCDD	3268-87-9	154	B	0.0539	10.8	1
11031	2378-TCDF	51207-31-9	0.0293	JBQ	0.0206	1.08	1
11031	12378-PeCDF	57117-41-6	0.0523	JBQ	0.0167	5.42	1
11031	23478-PeCDF	57117-31-4	0.163	JBQ	0.0159	5.42	1
11031	123478-HxCDF	70648-26-9	0.165	JB	0.0335	5.42	1
11031	123678-HxCDF	57117-44-9	0.136	JBQ	0.0305	5.42	1
11031	123789-HxCDF	72918-21-9	0.136	JBQ	0.0364	5.42	1
11031	234678-HxCDF	60851-34-5	0.244	JB	0.0332	5.42	1
11031	1234678-HpCDF	67562-39-4	2.04	JB	0.0201	5.42	1
11031	1234789-HpCDF	55673-89-7	0.172	JB	0.0302	5.42	1
11031	OCDF	39001-02-0	3.76	JB	0.0318	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162836
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1603 SDG#: DX016-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SS-0.0-0.5

LLI Sample # SW 6162836
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1603 SDG#: DX016-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/22/2010 20:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162837
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1604 SDG#: DX016-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-307-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162837
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1604 SDG#: DX016-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0242 U	0.0242	1.09	1
11031	12378-PeCDD	40321-76-4	0.0680 JBQ	0.0271	5.47	1
11031	123478-HxCDD	39227-28-6	0.0494 JBQ	0.0324	5.47	1
11031	123678-HxCDD	57653-85-7	0.200 JB	0.0337	5.47	1
11031	123789-HxCDD	19408-74-3	0.145 JBQ	0.0326	5.47	1
11031	1234678-HpCDD	35822-46-9	5.60 B	0.0453	5.47	1
11031	OCDD	3268-87-9	71.3 B	0.0707	10.9	1
11031	2378-TCDF	51207-31-9	0.0313 U	0.0313	1.09	1
11031	12378-PeCDF	57117-41-6	0.0852 JB	0.0198	5.47	1
11031	23478-PeCDF	57117-31-4	0.117 JB	0.0199	5.47	1
11031	123478-HxCDF	70648-26-9	0.127 JB	0.0342	5.47	1
11031	123678-HxCDF	57117-44-9	0.143 JBQ	0.0303	5.47	1
11031	123789-HxCDF	72918-21-9	0.138 JBQ	0.0433	5.47	1
11031	234678-HxCDF	60851-34-5	0.205 JB	0.0344	5.47	1
11031	1234678-HpCDF	67562-39-4	1.08 JB	0.0288	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0935 JBQ	0.0451	5.47	1
11031	OCDF	39001-02-0	1.91 JB	0.0484	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162837
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1604 SDG#: DX016-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SS-0.0-0.5

LLI Sample # SW 6162837
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1604 SDG#: DX016-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/22/2010 21:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-01-SA5B-QC-120810 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162838
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1605 SDG#: DX016-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-01-SA5B-QC-120810 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162838
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1605 SDG#: DX016-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0179	JBQ	0.0117	1.09	1
11031	12378-PeCDD	40321-76-4	0.0698	JB	0.0234	5.45	1
11031	123478-HxCDD	39227-28-6	0.0716	JB	0.0338	5.45	1
11031	123678-HxCDD	57653-85-7	0.473	JB	0.0345	5.45	1
11031	123789-HxCDD	19408-74-3	0.400	JB	0.0340	5.45	1
11031	1234678-HpCDD	35822-46-9	13.9	B	0.0379	5.45	1
11031	OCDD	3268-87-9	204	B	0.0505	10.9	1
11031	2378-TCDF	51207-31-9	0.0631	JBQ	0.0227	1.09	1
11031	12378-PeCDF	57117-41-6	0.102	JB	0.0140	5.45	1
11031	23478-PeCDF	57117-31-4	0.138	JBQ	0.0133	5.45	1
11031	123478-HxCDF	70648-26-9	0.160	JBQ	0.0238	5.45	1
11031	123678-HxCDF	57117-44-9	0.164	JBQ	0.0222	5.45	1
11031	123789-HxCDF	72918-21-9	0.130	JBQ	0.0278	5.45	1
11031	234678-HxCDF	60851-34-5	0.196	JB	0.0234	5.45	1
11031	1234678-HpCDF	67562-39-4	1.80	JB	0.0156	5.45	1
11031	1234789-HpCDF	55673-89-7	0.149	JB	0.0222	5.45	1
11031	OCDF	39001-02-0	3.90	JB	0.0239	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-01-SA5B-QC-120810 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162838
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1605 SDG#: DX016-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-01-SA5B-QC-120810 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5B-QC-120810

LLI Sample # SW 6162838
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:32

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1605 SDG#: DX016-05FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/22/2010 22:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162839
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1606 SDG#: DX016-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162839
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1606 SDG#: DX016-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0510	JBQ	0.0163	1.09	1
11031	12378-PeCDD	40321-76-4	0.487	JB	0.0369	5.46	1
11031	123478-HxCDD	39227-28-6	0.640	JB	0.0448	5.46	1
11031	123678-HxCDD	57653-85-7	1.77	JB	0.0452	5.46	1
11031	123789-HxCDD	19408-74-3	1.31	JB	0.0433	5.46	1
11031	1234678-HpCDD	35822-46-9	48.3	B	0.0699	5.46	1
11031	OCDD	3268-87-9	719	B	0.107	10.9	1
11031	2378-TCDF	51207-31-9	0.0658	JBQ	0.0272	1.09	1
11031	12378-PeCDF	57117-41-6	0.192	JBQ	0.0199	5.46	1
11031	23478-PeCDF	57117-31-4	0.296	JB	0.0198	5.46	1
11031	123478-HxCDF	70648-26-9	0.470	JB	0.0373	5.46	1
11031	123678-HxCDF	57117-44-9	0.409	JB	0.0374	5.46	1
11031	123789-HxCDF	72918-21-9	0.203	JBQ	0.0401	5.46	1
11031	234678-HxCDF	60851-34-5	0.565	JB	0.0368	5.46	1
11031	1234678-HpCDF	67562-39-4	7.15	B	0.0312	5.46	1
11031	1234789-HpCDF	55673-89-7	0.540	JB	0.0412	5.46	1
11031	OCDF	39001-02-0	20.6	B	0.0329	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162839
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1606 SDG#: DX016-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5B-SS-0.0-0.5

LLI Sample # SW 6162839
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:05

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1606 SDG#: DX016-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/22/2010 23:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162840
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1607 SDG#: DX016-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	10	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162840
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1607 SDG#: DX016-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0274 JBQ	0.0159	1.11	1
11031	12378-PeCDD	40321-76-4	0.101 JBQ	0.0208	5.56	1
11031	123478-HxCDD	39227-28-6	0.0779 JB	0.0324	5.56	1
11031	123678-HxCDD	57653-85-7	0.210 JB	0.0333	5.56	1
11031	123789-HxCDD	19408-74-3	0.179 JBQ	0.0319	5.56	1
11031	1234678-HpCDD	35822-46-9	6.67 B	0.0400	5.56	1
11031	OCDD	3268-87-9	98.8 B	0.0537	11.1	1
11031	2378-TCDF	51207-31-9	0.0468 JBQ	0.0193	1.11	1
11031	12378-PeCDF	57117-41-6	0.162 JBQ	0.0150	5.56	1
11031	23478-PeCDF	57117-31-4	0.186 JB	0.0146	5.56	1
11031	123478-HxCDF	70648-26-9	0.195 JB	0.0280	5.56	1
11031	123678-HxCDF	57117-44-9	0.162 JB	0.0253	5.56	1
11031	123789-HxCDF	72918-21-9	0.0995 JBQ	0.0322	5.56	1
11031	234678-HxCDF	60851-34-5	0.226 JB	0.0274	5.56	1
11031	1234678-HpCDF	67562-39-4	1.34 JB	0.0179	5.56	1
11031	1234789-HpCDF	55673-89-7	0.142 JB	0.0294	5.56	1
11031	OCDF	39001-02-0	2.28 JB	0.0330	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162840
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1607 SDG#: DX016-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-014-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SS-0.0-0.5

LLI Sample # SW 6162840
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:15

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1607 SDG#: DX016-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 00:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-001-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162841
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1608 SDG#: DX016-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162841
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1608 SDG#: DX016-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0569	JBQ	0.0139	1.06	1
11031	12378-PeCDD	40321-76-4	0.159	JB	0.0212	5.32	1
11031	123478-HxCDD	39227-28-6	0.231	JB	0.0450	5.32	1
11031	123678-HxCDD	57653-85-7	0.695	JB	0.0445	5.32	1
11031	123789-HxCDD	19408-74-3	0.544	JBQ	0.0451	5.32	1
11031	1234678-HpCDD	35822-46-9	18.8	B	0.0427	5.32	1
11031	OCDD	3268-87-9	270	B	0.0594	10.6	1
11031	2378-TCDF	51207-31-9	0.0416	JBQ	0.0203	1.06	1
11031	12378-PeCDF	57117-41-6	0.107	JB	0.0141	5.32	1
11031	23478-PeCDF	57117-31-4	0.179	JB	0.0140	5.32	1
11031	123478-HxCDF	70648-26-9	0.224	JB	0.0323	5.32	1
11031	123678-HxCDF	57117-44-9	0.204	JBQ	0.0286	5.32	1
11031	123789-HxCDF	72918-21-9	0.152	JBQ	0.0316	5.32	1
11031	234678-HxCDF	60851-34-5	0.274	JBQ	0.0310	5.32	1
11031	1234678-HpCDF	67562-39-4	3.17	JB	0.0200	5.32	1
11031	1234789-HpCDF	55673-89-7	0.314	JB	0.0276	5.32	1
11031	OCDF	39001-02-0	6.54	JB	0.0233	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162841
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1608 SDG#: DX016-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5B-SS-0.0-0.5

LLI Sample # SW 6162841
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:53

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1608 SDG#: DX016-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 04:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

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Analysis Report

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162842
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1609 SDG#: DX016-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162842
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1609 SDG#: DX016-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0363	JBQ	0.0284	1.08	1
11031	12378-PeCDD	40321-76-4	0.354	JBQ	0.0447	5.42	1
11031	123478-HxCDD	39227-28-6	0.584	JBQ	0.102	5.42	1
11031	123678-HxCDD	57653-85-7	0.961	JBQ	0.100	5.42	1
11031	123789-HxCDD	19408-74-3	0.962	JB	0.112	5.42	1
11031	1234678-HpCDD	35822-46-9	29.9	B	0.100	5.42	1
11031	OCDD	3268-87-9	307	B	0.107	10.8	1
11031	2378-TCDF	51207-31-9	0.0338	U	0.0338	1.08	1
11031	12378-PeCDF	57117-41-6	0.0934	JBQ	0.0260	5.42	1
11031	23478-PeCDF	57117-31-4	0.172	JBQ	0.0258	5.42	1
11031	123478-HxCDF	70648-26-9	0.208	JB	0.0543	5.42	1
11031	123678-HxCDF	57117-44-9	0.385	JB	0.0503	5.42	1
11031	123789-HxCDF	72918-21-9	0.139	JBQ	0.0675	5.42	1
11031	234678-HxCDF	60851-34-5	0.419	JBQ	0.0554	5.42	1
11031	1234678-HpCDF	67562-39-4	4.58	JB	0.0433	5.42	1
11031	1234789-HpCDF	55673-89-7	0.366	JBQ	0.0622	5.42	1
11031	OCDF	39001-02-0	11.0	B	0.0442	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	46	25 - 164
13C12-12378-PeCDD	51	25 - 181
13C12-123478-HxCDD	48	32 - 141
13C12-123678-HxCDD	47	28 - 130
13C12-123789-HxCDD	46	28 - 130
13C12-1234678-HpCDD	46	23 - 140
13C12-OCDD	40	17 - 157
13C12-2378-TCDF	47	24 - 169
13C12-12378-PeCDF	55	24 - 185
13C12-23478-PeCDF	51	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	49	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162842
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1609 SDG#: DX016-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SS-0.0-0.5

LLI Sample # SW 6162842
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1609 SDG#: DX016-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 05:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

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Analysis Report

Sample Description: **SL-010-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162843
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1610 SDG#: DX016-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162843
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1610 SDG#: DX016-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.251	JB	0.0256	1.10	1
11031	12378-PeCDD	40321-76-4	2.47	JB	0.0762	5.51	1
11031	123478-HxCDD	39227-28-6	4.69	JB	0.0705	5.51	1
11031	123678-HxCDD	57653-85-7	16.3	B	0.0720	5.51	1
11031	123789-HxCDD	19408-74-3	9.47	B	0.0757	5.51	1
11031	1234678-HpCDD	35822-46-9	517	B	0.187	5.51	1
11031	OCDD	3268-87-9	6,840	EB	0.263	11.0	1
11031	2378-TCDF	51207-31-9	0.124	JB	0.0453	1.10	1
11031	12378-PeCDF	57117-41-6	0.657	JB	0.0333	5.51	1
11031	23478-PeCDF	57117-31-4	1.14	JB	0.0321	5.51	1
11031	123478-HxCDF	70648-26-9	3.90	JB	0.0667	5.51	1
11031	123678-HxCDF	57117-44-9	3.13	JB	0.0625	5.51	1
11031	123789-HxCDF	72918-21-9	1.44	JB	0.0698	5.51	1
11031	234678-HxCDF	60851-34-5	3.77	JB	0.0653	5.51	1
11031	1234678-HpCDF	67562-39-4	84.9	B	0.0714	5.51	1
11031	1234789-HpCDF	55673-89-7	5.39	JB	0.0913	5.51	1
11031	OCDF	39001-02-0	261	B	0.0535	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162843
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1610 SDG#: DX016-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5B-SS-0.0-0.5

LLI Sample # SW 6162843
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:35

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1610 SDG#: DX016-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 06:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401A	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162844
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162844
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0450 JBQ	0.0161	1.09	1
11031	12378-PeCDD	40321-76-4	0.295 JBQ	0.0290	5.46	1
11031	123478-HxCDD	39227-28-6	0.537 JB	0.0421	5.46	1
11031	123678-HxCDD	57653-85-7	1.27 JB	0.0440	5.46	1
11031	123789-HxCDD	19408-74-3	1.23 JB	0.0437	5.46	1
11031	1234678-HpCDD	35822-46-9	34.6 B	0.0673	5.46	1
11031	OCDD	3268-87-9	494 B	0.0798	10.9	1
11031	2378-TCDF	51207-31-9	0.0340 JBQ	0.0212	1.09	1
11031	12378-PeCDF	57117-41-6	0.0808 JBQ	0.0193	5.46	1
11031	23478-PeCDF	57117-31-4	0.171 JB	0.0176	5.46	1
11031	123478-HxCDF	70648-26-9	0.227 JB	0.0350	5.46	1
11031	123678-HxCDF	57117-44-9	0.307 JB	0.0326	5.46	1
11031	123789-HxCDF	72918-21-9	0.113 JB	0.0419	5.46	1
11031	234678-HxCDF	60851-34-5	0.445 JB	0.0352	5.46	1
11031	1234678-HpCDF	67562-39-4	5.36 JB	0.0313	5.46	1
11031	1234789-HpCDF	55673-89-7	0.372 JBQ	0.0467	5.46	1
11031	OCDF	39001-02-0	12.4 B	0.0364	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162844
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162844
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 07:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162845
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162845
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.3	B	0.0211	1.09	1
11031	12378-PeCDD	40321-76-4	108	B	0.0426	5.46	1
11031	123478-HxCDD	39227-28-6	111	B	0.0718	5.46	1
11031	123678-HxCDD	57653-85-7	111	B	0.0737	5.46	1
11031	123789-HxCDD	19408-74-3	111	B	0.0757	5.46	1
11031	1234678-HpCDD	35822-46-9	150	B	0.0689	5.46	1
11031	OCDD	3268-87-9	729	B	0.0773	10.9	1
11031	2378-TCDF	51207-31-9	20.9	B	0.0268	1.09	1
11031	12378-PeCDF	57117-41-6	112	B	0.0248	5.46	1
11031	23478-PeCDF	57117-31-4	108	B	0.0227	5.46	1
11031	123478-HxCDF	70648-26-9	108	B	0.0705	5.46	1
11031	123678-HxCDF	57117-44-9	109	B	0.0675	5.46	1
11031	123789-HxCDF	72918-21-9	110	B	0.0812	5.46	1
11031	234678-HxCDF	60851-34-5	111	B	0.0706	5.46	1
11031	1234678-HpCDF	67562-39-4	116	B	0.0471	5.46	1
11031	1234789-HpCDF	55673-89-7	111	B	0.0611	5.46	1
11031	OCDF	39001-02-0	234	B	0.0511	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162845
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162845
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 08:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162846
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162846
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
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Chantilly VA 20151

X1611 SDG#: DX016-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.7	B	0.0280	1.09	1
11031	12378-PeCDD	40321-76-4	107	B	0.0389	5.46	1
11031	123478-HxCDD	39227-28-6	113	B	0.0570	5.46	1
11031	123678-HxCDD	57653-85-7	107	B	0.0577	5.46	1
11031	123789-HxCDD	19408-74-3	111	B	0.0558	5.46	1
11031	1234678-HpCDD	35822-46-9	139	B	0.0795	5.46	1
11031	OCDD	3268-87-9	632	B	0.0966	10.9	1
11031	2378-TCDF	51207-31-9	21.3	B	0.0298	1.09	1
11031	12378-PeCDF	57117-41-6	109	B	0.0309	5.46	1
11031	23478-PeCDF	57117-31-4	109	B	0.0313	5.46	1
11031	123478-HxCDF	70648-26-9	109	B	0.0733	5.46	1
11031	123678-HxCDF	57117-44-9	109	B	0.0668	5.46	1
11031	123789-HxCDF	72918-21-9	110	B	0.0816	5.46	1
11031	234678-HxCDF	60851-34-5	109	B	0.0678	5.46	1
11031	1234678-HpCDF	67562-39-4	114	B	0.0574	5.46	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0797	5.46	1
11031	OCDF	39001-02-0	230	B	0.0645	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162846
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-012-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5B-SS-0.0-0.5

LLI Sample # SW 6162846
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:47

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1611 SDG#: DX016-11MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 09:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

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Analysis Report

Sample Description: **SL-013-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162847
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1612 SDG#: DX016-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162847
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1612 SDG#: DX016-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.766 JB	0.0419	1.08	1
11031	12378-PeCDD	40321-76-4	14.2 B	0.134	5.42	1
11031	123478-HxCDD	39227-28-6	30.6 B	0.146	5.42	1
11031	123678-HxCDD	57653-85-7	49.6 B	0.148	5.42	1
11031	123789-HxCDD	19408-74-3	63.7 B	0.155	5.42	1
11031	1234678-HpCDD	35822-46-9	1,460 B	0.431	5.42	1
11031	OCDD	3268-87-9	15,100 EB	1.04	10.8	1
11031	2378-TCDF	51207-31-9	0.267 JBQ	0.0844	1.08	1
11031	12378-PeCDF	57117-41-6	1.09 JB	0.0477	5.42	1
11031	23478-PeCDF	57117-31-4	2.52 JB	0.0435	5.42	1
11031	123478-HxCDF	70648-26-9	7.53 B	0.139	5.42	1
11031	123678-HxCDF	57117-44-9	16.1 B	0.129	5.42	1
11031	123789-HxCDF	72918-21-9	1.06 JB	0.162	5.42	1
11031	234678-HxCDF	60851-34-5	21.1 B	0.140	5.42	1
11031	1234678-HpCDF	67562-39-4	259 B	0.136	5.42	1
11031	1234789-HpCDF	55673-89-7	17.7 B	0.180	5.42	1
11031	OCDF	39001-02-0	628 B	0.208	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	54	23 - 140
13C12-OCDD	35	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	70	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162847
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1612 SDG#: DX016-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5B-SS-0.0-0.5

LLI Sample # SW 6162847
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:07

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1612 SDG#: DX016-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 10:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162848
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1613 SDG#: DX016-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162848
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1613 SDG#: DX016-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0154	U	0.0154	1.10	1
11031	12378-PeCDD	40321-76-4	0.0635	JBQ	0.0272	5.50	1
11031	123478-HxCDD	39227-28-6	0.112	JB	0.0407	5.50	1
11031	123678-HxCDD	57653-85-7	0.215	JBQ	0.0400	5.50	1
11031	123789-HxCDD	19408-74-3	0.227	JB	0.0437	5.50	1
11031	1234678-HpCDD	35822-46-9	6.53	B	0.0570	5.50	1
11031	OCDD	3268-87-9	89.0	B	0.137	11.0	1
11031	2378-TCDF	51207-31-9	0.0191	U	0.0191	1.10	1
11031	12378-PeCDF	57117-41-6	0.0735	JBQ	0.0157	5.50	1
11031	23478-PeCDF	57117-31-4	0.111	JBQ	0.0149	5.50	1
11031	123478-HxCDF	70648-26-9	0.0848	JBQ	0.0339	5.50	1
11031	123678-HxCDF	57117-44-9	0.0953	JBQ	0.0320	5.50	1
11031	123789-HxCDF	72918-21-9	0.114	JB	0.0394	5.50	1
11031	234678-HxCDF	60851-34-5	0.122	JBQ	0.0321	5.50	1
11031	1234678-HpCDF	67562-39-4	0.892	JB	0.0416	5.50	1
11031	1234789-HpCDF	55673-89-7	0.102	JBQ	0.0647	5.50	1
11031	OCDF	39001-02-0	2.11	JB	0.0909	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162848
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1613 SDG#: DX016-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-018-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SS-0.0-0.5

LLI Sample # SW 6162848
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:45

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1613 SDG#: DX016-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 11:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-020-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162849
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1614 SDG#: DX016-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162849
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1614 SDG#: DX016-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0265 JBQ	0.0239	1.09	1
11031	12378-PeCDD	40321-76-4	0.268 JB	0.0412	5.46	1
11031	123478-HxCDD	39227-28-6	0.428 JBQ	0.0722	5.46	1
11031	123678-HxCDD	57653-85-7	1.03 JB	0.0695	5.46	1
11031	123789-HxCDD	19408-74-3	0.898 JB	0.0641	5.46	1
11031	1234678-HpCDD	35822-46-9	28.7 B	0.0987	5.46	1
11031	OCDD	3268-87-9	427 B	0.159	10.9	1
11031	2378-TCDF	51207-31-9	0.0460 JBQ	0.0260	1.09	1
11031	12378-PeCDF	57117-41-6	0.106 JB	0.0231	5.46	1
11031	23478-PeCDF	57117-31-4	0.127 JBQ	0.0242	5.46	1
11031	123478-HxCDF	70648-26-9	0.230 JBQ	0.0584	5.46	1
11031	123678-HxCDF	57117-44-9	0.230 JB	0.0529	5.46	1
11031	123789-HxCDF	72918-21-9	0.178 JB	0.0591	5.46	1
11031	234678-HxCDF	60851-34-5	0.330 JB	0.0529	5.46	1
11031	1234678-HpCDF	67562-39-4	4.12 JB	0.0631	5.46	1
11031	1234789-HpCDF	55673-89-7	0.351 JB	0.0776	5.46	1
11031	OCDF	39001-02-0	10.9 B	0.0913	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	52	25 - 181
13C12-123478-HxCDD	47	32 - 141
13C12-123678-HxCDD	47	28 - 130
13C12-123789-HxCDD	53	28 - 130
13C12-1234678-HpCDD	43	23 - 140
13C12-OCDD	30	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	50	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	51	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	44	28 - 143
13C12-1234789-HpCDF	41	26 - 138
13C12-OCDF	27	17 - 157
13C12-1278-TCDD (CRS)	55	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-020-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162849
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1614 SDG#: DX016-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5B-SS-0.0-0.5

LLI Sample # SW 6162849
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1614 SDG#: DX016-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 12:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-306-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162850
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1615 SDG#: DX016-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-306-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162850
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1615 SDG#: DX016-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0667	JBQ	0.0146	1.10	1
11031	12378-PeCDD	40321-76-4	0.231	JBQ	0.0270	5.51	1
11031	123478-HxCDD	39227-28-6	0.277	JB	0.0380	5.51	1
11031	123678-HxCDD	57653-85-7	0.924	JBQ	0.0401	5.51	1
11031	123789-HxCDD	19408-74-3	0.747	JB	0.0395	5.51	1
11031	1234678-HpCDD	35822-46-9	26.5	B	0.0510	5.51	1
11031	OCDD	3268-87-9	420	B	0.0888	11.0	1
11031	2378-TCDF	51207-31-9	0.0361	JB	0.0233	1.10	1
11031	12378-PeCDF	57117-41-6	0.135	JB	0.0162	5.51	1
11031	23478-PeCDF	57117-31-4	0.206	JB	0.0151	5.51	1
11031	123478-HxCDF	70648-26-9	0.228	JB	0.0287	5.51	1
11031	123678-HxCDF	57117-44-9	0.228	JBQ	0.0260	5.51	1
11031	123789-HxCDF	72918-21-9	0.157	JBQ	0.0329	5.51	1
11031	234678-HxCDF	60851-34-5	0.279	JB	0.0282	5.51	1
11031	1234678-HpCDF	67562-39-4	3.48	JB	0.0234	5.51	1
11031	1234789-HpCDF	55673-89-7	0.255	JB	0.0303	5.51	1
11031	OCDF	39001-02-0	8.93	JB	0.0251	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-306-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162850
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1615 SDG#: DX016-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-306-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-306-SA5B-SS-0.0-0.5

LLI Sample # SW 6162850
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:27

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1615 SDG#: DX016-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 22:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-02-SA5B-QC-120910 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162851
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX016-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-02-SA5B-QC-120910 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162851
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX016-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0550 JBQ	0.0151	1.07	1
11031	12378-PeCDD	40321-76-4	0.288 JBQ	0.0298	5.37	1
11031	123478-HxCDD	39227-28-6	0.422 JB	0.0383	5.37	1
11031	123678-HxCDD	57653-85-7	1.12 JB	0.0402	5.37	1
11031	123789-HxCDD	19408-74-3	1.00 JB	0.0400	5.37	1
11031	1234678-HpCDD	35822-46-9	26.8 B	0.0545	5.37	1
11031	OCDD	3268-87-9	298 B	0.0835	10.7	1
11031	2378-TCDF	51207-31-9	0.0287 JBQ	0.0224	1.07	1
11031	12378-PeCDF	57117-41-6	0.0991 JB	0.0155	5.37	1
11031	23478-PeCDF	57117-31-4	0.168 JB	0.0146	5.37	1
11031	123478-HxCDF	70648-26-9	0.214 JB	0.0307	5.37	1
11031	123678-HxCDF	57117-44-9	0.308 JB	0.0295	5.37	1
11031	123789-HxCDF	72918-21-9	0.102 JBQ	0.0382	5.37	1
11031	234678-HxCDF	60851-34-5	0.380 JBQ	0.0293	5.37	1
11031	1234678-HpCDF	67562-39-4	4.63 JB	0.0213	5.37	1
11031	1234789-HpCDF	55673-89-7	0.288 JB	0.0296	5.37	1
11031	OCDF	39001-02-0	9.45 JB	0.0358	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-02-SA5B-QC-120910 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162851
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX016-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-02-SA5B-QC-120910 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5B-QC-120910

LLI Sample # SW 6162851
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1616 SDG#: DX016-16FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/23/2010 23:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-291-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162852
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1617 SDG#: DX016-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-291-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162852
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1617 SDG#: DX016-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.179	JB	0.0252	1.06	1
11031	12378-PeCDD	40321-76-4	2.14	JB	0.0725	5.32	1
11031	123478-HxCDD	39227-28-6	3.84	JB	0.0555	5.32	1
11031	123678-HxCDD	57653-85-7	7.39	B	0.0562	5.32	1
11031	123789-HxCDD	19408-74-3	8.22	B	0.0551	5.32	1
11031	1234678-HpCDD	35822-46-9	205	B	0.149	5.32	1
11031	OCDD	3268-87-9	2,250	B	0.192	10.6	1
11031	2378-TCDF	51207-31-9	0.141	JBQ	0.0459	1.06	1
11031	12378-PeCDF	57117-41-6	0.430	JBQ	0.0307	5.32	1
11031	23478-PeCDF	57117-31-4	0.747	JB	0.0298	5.32	1
11031	123478-HxCDF	70648-26-9	1.55	JB	0.0642	5.32	1
11031	123678-HxCDF	57117-44-9	1.99	JB	0.0626	5.32	1
11031	123789-HxCDF	72918-21-9	0.409	JBQ	0.0725	5.32	1
11031	234678-HxCDF	60851-34-5	2.95	JB	0.0621	5.32	1
11031	1234678-HpCDF	67562-39-4	36.6	B	0.0568	5.32	1
11031	1234789-HpCDF	55673-89-7	2.41	JB	0.0732	5.32	1
11031	OCDF	39001-02-0	84.7	B	0.0550	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-291-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162852
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1617 SDG#: DX016-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-291-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-291-SA5B-SS-0.0-0.5

LLI Sample # SW 6162852
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:10

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1617 SDG#: DX016-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/24/2010 00:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

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Analysis Report

Sample Description: **SL-002-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162853
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1618 SDG#: DX016-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	5.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162853
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1618 SDG#: DX016-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0559	JBQ	0.0196	1.05	1
11031	12378-PeCDD	40321-76-4	0.299	JB	0.0347	5.27	1
11031	123478-HxCDD	39227-28-6	0.477	JBQ	0.0543	5.27	1
11031	123678-HxCDD	57653-85-7	1.10	JB	0.0535	5.27	1
11031	123789-HxCDD	19408-74-3	0.997	JB	0.0544	5.27	1
11031	1234678-HpCDD	35822-46-9	33.1	B	0.0871	5.27	1
11031	OCDD	3268-87-9	400	B	0.130	10.5	1
11031	2378-TCDF	51207-31-9	0.0441	JB	0.0238	1.05	1
11031	12378-PeCDF	57117-41-6	0.146	JB	0.0220	5.27	1
11031	23478-PeCDF	57117-31-4	0.173	JB	0.0219	5.27	1
11031	123478-HxCDF	70648-26-9	0.294	JBQ	0.0447	5.27	1
11031	123678-HxCDF	57117-44-9	0.348	JB	0.0454	5.27	1
11031	123789-HxCDF	72918-21-9	0.179	JB	0.0557	5.27	1
11031	234678-HxCDF	60851-34-5	0.442	JBQ	0.0446	5.27	1
11031	1234678-HpCDF	67562-39-4	5.04	JB	0.0386	5.27	1
11031	1234789-HpCDF	55673-89-7	0.502	JB	0.0562	5.27	1
11031	OCDF	39001-02-0	9.92	JB	0.0619	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162853
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1618 SDG#: DX016-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5B-SS-0.0-0.5

LLI Sample # SW 6162853
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:10

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1618 SDG#: DX016-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/24/2010 01:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

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Analysis Report

Sample Description: **SL-007-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162854
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1619 SDG#: DX016-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Total Solids by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162854
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1619 SDG#: DX016-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0684	JB	0.0152	1.07	1
11031	12378-PeCDD	40321-76-4	0.502	JBQ	0.0328	5.36	1
11031	123478-HxCDD	39227-28-6	0.752	JB	0.0442	5.36	1
11031	123678-HxCDD	57653-85-7	1.78	JB	0.0446	5.36	1
11031	123789-HxCDD	19408-74-3	2.02	JB	0.0452	5.36	1
11031	1234678-HpCDD	35822-46-9	49.9	B	0.0539	5.36	1
11031	OCDD	3268-87-9	563	B	0.0837	10.7	1
11031	2378-TCDF	51207-31-9	0.0239	U	0.0239	1.07	1
11031	12378-PeCDF	57117-41-6	0.128	JB	0.0168	5.36	1
11031	23478-PeCDF	57117-31-4	0.201	JB	0.0158	5.36	1
11031	123478-HxCDF	70648-26-9	0.350	JB	0.0351	5.36	1
11031	123678-HxCDF	57117-44-9	0.483	JB	0.0339	5.36	1
11031	123789-HxCDF	72918-21-9	0.164	JB	0.0412	5.36	1
11031	234678-HxCDF	60851-34-5	0.645	JB	0.0347	5.36	1
11031	1234678-HpCDF	67562-39-4	7.81	B	0.0308	5.36	1
11031	1234789-HpCDF	55673-89-7	0.513	JB	0.0396	5.36	1
11031	OCDF	39001-02-0	17.7	B	0.0299	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162854
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1619 SDG#: DX016-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5B-SS-0.0-0.5

LLI Sample # SW 6162854
LLI Group # 1225034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 14:50

Submitted: 12/10/2010 09:15
Reported: 12/31/2010 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1619 SDG#: DX016-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10354001	12/24/2010 01:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10354001	12/20/2010 15:00	Ginelle L Haines	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10348162401B	12/14/2010 10:17	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225034
Reported: 12/31/10 at 10:14 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10348162401A	Sample number(s): 6162835-6162838,6162841-6162843								
28a Total Solids by 160.3					100		80-120		
Batch number: 10348162401B	Sample number(s): 6162844-6162847,6162850-6162854								
28a Total Solids by 160.3					100		80-120		
Batch number: 10357162401A	Sample number(s): 6162834,6162839-6162840,6162848-6162849								
28a Total Solids by 160.3					99		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10354001	Sample number(s): 6162834-6162854								
2378-TCDD	0.0600 U	0.0600	1.00	ng/kg	94		67-158		
12378-PeCDD	0.400 U	0.400	5.00	ng/kg	102		70-142		
123478-HxCDD	0.300 U	0.300	5.00	ng/kg	102		70-164		
123678-HxCDD	0.400 U	0.400	5.00	ng/kg	99		76-134		
123789-HxCDD	0.300 U	0.300	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.200 U	0.200	5.00	ng/kg	100		70-140		
OCDD	0.700 U	0.700	10.0	ng/kg	101		78-144		
2378-TCDF	0.0900 U	0.0900	1.00	ng/kg	100		75-158		
12378-PeCDF	0.400 U	0.400	5.00	ng/kg	101		80-134		
23478-PeCDF	0.200 U	0.200	5.00	ng/kg	99		68-160		
123478-HxCDF	0.200 U	0.200	5.00	ng/kg	99		72-134		
123678-HxCDF	0.200 U	0.200	5.00	ng/kg	98		84-130		
123789-HxCDF	0.500 U	0.500	5.00	ng/kg	100		78-130		
234678-HxCDF	0.300 U	0.300	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.382 J	0.300	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.400 U	0.400	5.00	ng/kg	101		78-138		
OCDF	0.500 U	0.500	10.0	ng/kg	99		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10348162401A	Sample number(s): 6162835-6162838,6162841-6162843					BKG: P162820			
28a Total Solids by 160.3						7.7	7.8	1	20
Batch number: 10348162401B	Sample number(s): 6162844-6162847,6162850-6162854					BKG: P162822			
28a Total Solids by 160.3						8.5	8.0	6	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225034
Reported: 12/31/10 at 10:14 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10357162401A	Sample number(s): 6162834,6162839-6162840,6162848-6162849					BKG: P162818			
28a Total Solids by 160.3						10	10.2	2	20
Batch number: 10354001	Sample number(s): 6162834-6162854 UNSPK: 6162844								
2378-TCDD	93	95	67-158	2	25				
12378-PeCDD	99	97	70-142	1	25				
123478-HxCDD	101	103	70-164	2	25				
123678-HxCDD	100	97	76-134	4	25				
123789-HxCDD	101	101	64-162	0	25				
1234678-HpCDD	106	96	70-140	8	25				
OCDD	108	63*	78-144	14	25				
2378-TCDF	96	97	75-158	2	25				
12378-PeCDF	102	100	80-134	2	25				
23478-PeCDF	99	100	68-160	1	25				
123478-HxCDF	99	100	72-134	1	25				
123678-HxCDF	99	100	84-130	1	25				
123789-HxCDF	100	100	78-130	0	25				
234678-HxCDF	101	100	70-156	1	25				
1234678-HpCDF	101	100	82-122	2	25				
1234789-HpCDF	101	102	78-138	1	25				
OCDF	102	99	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 10354001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6162834	73	77	70	74	71	73
6162835	65	73	70	72	68	70
6162836	76	85	76	83	77	78
6162837	67	73	74	79	72	65
6162838	78	84	76	78	75	74
6162839	69	70	63	62	63	63
6162840	79	86	76	82	76	73
6162841	85	90	81	85	82	86
6162842	46	51	48	51	46	46
6162843	74	78	72	73	70	70
6162844	73	82	74	76	72	69
6162845	81	89	82	84	81	80
6162846	81	85	78	80	78	77
6162847	68	74	73	71	70	65
6162848	72	78	75	76	79	73
6162849	52	50	47	50	51	52
6162850	70	79	74	78	74	72
6162851	75	89	76	77	77	67

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225034
Reported: 12/31/10 at 10:14 AM

Surrogate Quality Control

6162852	60	69	65	66	66	64
6162853	71	77	75	70	74	69
6162854	73	83	74	74	74	72
Blank	66	75	71	75	71	61
MS	81	89	82	84	81	80
MSD	81	85	78	80	78	77
OPR	71	72	69	76	71	66

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6162834	74	63	54	77	79	72
6162835	68	54	42	73	72	67
6162836	83	66	53	83	88	78
6162837	85	63	52	76	76	76
6162838	78	66	54	86	88	79
6162839	68	56	44	72	73	64
6162840	87	63	53	86	91	78
6162841	82	70	59	88	92	80
6162842	50	43	37	49	51	48
6162843	71	63	53	79	81	72
6162844	77	61	50	81	84	75
6162845	85	76	67	85	90	83
6162846	79	68	57	82	89	77
6162847	58	49	32	80	74	72
6162848	74	54	38	82	78	80
6162849	44	41	27	55	52	47
6162850	76	67	56	80	78	75
6162851	71	58	44	79	90	76
6162852	61	56	44	71	70	64
6162853	73	58	41	82	79	74
6162854	72	65	54	81	84	73
Blank	74	57	51	72	76	73
MS	85	76	67	85	90	83
MSD	79	68	57	82	89	77
OPR	86	61	53	78	77	78

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6162834	68	70	69	61	71	80
6162835	67	67	59	47	68	76
6162836	76	79	75	62	76	89
6162837	71	73	73	62	66	79
6162838	74	77	73	60	50	87
6162839	61	66	63	55	65	73
6162840	75	78	74	64	77	93
6162841	80	81	77	64	83	95
6162842	47	46	46	40	47	55
6162843	69	70	69	58	72	80
6162844	72	74	69	57	72	82
6162845	80	82	82	72	79	88
6162846	77	79	75	62	78	92
6162847	67	68	54	35	72	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225034
Reported: 12/31/10 at 10:14 AM

Surrogate Quality Control

6162848	77	76	66	42	75	80
6162849	47	53	43	30	54	58
6162850	72	75	72	60	74	81
6162851	75	76	66	51	77	89
6162852	63	65	58	46	65	70
6162853	70	73	66	50	74	80
6162854	70	72	69	59	75	83
Blank	72	69	64	58	65	76
MS	80	82	82	72	79	88
MSD	77	79	75	62	78	92
OPR	75	78	76	67	66	78
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1225034 Sample# 61628 34-54

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLES

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-017-SA5B-SS-0.0-0.5	12/8/10	1530	soil	none	3 stainless steel sleeves			X						X													MS/MSD sample
SL-022-SA5B-SS-0.0-0.5	12/8/10	1545	soil	none	1 x 16 oz. jar						X	X	X		X	X											
SL-022-SA5B-SS-0.0-0.5	12/8/10	1545	soil	none	1 x 16 oz. jar					X								X	X	X	X	X	X	X	X	
SL-022-SA5B-SS-0.0-0.5	12/8/10	1545	soil	none	1 stainless steel sleeve			X						X													
SL-029-SA5B-SS-0.0-0.5	12/8/10	1427	soil	none	1 stainless steel sleeve			X						X													
SL-031-SA5B-SS-0.0-0.5	12/8/10	1515	soil	none	1 x 16 oz. jar						X	X	X		X	X											
SL-031-SA5B-SS-0.0-0.5	12/8/10	1515	soil	none	1 stainless steel sleeve			X						X													
SL-034-SA5B-SS-0.0-0.5	12/8/10	1325	soil	none	1 stainless steel sleeve			X						X													
SL-035-SA5B-SS-0.0-0.5	12/8/10	1400	soil	none	1 stainless steel sleeve			X						X													
SL-036-SA5B-SS-0.0-0.5	12/8/10	1345	soil	none	1 stainless steel sleeve			X						X													
SL-294-SA5B-SS-0.0-0.5	12/8/10	1447	soil	none	1 x 16 oz. jar						X	X	X		X	X											
SL-294-SA5B-SS-0.0-0.5	12/8/10	1447	soil	none	1 stainless steel sleeve			X						X													
SL-307-SA5B-SS-0.0-0.5	12/8/10	1415	soil	none	1 x 16 oz. jar						X	X	X		X	X											
SL-307-SA5B-SS-0.0-0.5	12/8/10	1415	soil	none	1 stainless steel sleeve			X						X													
DUP-01-SA5B-QC-120810	12/8/10	1532	soil	none	1 x 16 oz. jar						X	X	X		X	X											
DUP-01-SA5B-QC-120810	12/8/10	1532	soil	none	1 stainless steel sleeve			X						X													

Relinquished by: (Signature) — Date/Time 12.09.10 12.08.10 1630

Received by: (Signature) — Date/Time

Received for Laboratory by: (Signature) — Date/Time 12/10/10 915

Airbill No.: 00732992
Tracking Number 869514317097

Laboratory: Lancaster Laboratories, Inc.

Cooler 1

869514317097

Acct# 13013 Grp# 1225034 Sample# 61628 34-54

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X	X	X	
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	1 stainless steel sleeve			X						X															
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X	X	X	
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	1 stainless steel sleeve			X						X															

BB 12/9/10

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time
	12.09.10 1630		12/10/10 915
Received by: *(Signature)*	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317097	

Laboratory: Lancaster Laboratories, Inc.

Cooler 1

acct# 13013 Ap# 1225034 sample# 6162834-54

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLES

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA5B-SS-0.0-0.5	12/09/10	0953	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-001-SA5B-SS-0.0-0.5	12/09/10	0953	soil	none	1 stainless steel sleeve			X						X															
SL-006-SA5B-SS-0.0-0.5	12/09/10	1245	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-006-SA5B-SS-0.0-0.5	12/09/10	1245	soil	none	1 stainless steel sleeve			X						X															
SL-010-SA5B-SS-0.0-0.5	12/09/10	1235	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-010-SA5B-SS-0.0-0.5	12/09/10	1235	soil	none	1 stainless steel sleeve			X						X															
SL-012-SA5B-SS-0.0-0.5MS	12/09/10	1247	soil	none	2 x 16 oz. jar						X	X	X		X	X	X	X	X										MS/MSD Sample
SL-012-SA5B-SS-0.0-0.5MS	12/09/10	1247	soil	none	2 stainless steel sleeves			X						X															MS/MSD Sample
SL-013-SA5B-SS-0.0-0.5	12/09/10	1307	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-013-SA5B-SS-0.0-0.5	12/09/10	1307	soil	none	1 stainless steel sleeve			X						X															
SL-018-SA5B-SS-0.0-0.5	12/09/10	0845	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-018-SA5B-SS-0.0-0.5	12/9/10	0845	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X	X	X	
SL-018-SA5B-SS-0.0-0.5	12/09/10	0845	soil	none	1 stainless steel sleeve			X						X															
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X	X	X	
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	1 stainless steel sleeve			X						X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514317101	

Laboratory: Lancaster Laboratories, Inc.

Cooler 2

acct#13013 Ap#1225034 sample#6162834-54

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLES

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-306-SA5B-SS-0.0-0.5	12/9/10	0927	soil	none	1 x 16 oz. jar						X	X	X		X	X		X	X										
SL-306-SA5B-SS-0.0-0.5	12/9/10	0927	soil	none	1 stainless steel sleeve			X						X															
DUP-02-SA5B-QC-120910	12/9/10	1250	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
DUP-02-SA5B-QC-120910	12/9/10	1250	soil	none	1 stainless steel sleeve			X						X															
SL-291-SA5B-SS-0.0-0.5	12/9/10	1310	soil	none	1 x 16 oz. jar						X	X	X		X	X	X	X	X										
SL-291-SA5B-SS-0.0-0.5	12/9/10	1310	soil	none	1 stainless steel sleeve			X						X															

12/9/10

Relinquished by: (Signature)	Date/Time		Received for Laboratory by: (Signature)	Date/Time		Laboratory:
	12.09.10	1630		12/10/10	915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No. 00732992 Tracking Number 869514317101			Cooler 2

acct# 1303 Cp# 1225034 sample# 6162834-54

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SURFACE SAMPLING

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-002-SA5B-SS-0.0-0.5	12/9/10	1410	soil	none	1 x 16 oz. Jar						X	X	X		X	X		X	X										
SL-002-SA5B-SS-0.0-0.5	12/9/10	1410	soil	none	1 stainless steel sleeve			X						X															
SL-007-SA5B-SS-0.0-0.5	12/9/10	1450	soil	none	1 x 16 oz. Jar						X	X	X		X	X		X	X										
SL-007-SA5B-SS-0.0-0.5	12/9/10	1450	soil	none	1 stainless steel sleeve			X						X															

12/9/10

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317969	

Laboratory: Lancaster Laboratories, Inc.

Cooler 5

869514317969

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/10/2010
Group Number: 1225035
SDG: DE033
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA5C-SB-4.0-5.0 Soil	6162855
SL-015-SA5C-SB-9.0-10.0 Soil	6162856
SL-020-SA5C-SB-4.0-5.0 Soil	6162857
SL-020-SA5C-SB-7.5-8.5 Soil	6162858
TB-120810 Water	6162859
SL-016-SA5C-SB-4.0-5.0 Soil	6162860
SL-016-SA5C-SB-9.0-10.0 Soil	6162861
SL-021-SA5C-SB-4.0-5.0 Soil	6162862
SL-021-SA5C-SB-9.0-10.0 Soil	6162863
SL-017-SA5B-SS-0.0-0.5 Soil	6162864
SL-017-SA5B-SS-0.0-0.5MS Soil	6162865
SL-017-SA5B-SS-0.0-0.5MSD Soil	6162866
SL-017-SA5B-SS-0.0-0.5DUP Soil	6162867
EB-01-SA5B-120910 Water	6162868
TB-120910 Water	6162869
EB14-SA5C-120810 Water	6162870
SL-029-SA5B-SS-0.0-0.5 Soil	6162871
SL-034-SA5B-SS-0.0-0.5 Soil	6162872
SL-035-SA5B-SS-0.0-0.5 Soil	6162873
SL-036-SA5B-SS-0.0-0.5 Soil	6162874
SL-022-SA5C-SB-4.0-5.0 Soil	6162875
SL-022-SA5C-SB-9.0-10.0 Soil	6162876
SL-012-SA5C-SB-4.0-5.0 Soil	6162877
SL-012-SA5C-SB-9.0-10.0 Soil	6162878
SL-013-SA5C-SB-4.0-5.0 Soil	6162879
SL-013-SA5C-SB-9.0-10.0 Soil	6162880

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162855
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3301 SDG#: DE033-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	5.9	U	5.9	7.0		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.5		0.8
06192	Bromobenzene	108-86-1	0.11	U	0.11	3.5		0.8
06192	Bromochloromethane	74-97-5	0.29	U	0.29	3.5		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.5		0.8
06192	Bromoform	75-25-2	0.35	U	0.35	3.5		0.8
06192	Bromomethane	74-83-9	0.22	U	0.22	3.5		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.0		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.5		0.8
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.5		0.8
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.5		0.8
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.5		0.8
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.5		0.8
06192	Chloroethane	75-00-3	0.11	U	0.11	3.5		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.26	U	0.26	3.5		0.8
06192	Chloroform	67-66-3	0.44	J	0.11	3.5		0.8
06192	Chloromethane	74-87-3	0.29	U	0.29	3.5		0.8
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.5		0.8
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.5		0.8
06192	Chlorotrifluoroethene	79-38-9	0.44	U	0.44	4.4		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.62	U	0.62	3.5		0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.5		0.8
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.5		0.8
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.5		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.5		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.5		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.5		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.5		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.5		0.8
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.5		0.8
06192	1,1-Dichloroethene	75-35-4	0.34	U	0.34	3.5		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.5		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.5		0.8
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.5		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.5		0.8
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.5		0.8
06192	1,1-Dichloropropene	563-58-6	0.11	U	0.11	3.5		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.5		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.5		0.8
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.5		0.8
06192	Freon 113	76-13-1	0.1	U	0.1	3.5		0.8
06192	Freon 133a	75-88-7	0.44	U	0.44	4.4		0.8
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.5		0.8
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.0		0.8
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.5		0.8
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.5		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.18	U	0.18	3.5		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.34	U	0.34	7.0		0.8
06192	Methylene Chloride	75-09-2	16		0.21	3.5		0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.5		0.8

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162855
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3301 SDG#: DE033-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.5		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.5		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.20	U	0.20	3.5		0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.5		0.8
06192	Toluene	108-88-3	0.15	J	0.07	3.5		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.5		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.5		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.5		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.5		0.8
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.5		0.8
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.5		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.29	U	0.29	3.5		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.35	U	0.35	3.5		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.5		0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.5		0.8
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.5		0.8
06192	o-Xylene	95-47-6	0.15	U	0.15	3.5		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		24.37
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.8	J	18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162855
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3301 SDG#: DE033-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.81	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	35		6.6	20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162855
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3301 SDG#: DE033-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.88	J	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.78	J	0.74	1.8		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162855
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
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E3301 SDG#: DE033-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	85	U	85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.4		5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.4		5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.4		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.4		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.4		5
10225	PCB-1260	11096-82-5	1.8	U	1.8	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	12		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	26		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

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SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162855
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3301 SDG#: DE033-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.34	21.2		1
07914	Boron	7440-42-8	2.53	J	0.946	5.31		1
01650	Calcium	7440-70-2	5,110		6.51	21.2		1
01654	Iron	7439-89-6	19,200		5.00	21.2		1
01656	Lithium	7439-93-2	18.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,340		2.70	10.6		1
06958	Manganese	7439-96-5	247		0.0829	0.531		1
10145	Phosphorus	7723-14-0	467		0.595	10.6		1
01662	Potassium	7440-09-7	2,990		19.1	53.1		1
01667	Sodium	7440-23-5	177		39.6	106		1
07968	Strontium	7440-24-6	25.2		0.0659	0.531		1
06969	Tin	7440-31-5	2.12	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,280		0.823	2.17		2
10146	Zirconium	7440-67-7	1.56	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0688	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.65		0.0656	0.438		2
06126	Barium	7440-39-3	115		0.118	0.438		2
06127	Beryllium	7440-41-7	0.843		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.153		0.0394	0.109		2
06131	Chromium	7440-47-3	34.0		0.131	0.438		2
06132	Cobalt	7440-48-4	9.37		0.0219	0.109		2
06133	Copper	7440-50-8	11.4		0.0722	0.438		2
06135	Lead	7439-92-1	9.41		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.450		0.0547	0.109		2
06139	Nickel	7440-02-0	14.8		0.109	0.438		2
06141	Selenium	7782-49-2	0.256	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0235	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.345		0.0328	0.109		2
06148	Vanadium	7440-62-2	68.8		0.0241	0.109		2
06149	Zinc	7440-66-6	76.6		0.613	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.2		0.88	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162855
LLI Group # 1225035
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E3301 SDG#: DE033-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	510		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.12		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	9.5		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-015-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 12:21	Nicholas R Rossi	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 15:38	Jason M Long	24.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:47	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010 12:51	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010 12:51	Stephanie A Sanchez	n.a.

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SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

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E3301 SDG#: DE033-01

Laboratory Sample Analysis Record

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07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010 12:47	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 21:42	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 10:15	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 16:54	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 11:33	Elizabeth J Marin	22.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:47	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 02:34	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 17:14	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 07:42	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 06:45	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 18:43	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/14/2010 23:43	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 01:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 16:55	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162855
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E3301 SDG#: DE033-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 16:50	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 04:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 14:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 14:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/21/2010 22:58	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 18:31	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3302 SDG#: DE033-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.03
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.03
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.03
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		1.03
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.03
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.03
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		1.03
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.03
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		1.03
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.03
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.03
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.03
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.03
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.03
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		1.03
06192	Methylene Chloride	75-09-2	2.2	J	0.27	4.5		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.03

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Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3302 SDG#: DE033-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.03
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		1.03
06192	Toluene	108-88-3	0.17	J	0.09	4.5		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.03
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.03
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.54
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	31.3	J	18.1	36.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3302 SDG#: DE033-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.80	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	1.4	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1

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Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3302 SDG#: DE033-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	1.8		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	1.9		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U	54	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	54	U	54	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	54	U	54	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	54	U	54	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	54	U	54	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	83	U	83	160	10000000	1

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Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3302 SDG#: DE033-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	54	U	54	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U	54	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	1.8	J	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.68	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.65	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	7.9		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	19		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3302 SDG#: DE033-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.37	21.3		1
07914	Boron	7440-42-8	2.75	J	0.949	5.33		1
01650	Calcium	7440-70-2	3,440		6.54	21.3		1
01654	Iron	7439-89-6	16,800		5.02	21.3		1
01656	Lithium	7439-93-2	17.6		0.23	2.1		1
01657	Magnesium	7439-95-4	3,330		2.71	10.7		1
06958	Manganese	7439-96-5	237		0.0832	0.533		1
10145	Phosphorus	7723-14-0	284		0.597	10.7		1
01662	Potassium	7440-09-7	2,480		19.2	53.3		1
01667	Sodium	7440-23-5	134		39.8	107		1
07968	Strontium	7440-24-6	15.7		0.0661	0.533		1
06969	Tin	7440-31-5	2.01	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,150		0.795	2.09		2
10146	Zirconium	7440-67-7	0.933	J	0.896	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0640	U	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.33		0.0640	0.427		2
06126	Barium	7440-39-3	100		0.115	0.427		2
06127	Beryllium	7440-41-7	0.546		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.137		0.0384	0.107		2
06131	Chromium	7440-47-3	18.1		0.128	0.427		2
06132	Cobalt	7440-48-4	6.10		0.0213	0.107		2
06133	Copper	7440-50-8	8.33		0.0704	0.427		2
06135	Lead	7439-92-1	7.09		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.515		0.0533	0.107		2
06139	Nickel	7440-02-0	10.5		0.107	0.427		2
06141	Selenium	7782-49-2	0.115	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0229	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.366		0.0320	0.107		2
06148	Vanadium	7440-62-2	36.4		0.0235	0.107		2
06149	Zinc	7440-66-6	78.1		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.22	1.1		1

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Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3302 SDG#: DE033-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	461		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.51		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-015-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	12:44	Nicholas R Rossi	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	15:57	Jason M Long	23.54
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010	12:50	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010	12:51	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010	12:51	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010	12:50	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010	21:59	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010	10:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/22/2010	06:31	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010	01:00	Sherry L Morrow	1

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Sample Description: **SL-015-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3302 SDG#: DE033-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 12:09	Elizabeth J Marin	24.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:50	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 03:16	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 17:24	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 08:00	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 07:10	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 18:58	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/14/2010 23:59	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 02:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 16:59	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 16:54	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2

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Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162856
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3302 SDG#: DE033-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 15:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 15:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/21/2010 23:22	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 18:44	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.0	U	6.0	7.1		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.8
06192	Bromochloromethane	74-97-5	0.29	U	0.29	3.6		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.8
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.8
06192	Bromomethane	74-83-9	0.22	U	0.22	3.6		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.1		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.8
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.8
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.6		0.8
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.6		0.8
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.8
06192	Chloromethane	74-87-3	0.29	U	0.29	3.6		0.8
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.6		0.8
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.6		0.8
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63	U	0.63	3.6		0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.8
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.8
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.6		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.6		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.8
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.6		0.8
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.8
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.8
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.6		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.8
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.8
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.8
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.8
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.6		0.8
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.1		0.8
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.8
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.1		0.8
06192	Methylene Chloride	75-09-2	2.6	J	0.21	3.6		0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.8

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Sample Description: SL-020-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.8
06192	Toluene	108-88-3	0.15	J	0.07	3.6		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.6		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.8
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.6		0.8
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.29	U	0.29	3.6		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.8
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.8
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.4	U	4.4	13		19.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	37.2		18.5	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1

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Sample Description: SL-020-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.80	J	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.87	J	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	24		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.7	20		1
10138	Chrysene	218-01-9	1.9		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	70		6.7	20		1

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Sample Description: SL-020-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	4.3		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	10	J	6.7	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.74	1.9		1
10138	Pyrene	129-00-0	2.5		0.74	1.9		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.87
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	70	U	70	170	10000000	1

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Sample Description: SL-020-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	85	U	85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	2.2		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

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Sample Description: **SL-020-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.54	22.0		1
07914	Boron	7440-42-8	2.16	J	0.980	5.51		1
01650	Calcium	7440-70-2	6,430		6.75	22.0		1
01654	Iron	7439-89-6	24,800		5.19	22.0		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,360		2.80	11.0		1
06958	Manganese	7439-96-5	372		0.0859	0.551		1
10145	Phosphorus	7723-14-0	305		0.617	11.0		1
01662	Potassium	7440-09-7	2,820		19.8	55.1		1
01667	Sodium	7440-23-5	100	J	41.1	110		1
07968	Strontium	7440-24-6	22.1		0.0683	0.551		1
06969	Tin	7440-31-5	2.12	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,140		0.837	2.20		2
10146	Zirconium	7440-67-7	1.94	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.89		0.0642	0.428		2
06126	Barium	7440-39-3	105		0.116	0.428		2
06127	Beryllium	7440-41-7	0.575		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.138		0.0385	0.107		2
06131	Chromium	7440-47-3	21.4		0.128	0.428		2
06132	Cobalt	7440-48-4	6.66		0.0214	0.107		2
06133	Copper	7440-50-8	10.1		0.0706	0.428		2
06135	Lead	7439-92-1	7.74		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.471		0.0535	0.107		2
06139	Nickel	7440-02-0	12.3		0.107	0.428		2
06141	Selenium	7782-49-2	0.0983	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0350	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.325		0.0321	0.107		2
06148	Vanadium	7440-62-2	42.2		0.0235	0.107		2
06149	Zinc	7440-66-6	59.6		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.89	1.7		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-020-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	458		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	10.1		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-020-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 13:06	Nicholas R Rossi	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 16:17	Jason M Long	19.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:22	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010 12:23	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010 12:23	Stephanie A Sanchez	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-020-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010 12:22	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 22:16	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 11:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/20/2010 21:21	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 12:46	Elizabeth J Marin	20.87
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:22	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 03:59	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 17:33	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 08:19	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 04:15	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 19:27	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 02:39	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/17/2010 18:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:10	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162857
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3303 SDG#: DE033-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:04	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 15:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 15:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/21/2010 23:46	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 18:57	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	5.7	U	5.7	6.8		0.77
06192	Benzene	71-43-2	0.08	U	0.08	3.4		0.77
06192	Bromobenzene	108-86-1	0.11	U	0.11	3.4		0.77
06192	Bromochloromethane	74-97-5	0.28	U	0.28	3.4		0.77
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.4		0.77
06192	Bromoform	75-25-2	0.34	U	0.34	3.4		0.77
06192	Bromomethane	74-83-9	0.21	U	0.21	3.4		0.77
06192	2-Butanone	78-93-3	1.0	U	1.0	6.8		0.77
06192	n-Butylbenzene	104-51-8	0.10	U	0.10	3.4		0.77
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.4		0.77
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.4		0.77
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.4		0.77
06192	Chlorobenzene	108-90-7	0.09	U	0.09	3.4		0.77
06192	Chloroethane	75-00-3	0.11	U	0.11	3.4		0.77
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.25	U	0.25	3.4		0.77
06192	Chloroform	67-66-3	0.10	U	0.10	3.4		0.77
06192	Chloromethane	74-87-3	0.28	U	0.28	3.4		0.77
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.4		0.77
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.4		0.77
06192	Chlorotrifluoroethene	79-38-9	0.42	U	0.42	4.2		0.77
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.59	U	0.59	3.4		0.77
06192	Dibromochloromethane	124-48-1	0.17	U	0.17	3.4		0.77
06192	1,2-Dibromoethane	106-93-4	0.14	U	0.14	3.4		0.77
06192	Dibromomethane	74-95-3	0.20	U	0.20	3.4		0.77
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.4		0.77
06192	1,3-Dichlorobenzene	541-73-1	0.10	U	0.10	3.4		0.77
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.4		0.77
06192	Dichlorodifluoromethane	75-71-8	0.10	U	0.10	3.4		0.77
06192	1,1-Dichloroethane	75-34-3	0.08	U	0.08	3.4		0.77
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.4		0.77
06192	1,1-Dichloroethene	75-35-4	0.33	U	0.33	3.4		0.77
06192	cis-1,2-Dichloroethene	156-59-2	0.16	U	0.16	3.4		0.77
06192	trans-1,2-Dichloroethene	156-60-5	0.10	U	0.10	3.4		0.77
06192	1,2-Dichloropropane	78-87-5	0.14	U	0.14	3.4		0.77
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.4		0.77
06192	2,2-Dichloropropane	594-20-7	0.14	U	0.14	3.4		0.77
06192	1,1-Dichloropropene	563-58-6	0.11	U	0.11	3.4		0.77
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.4		0.77
06192	trans-1,3-Dichloropropene	10061-02-6	0.14	U	0.14	3.4		0.77
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.4		0.77
06192	Freon 113	76-13-1	0.09	U	0.09	3.4		0.77
06192	Freon 133a	75-88-7	0.42	U	0.42	4.2		0.77
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.4		0.77
06192	2-Hexanone	591-78-6	1.4	U	1.4	6.8		0.77
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.4		0.77
06192	p-Isopropyltoluene	99-87-6	0.09	U	0.09	3.4		0.77
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.18	U	0.18	3.4		0.77
06192	4-Methyl-2-pentanone	108-10-1	0.33	U	0.33	6.8		0.77
06192	Methylene Chloride	75-09-2	0.72	J	0.20	3.4		0.77
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.4		0.77

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.08	U	0.08	3.4		0.77
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.09	U	0.09	3.4		0.77
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.19	U	0.19	3.4		0.77
06192	Tetrachloroethene	127-18-4	0.17	U	0.17	3.4		0.77
06192	Toluene	108-88-3	0.13	J	0.07	3.4		0.77
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.4		0.77
06192	1,2,4-Trichlorobenzene	120-82-1	0.15	U	0.15	3.4		0.77
06192	1,1,1-Trichloroethane	71-55-6	0.17	U	0.17	3.4		0.77
06192	1,1,2-Trichloroethane	79-00-5	0.23	U	0.23	3.4		0.77
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.4		0.77
06192	Trichlorofluoromethane	75-69-4	0.25	U	0.25	3.4		0.77
06192	1,2,3-Trichloropropane	96-18-4	0.28	U	0.28	3.4		0.77
06192	1,2,4-Trimethylbenzene	95-63-6	0.34	U	0.34	3.4		0.77
06192	1,3,5-Trimethylbenzene	108-67-8	0.08	U	0.08	3.4		0.77
06192	Vinyl Chloride	75-01-4	0.17	U	0.17	3.4		0.77
06192	m+p-Xylene	179601-23-1	0.14	U	0.14	3.4		0.77
06192	o-Xylene	95-47-6	0.14	U	0.14	3.4		0.77
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		19.75
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.3	U	18.3	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	35		6.6	20		1

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Sample Description: SL-020-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1

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Sample Description: SL-020-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.4		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

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Sample Description: **SL-020-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.40	21.5		1
07914	Boron	7440-42-8	2.73	J	0.956	5.37		1
01650	Calcium	7440-70-2	2,010		6.58	21.5		1
01654	Iron	7439-89-6	16,800		5.06	21.5		1
01656	Lithium	7439-93-2	15.6		0.24	2.1		1
01657	Magnesium	7439-95-4	3,030		2.73	10.7		1
06958	Manganese	7439-96-5	515		0.0838	0.537		1
10145	Phosphorus	7723-14-0	215		0.601	10.7		1
01662	Potassium	7440-09-7	1,680		19.3	53.7		1
01667	Sodium	7440-23-5	138		40.1	107		1
07968	Strontium	7440-24-6	16.7		0.0666	0.537		1
06969	Tin	7440-31-5	2.05	J	1.07	10.7		1
06970	Titanium	7440-32-6	878		0.404	1.06		1
10146	Zirconium	7440-67-7	1.52	J	0.902	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0882	J	0.0626	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.87		0.0626	0.417		2
06126	Barium	7440-39-3	184		0.113	0.417		2
06127	Beryllium	7440-41-7	0.644		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.247		0.0376	0.104		2
06131	Chromium	7440-47-3	18.3		0.125	0.417		2
06132	Cobalt	7440-48-4	10.5		0.0209	0.104		2
06133	Copper	7440-50-8	6.92		0.0688	0.417		2
06135	Lead	7439-92-1	4.60		0.0108	0.209		2
06138	Molybdenum	7439-98-7	0.437		0.0522	0.104		2
06139	Nickel	7440-02-0	12.4		0.104	0.417		2
06141	Selenium	7782-49-2	0.0615	J	0.0417	0.417		2
06142	Silver	7440-22-4	0.0607	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.251		0.0313	0.104		2
06148	Vanadium	7440-62-2	34.6		0.0229	0.104		2
06149	Zinc	7440-66-6	51.0		0.584	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.88	1.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA5C-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	488		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-020-SA5C-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 13:29	Nicholas R Rossi	0.77
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 16:36	Jason M Long	19.75
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:25	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010 12:26	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010 12:26	Stephanie A Sanchez	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010 12:25	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 22:33	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 11:33	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/22/2010 07:05	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 01:36	Marie D John	19.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:25	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 04:41	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 17:43	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/17/2010 15:28	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 08:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 04:40	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 19:41	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/14/2010 22:55	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/17/2010 19:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:13	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162858
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3304 SDG#: DE033-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:08	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/21/2010 18:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 15:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 15:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/22/2010 00:10	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 19:09	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:20	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401A	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-120810 Water
SSFL Area IV Collocated Soil Sampling
TB-120810

LLI Sample # WW 6162859
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3305 SDG#: DE033-05TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-120810 Water**
SSFL Area IV Collocated Soil Sampling
TB-120810

LLI Sample # WW 6162859
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3305 SDG#: DE033-05TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103462AA	12/13/2010	16:49	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103491AA	12/15/2010	10:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y103462AA	12/13/2010	16:49	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E103491AA	12/15/2010	10:07	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10351B53B	12/19/2010	19:08	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10351B53B	12/19/2010	19:08	Carrie E Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.0	U	6.0	7.2		0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.82
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.82
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.82
06192	Bromomethane	74-83-9	0.22	U	0.22	3.6		0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.2		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.82
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.82
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.6		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.82
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.82
06192	Chloroform	67-66-3	0.15	J	0.11	3.6		0.82
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.82
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63	U	0.63	3.6		0.82
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.82
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.82
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.6		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.6		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.82
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.6		0.82
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.82
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.82
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.6		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.82
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.82
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.82
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.82
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.2		0.82
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.82
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.2		0.82
06192	Methylene Chloride	75-09-2	3.8		0.21	3.6		0.82
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.82

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.82
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.82
06192	Toluene	108-88-3	0.13	J	0.07	3.6		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.82
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.6		0.82
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.82
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.82
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.82
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	22.3	J	18.3	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.75
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1

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Sample Description: SL-016-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.53	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	10		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	24		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.46	21.7		1
07914	Boron	7440-42-8	2.34	J	0.966	5.43		1
01650	Calcium	7440-70-2	5,730		6.65	21.7		1
01654	Iron	7439-89-6	20,200		5.11	21.7		1
01656	Lithium	7439-93-2	19.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,110		2.76	10.9		1
06958	Manganese	7439-96-5	371		0.0847	0.543		1
10145	Phosphorus	7723-14-0	361		0.608	10.9		1
01662	Potassium	7440-09-7	2,810		19.5	54.3		1
01667	Sodium	7440-23-5	213		40.5	109		1
07968	Strontium	7440-24-6	24.8		0.0673	0.543		1
06969	Tin	7440-31-5	2.23	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,210		0.817	2.15		2
10146	Zirconium	7440-67-7	1.58	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0633	U	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.44		0.0633	0.422		2
06126	Barium	7440-39-3	97.0		0.114	0.422		2
06127	Beryllium	7440-41-7	0.510		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.0751	J	0.0380	0.105		2
06131	Chromium	7440-47-3	16.8		0.127	0.422		2
06132	Cobalt	7440-48-4	5.61		0.0211	0.105		2
06133	Copper	7440-50-8	8.21		0.0696	0.422		2
06135	Lead	7439-92-1	5.60		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.456		0.0527	0.105		2
06139	Nickel	7440-02-0	9.36		0.105	0.422		2
06141	Selenium	7782-49-2	0.124	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0261	J	0.0127	0.105		2
06145	Thallium	7440-28-0	0.269		0.0316	0.105		2
06148	Vanadium	7440-62-2	36.5		0.0232	0.105		2
06149	Zinc	7440-66-6	59.2		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.88	1.1		1

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Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	476		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-016-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 13:51	Nicholas R Rossi	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 16:56	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:28	Stephanie A Sanchez	n.a.

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Sample Description: SL-016-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010 12:31	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010 12:31	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010 12:28	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 22:50	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 11:59	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/22/2010 07:38	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 13:22	Elizabeth J Marin	19.75
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:28	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 05:23	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 18:02	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/17/2010 15:34	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 08:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 07:34	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 19:56	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 02:07	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/17/2010 23:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:17	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1

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Sample Description: SL-016-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:12	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:16	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 16:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 16:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/22/2010 00:58	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 19:22	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:21	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101A	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162860
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3306 SDG#: DE033-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-016-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3307 SDG#: DE033-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	22		6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	3.0	J	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.16	J	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	5.5		0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-016-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3307 SDG#: DE033-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.89
06192	Toluene	108-88-3	0.14	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		19.38
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	39.3		18.3	36.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3307 SDG#: DE033-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.85	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.92	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.8	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.0		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32		6.6	20		1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

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E3307 SDG#: DE033-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	2.4		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	2.3		0.73	1.8		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.65
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1

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SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
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E3307 SDG#: DE033-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	84	U	84	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	2,900		660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	2.3		0.36	1.9		1
10225	PCB-1254	11097-69-1	1.6	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.62	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	5.8	J	2.2	6.6		5
10199	EFH (C21-C30)	n.a.	24		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	61		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

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Sample Description: **SL-016-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
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E3307 SDG#: DE033-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.27	21.0		1
07914	Boron	7440-42-8	2.91	J	0.932	5.24		1
01650	Calcium	7440-70-2	4,230		6.42	21.0		1
01654	Iron	7439-89-6	18,700		4.93	21.0		1
01656	Lithium	7439-93-2	18.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,810		2.66	10.5		1
06958	Manganese	7439-96-5	611		0.0817	0.524		1
10145	Phosphorus	7723-14-0	299		0.587	10.5		1
01662	Potassium	7440-09-7	2,560		18.9	52.4		1
01667	Sodium	7440-23-5	166		39.1	105		1
07968	Strontium	7440-24-6	22.3		0.0650	0.524		1
06969	Tin	7440-31-5	2.34	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,150		0.828	2.18		2
10146	Zirconium	7440-67-7	1.78	J	0.880	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0952	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.33		0.0647	0.431		2
06126	Barium	7440-39-3	110		0.116	0.431		2
06127	Beryllium	7440-41-7	0.577		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.198		0.0388	0.108		2
06131	Chromium	7440-47-3	24.3		0.129	0.431		2
06132	Cobalt	7440-48-4	6.83		0.0216	0.108		2
06133	Copper	7440-50-8	10.9		0.0712	0.431		2
06135	Lead	7439-92-1	7.77		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.863		0.0539	0.108		2
06139	Nickel	7440-02-0	12.8		0.108	0.431		2
06141	Selenium	7782-49-2	0.170	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0334	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.364		0.0324	0.108		2
06148	Vanadium	7440-62-2	44.2		0.0237	0.108		2
06149	Zinc	7440-66-6	84.4		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.88	1.7		1

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Sample Description: SL-016-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3307 SDG#: DE033-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	12.2	J	9.9	33.0		1
	SW-846 7199			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498			**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	467		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
	SW-846 9045C modified			**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-016-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	14:14	Nicholas R Rossi	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	17:16	Jason M Long	19.38
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010	12:32	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010	12:31	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010	12:31	Stephanie A Sanchez	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: SL-016-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3307 SDG#: DE033-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010 12:32	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 23:07	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 12:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 09:03	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 02:12	Marie D John	19.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:32	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 06:06	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 18:11	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/17/2010 15:41	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 09:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 11:44	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 20:11	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/14/2010 23:11	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 02:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1

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Sample Description: SL-016-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162861
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3307 SDG#: DE033-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:15	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 16:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 16:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10354354201B	12/22/2010 01:22	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 19:35	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10354354201B	12/20/2010 19:00	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3308 SDG#: DE033-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.9		5.9	7.1		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.5		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.5		0.83
06192	Bromochloromethane	74-97-5	0.29	U	0.29	3.5		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.5		0.83
06192	Bromoform	75-25-2	0.35	U	0.35	3.5		0.83
06192	Bromomethane	74-83-9	0.22	U	0.22	3.5		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.1		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.5		0.83
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.5		0.83
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.5		0.83
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.5		0.83
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.5		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.5		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.5		0.83
06192	Chloroform	67-66-3	0.11	J	0.11	3.5		0.83
06192	Chloromethane	74-87-3	0.29	U	0.29	3.5		0.83
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.5		0.83
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.5		0.83
06192	Chlorotrifluoroethene	79-38-9	0.44	U	0.44	4.4		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.62	U	0.62	3.5		0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.5		0.83
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.5		0.83
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.5		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.5		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.5		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.5		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.5		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.5		0.83
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.5		0.83
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.5		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.5		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.5		0.83
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.5		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.5		0.83
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.5		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.5		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.5		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.5		0.83
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.5		0.83
06192	Freon 113	76-13-1	0.1	U	0.1	3.5		0.83
06192	Freon 133a	75-88-7	0.44	U	0.44	4.4		0.83
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.5		0.83
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.1		0.83
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.5		0.83
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.5		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.5		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.1		0.83
06192	Methylene Chloride	75-09-2	4.5		0.21	3.5		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.5		0.83

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Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3308 SDG#: DE033-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.5		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.5		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.20	U	0.20	3.5		0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.5		0.83
06192	Toluene	108-88-3	0.1	J	0.07	3.5		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.5		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.5		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.5		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.5		0.83
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.5		0.83
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.5		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.29	U	0.29	3.5		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.35	U	0.35	3.5		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.5		0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.5		0.83
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.5		0.83
06192	o-Xylene	95-47-6	0.15	U	0.15	3.5		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.4	U	4.4	13		20.49
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	22.9	J	17.8	35.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1

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Sample Description: SL-021-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3308 SDG#: DE033-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	11	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	9.2	J	6.4	19		1
10138	Chrysene	218-01-9	2.3		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	72		6.4	19		1

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SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3308 SDG#: DE033-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	3.6		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.85	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.2	J	0.71	1.8		1
10138	Pyrene	129-00-0	2.9		0.71	1.8		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80	U	80	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53	U	53	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	320	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	320	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	53	U	53	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	53	U	53	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	53	U	53	160	10000000	1
10132	HMX	2691-41-0	130	U	130	400	10000000	1
10132	Nitrobenzene	98-95-3	53	U	53	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,200	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,200	10000000	1
10132	RDX	121-82-4	67	U	67	160	10000000	1

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Sample Description: SL-021-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3308 SDG#: DE033-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	82	U	82	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	53	U	53	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	53	U	53	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.87	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.79	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.48	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	11		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	28		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

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Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3308 SDG#: DE033-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,670		5.22	20.7		1
07914	Boron	7440-42-8	2.16	J	0.923	5.19		1
01650	Calcium	7440-70-2	5,430		6.36	20.7		1
01654	Iron	7439-89-6	15,400		4.89	20.7		1
01656	Lithium	7439-93-2	15.2		0.23	2.1		1
01657	Magnesium	7439-95-4	3,470		2.63	10.4		1
06958	Manganese	7439-96-5	204		0.0809	0.519		1
10145	Phosphorus	7723-14-0	365		0.581	10.4		1
01662	Potassium	7440-09-7	2,480		18.7	51.9		1
01667	Sodium	7440-23-5	134		38.7	104		1
07968	Strontium	7440-24-6	18.5		0.0643	0.519		1
06969	Tin	7440-31-5	1.68	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,170		0.788	2.07		2
10146	Zirconium	7440-67-7	1.05	J	0.871	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0622	U	0.0622	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.77		0.0622	0.415		2
06126	Barium	7440-39-3	120		0.112	0.415		2
06127	Beryllium	7440-41-7	0.484		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.142		0.0373	0.104		2
06131	Chromium	7440-47-3	19.9		0.124	0.415		2
06132	Cobalt	7440-48-4	6.95		0.0207	0.104		2
06133	Copper	7440-50-8	12.8		0.0685	0.415		2
06135	Lead	7439-92-1	6.77		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.555		0.0519	0.104		2
06139	Nickel	7440-02-0	11.0		0.104	0.415		2
06141	Selenium	7782-49-2	0.116	J	0.0415	0.415		2
06142	Silver	7440-22-4	0.0297	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.340		0.0311	0.104		2
06148	Vanadium	7440-62-2	44.4		0.0228	0.104		2
06149	Zinc	7440-66-6	80.9		0.581	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	J	0.0029	0.0998		1

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Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

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CDM Federal Programs Corp.
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E3308 SDG#: DE033-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	449		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	19:46	Nicholas R Rossi	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	17:36	Jason M Long	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010	12:36	Stephanie A Sanchez	n.a.

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SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
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E3308 SDG#: DE033-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010 12:38	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010 12:38	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010 12:36	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 23:24	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 12:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 09:37	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 02:49	Marie D John	20.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:36	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 08:13	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 18:21	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/17/2010 15:47	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 09:33	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 07:59	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 20:25	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 02:23	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/17/2010 21:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1

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Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3308 SDG#: DE033-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:19	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 16:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 16:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 16:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 19:48	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1

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Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162862
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3308 SDG#: DE033-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3309 SDG#: DE033-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.4	7.6		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.87
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.87
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.87
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.87
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.87
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.87
06192	Methylene Chloride	75-09-2	2.9	J	0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

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Sample Description: SL-021-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3309 SDG#: DE033-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.14	J	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.2
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	114		18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-021-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3309 SDG#: DE033-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.63	J	0.36	1.8		1
10138	Anthracene	120-12-7	1.7	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.7		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.6		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.0		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	19	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	7.9	J	6.6	20		1
10138	Chrysene	218-01-9	3.4		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		6.6	20		1

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Sample Description: SL-021-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3309 SDG#: DE033-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	4.5		0.73	1.8		1
10138	Fluorene	86-73-7	1.0	J	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	8.5	J	6.6	20		1
10138	Phenanthrene	85-01-8	2.1		0.73	1.8		1
10138	Pyrene	129-00-0	3.6		0.73	1.8		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.72
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1

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Sample Description: SL-021-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3309 SDG#: DE033-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	1.6	J	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.78	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.64	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.63	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	7.3		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	13		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

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Sample Description: SL-021-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3309 SDG#: DE033-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.34	21.2		1
07914	Boron	7440-42-8	2.17	J	0.944	5.31		1
01650	Calcium	7440-70-2	7,450		6.50	21.2		1
01654	Iron	7439-89-6	20,300		5.00	21.2		1
01656	Lithium	7439-93-2	20.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,970		2.70	10.6		1
06958	Manganese	7439-96-5	260		0.0828	0.531		1
10145	Phosphorus	7723-14-0	332		0.594	10.6		1
01662	Potassium	7440-09-7	2,770		19.1	53.1		1
01667	Sodium	7440-23-5	156		39.6	106		1
07968	Strontium	7440-24-6	19.4		0.0658	0.531		1
06969	Tin	7440-31-5	2.44	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,140		0.831	2.19		2
10146	Zirconium	7440-67-7	1.71	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0986	J	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.61		0.0643	0.429		2
06126	Barium	7440-39-3	109		0.116	0.429		2
06127	Beryllium	7440-41-7	0.631		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.194		0.0386	0.107		2
06131	Chromium	7440-47-3	22.8		0.129	0.429		2
06132	Cobalt	7440-48-4	6.48		0.0214	0.107		2
06133	Copper	7440-50-8	10.0		0.0707	0.429		2
06135	Lead	7439-92-1	7.51		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.570		0.0536	0.107		2
06139	Nickel	7440-02-0	12.7		0.107	0.429		2
06141	Selenium	7782-49-2	0.115	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0462	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.276		0.0321	0.107		2
06148	Vanadium	7440-62-2	41.1		0.0236	0.107		2
06149	Zinc	7440-66-6	70.7		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.87	1.6		1

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Sample Description: SL-021-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3309 SDG#: DE033-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	453		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.76		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	8.5		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 14:58	Nicholas R Rossi	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 17:56	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:39	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723283	12/10/2010 12:38	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723283	12/10/2010 12:38	Stephanie A Sanchez	n.a.

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Sample Description: **SL-021-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E3309 SDG#: DE033-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010 12:39	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/29/2010 11:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 13:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 10:45	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 12:09	Marie D John	19.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 12:39	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 08:55	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 18:30	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/17/2010 15:53	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 09:52	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 05:55	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 20:40	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/14/2010 23:27	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 03:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162863
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3309 SDG#: DE033-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:23	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 17:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 17:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 16:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10356243201A	12/28/2010 20:07	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.9
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.9
06192	Methylene Chloride	75-09-2	0.59	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	J	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.8	J	18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.2		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.0		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	4.1		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.73	1.8		1
10138	Pyrene	129-00-0	3.2		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.52
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1

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Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	1.9		1
10401	MCPA	94-74-6	230	U	230	270		1
10401	MCPP (Mecoprop)	93-65-2	290		82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.14	U	0.14	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.062	U	0.062	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1

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Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.79	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.89	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.5		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	14		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	37		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

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Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		5.34	21.2		1
07914	Boron	7440-42-8	4.05	J	0.944	5.31		1
01650	Calcium	7440-70-2	4,940		6.50	21.2		1
01654	Iron	7439-89-6	18,500		5.00	21.2		1
01656	Lithium	7439-93-2	17.8		0.23	2.1		1
01657	Magnesium	7439-95-4	4,100		2.70	10.6		1
06958	Manganese	7439-96-5	234		0.0828	0.531		1
10145	Phosphorus	7723-14-0	445		0.594	10.6		1
01662	Potassium	7440-09-7	2,870		19.1	53.1		1
01667	Sodium	7440-23-5	105	J	39.6	106		1
07968	Strontium	7440-24-6	27.7		0.0658	0.531		1
06969	Tin	7440-31-5	2.17	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,040		0.806	2.12		2
10146	Zirconium	7440-67-7	2.61	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.99		0.0649	0.433		2
06126	Barium	7440-39-3	109		0.117	0.433		2
06127	Beryllium	7440-41-7	0.662		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.117		0.0390	0.108		2
06131	Chromium	7440-47-3	24.2		0.130	0.433		2
06132	Cobalt	7440-48-4	6.51		0.0216	0.108		2
06133	Copper	7440-50-8	11.0		0.0714	0.433		2
06135	Lead	7439-92-1	7.20		0.0113	0.216		2
06138	Molybdenum	7439-98-7	1.24		0.0541	0.108		2
06139	Nickel	7440-02-0	13.2		0.108	0.433		2
06141	Selenium	7782-49-2	0.190	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0385	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.284		0.0325	0.108		2
06148	Vanadium	7440-62-2	41.6		0.0238	0.108		2
06149	Zinc	7440-66-6	86.8		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.87	1.6		1

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Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	453		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 15:20	Nicholas R Rossi	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 18:15	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 19:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823293	12/10/2010 20:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823293	12/10/2010 20:01	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723285	12/10/2010 19:57	Christopher D Meeks	n.a.

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Sample Description: SL-017-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
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Project Name: SSFL Area IV Collocated Soil Sampling

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E3310 SDG#: DE033-10BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 20:50	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 08:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/20/2010 17:42	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 12:45	Marie D John	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723285	12/10/2010 19:57	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 09:38	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 18:40	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490014A	12/17/2010 22:29	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/17/2010 15:59	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 19:39	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/23/2010 10:32	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490014A	12/16/2010 02:10	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 18:03	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 20:55	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 03:43	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 04:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 16:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1

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Sample Description: **SL-017-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 16:29	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 04:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 13:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 13:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 15:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 20:27	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1

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Sample Description: **SL-017-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162864
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	855		18.2	36.4		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,200		180	550		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	4,000		1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	2,100		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	710		180	550		1
04688	Benzyl alcohol	100-51-6	1,600		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		36	180		1
04688	4-Chloroaniline	106-47-8	810		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,100		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,800		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,700		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700		36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,900		36	180		1
04688	Dimethylphthalate	131-11-3	1,700		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400		180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,900	J	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,600		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		18	360		1
04688	Fluoranthene	206-44-0	1,600		18	180		1
04688	Fluorene	86-73-7	1,700		18	180		1
04688	Hexachlorobenzene	118-74-1	1,800		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		73	180		1

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Sample Description: SL-017-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,800	180	550		1
04688	Hexachloroethane	67-72-1	1,600	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000	18	180		1
04688	Isophorone	78-59-1	1,500	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,600	36	180		1
04688	4-Methylphenol	106-44-5	1,500	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	1,700	18	180		1
04688	3-Nitroaniline	99-09-2	1,600	36	180		1
04688	4-Nitroaniline	100-01-6	1,200	73	180		1
04688	Nitrobenzene	98-95-3	1,500	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,100	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,300	18	180		1
04688	Pentachlorophenol	87-86-5	1,300	180	550		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,500	18	180		1
04688	Pyrene	129-00-0	1,900	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	36	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33	0.73	1.8		1
10138	Acenaphthylene	208-96-8	37	0.36	1.8		1
10138	Anthracene	120-12-7	37	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	37	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	37	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	47	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	13	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	41	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	47	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	44	6.6	20		1
10138	Chrysene	218-01-9	35	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	17	0.73	1.8		1

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Sample Description: **SL-017-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	38		6.6	20		1
10138	Dimethylphthalate	131-11-3	38		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56		6.6	20		1
10138	Fluoranthene	206-44-0	47		0.73	1.8		1
10138	Fluorene	86-73-7	37		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	16		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	36		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8		1
10138	Naphthalene	91-20-3	30		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	57		6.6	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	37		0.73	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,700		82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,700		55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,600		55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,700		55	160	10000000	1
10132	HMX	2691-41-0	2,300		140	410	10000000	1
10132	Nitrobenzene	98-95-3	2,700		55	160	10000000	1
10132	Nitroglycerin	55-63-0	56,000		1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	2,800		110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	2,800		140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	2,800		110	160	10000000	1
10132	PETN	78-11-5	63,000		1,100	3,300	10000000	1
10132	RDX	121-82-4	2,500		68	160	10000000	1
10132	Tetryl	479-45-8	3,000		84	160	10000000	1

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Sample Description: SL-017-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	3,000		55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,700		55	160	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.7		1.3	3.9		1
10401	Dalapon	75-99-0	19		4.8	9.8		1
10401	2,4-DB	94-82-6	8.2		0.68	1.9		1
10401	Dicamba	1918-00-9	1.1	J	0.44	1.3		1
10401	Dinoseb	88-85-7	1.4	J	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	11		0.87	1.9		1
10401	MCPA	94-74-6	870		83	270		1
10401	MCPP (Mecoprop)	93-65-2	820		82	270		1
10401	2,4,5-T	93-76-5	0.74		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.77		0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	5,700		660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	110		2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.25		0.072	0.19		1
01363	Alpha BHC	319-84-6	0.38		0.037	0.19		1
01363	Beta BHC	319-85-7	0.31		0.066	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.36		0.037	0.19		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.67		0.072	0.37		1
01363	p,p-DDE	72-55-9	0.56		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.82		0.072	0.37		1
01363	Delta BHC	319-86-8	0.31		0.039	0.19		1
01363	Dieldrin	60-57-1	0.70		0.072	0.37		1
01363	Endosulfan I	959-98-8	0.28		0.048	0.19		1
01363	Endosulfan II	33213-65-9	0.50		0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.78		0.072	0.37		1
01363	Endrin	72-20-8	0.71		0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.50		0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.55		0.072	0.37		1
01363	Heptachlor	76-44-8	0.49		0.066	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.33		0.037	0.19		1
01363	Methoxychlor	72-43-5	4.0		0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were

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Sample Description: SL-017-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	13		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	15		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.73	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	2.5		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	13		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	43		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.60	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,200		110	550		1
10501	Isopropanol	67-63-0	2,100		110	550		1
10501	Methanol	67-56-1	2,500		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	180		5.5	14		1
08283	Ethylene glycol	107-21-1	170		5.5	14		1
08283	Propylene glycol	57-55-6	210		5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	J	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.9	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.7	J	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,900		5.29	21.0		1
07914	Boron	7440-42-8	195		0.935	5.25		1

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Sample Description: SL-017-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	mg/kg	
01650	Calcium	7440-70-2	4,430	6.44	21.0		1
01654	Iron	7439-89-6	17,300	4.95	21.0		1
01656	Lithium	7439-93-2	120	0.23	2.1		1
01657	Magnesium	7439-95-4	3,990	2.67	10.5		1
06958	Manganese	7439-96-5	249	0.0820	0.525		1
10145	Phosphorus	7723-14-0	488	0.588	10.5		1
01662	Potassium	7440-09-7	3,620	18.9	52.5		1
01667	Sodium	7440-23-5	1,110	39.2	105		1
07968	Strontium	7440-24-6	127	0.0652	0.525		1
06969	Tin	7440-31-5	397	1.05	10.5		1
06970	Titanium	7440-32-6	1,400	0.831	2.19		2
10146	Zirconium	7440-67-7	108	0.883	5.25		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.689	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.39	0.0649	0.433		2
06126	Barium	7440-39-3	107	0.117	0.433		2
06127	Beryllium	7440-41-7	1.51	0.0173	0.108		2
06128	Cadmium	7440-43-9	1.49	0.0390	0.108		2
06131	Chromium	7440-47-3	38.0	0.130	0.433		2
06132	Cobalt	7440-48-4	71.0	0.0216	0.108		2
06133	Copper	7440-50-8	22.0	0.0714	0.433		2
06135	Lead	7439-92-1	9.86	0.0113	0.216		2
06138	Molybdenum	7439-98-7	14.6	0.0541	0.108		2
06139	Nickel	7440-02-0	25.5	0.108	0.433		2
06141	Selenium	7782-49-2	2.08	0.0433	0.433		2
06142	Silver	7440-22-4	13.8	0.0130	0.108		2
06145	Thallium	7440-28-0	0.808	0.0325	0.108		2
06148	Vanadium	7440-62-2	51.4	0.0238	0.108		2
06149	Zinc	7440-66-6	70.1	0.606	3.25		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.183	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.5	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.2	0.87	1.6		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	548	9.8	32.8		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	38.9	1.1	5.5		5

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Sample Description: **SL-017-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	6.2	0.20	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 21:07	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 09:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/20/2010 18:15	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 10:20	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 18:49	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490014A	12/17/2010 22:56	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/17/2010 16:05	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 19:53	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 10:29	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490014A	12/16/2010 02:10	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 18:28	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 21:09	Dustin A Underkoffler	1

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Sample Description: **SL-017-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 03:59	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 05:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 16:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 16:39	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 04:43	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 14:25	Ashley M Adams	1

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Sample Description: **SL-017-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162865
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 14:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 15:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10356243201A	12/28/2010 20:46	Ashley M Adams	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162866
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	872		18.2	36.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	1,300		180	550		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	4,400		1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,900		18	180		1
04688	Benzo(a)pyrene	50-32-8	2,000		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	2,100		18	180		1
04688	Benzoic acid	65-85-0	630		180	550		1
04688	Benzyl alcohol	100-51-6	1,600		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,900		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		36	180		1
04688	4-Chloroaniline	106-47-8	780		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,100		18	180		1
04688	2-Chloronaphthalene	91-58-7	2,000		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		36	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		18	180		1
04688	Dibenzofuran	132-64-9	1,800		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,700		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600		36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,900		36	180		1
04688	Dimethylphthalate	131-11-3	1,700		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,700	J	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,600		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		18	360		1
04688	Fluoranthene	206-44-0	1,700		18	180		1
04688	Fluorene	86-73-7	1,700		18	180		1
04688	Hexachlorobenzene	118-74-1	1,900		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		73	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-017-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162866
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,600	180	550		1
04688	Hexachloroethane	67-72-1	1,600	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000	18	180		1
04688	Isophorone	78-59-1	1,500	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,600	36	180		1
04688	4-Methylphenol	106-44-5	1,500	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	1,800	18	180		1
04688	3-Nitroaniline	99-09-2	1,600	36	180		1
04688	4-Nitroaniline	100-01-6	1,200	73	180		1
04688	Nitrobenzene	98-95-3	1,500	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,200	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,300	18	180		1
04688	Pentachlorophenol	87-86-5	1,500	180	550		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,400	18	180		1
04688	Pyrene	129-00-0	1,900	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	36	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.73	1.8		1
10138	Acenaphthylene	208-96-8	37	0.36	1.8		1
10138	Anthracene	120-12-7	37	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	38	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	37	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	46	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	15	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	42	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	47	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	40	6.6	20		1
10138	Chrysene	218-01-9	35	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	18	0.73	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162866
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	39		6.6	20		1
10138	Dimethylphthalate	131-11-3	40		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	66		6.6	20		1
10138	Fluoranthene	206-44-0	41		0.73	1.8		1
10138	Fluorene	86-73-7	38		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	17		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	36		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8		1
10138	Naphthalene	91-20-3	34		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	40		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	74		6.6	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	38		0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.

The GC/MS semivolatile internal standard peak areas were outside of QC limits. The background and matrix spike samples were analyzed and internal standard peak areas were again low but within QC limits, indicating a matrix effect.

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,800		82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,800		55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,800		55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,700		55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,800		55	160	10000000	1
10132	HMX	2691-41-0	2,400		140	410	10000000	1
10132	Nitrobenzene	98-95-3	2,800		55	160	10000000	1
10132	Nitroglycerin	55-63-0	59,000		1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	2,900		110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	2,900		140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	2,900		110	160	10000000	1
10132	PETN	78-11-5	67,000		1,100	3,300	10000000	1

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Sample Description: SL-017-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162866
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	2,600		68	160	10000000	1
10132	Tetryl	479-45-8	3,100		84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,400		55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,800		55	160	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.8		1.3	3.9		1
10401	Dalapon	75-99-0	17		4.8	9.8		1
10401	2,4-DB	94-82-6	11		0.68	1.9		1
10401	Dicamba	1918-00-9	1.2	J	0.44	1.3		1
10401	Dinoseb	88-85-7	1.8	J	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	11		0.87	1.9		1
10401	MCPA	94-74-6	1,100		83	270		1
10401	MCPP (Mecoprop)	93-65-2	1,300		82	270		1
10401	2,4,5-T	93-76-5	0.79		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.81		0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	5,300		660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	120		2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.24		0.072	0.19		1
01363	Alpha BHC	319-84-6	0.34		0.037	0.19		1
01363	Beta BHC	319-85-7	0.30		0.066	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.34		0.037	0.19		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.66		0.072	0.37		1
01363	p,p-DDE	72-55-9	0.54		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.79		0.072	0.37		1
01363	Delta BHC	319-86-8	0.28		0.039	0.19		1
01363	Dieldrin	60-57-1	0.67		0.072	0.37		1
01363	Endosulfan I	959-98-8	0.28		0.048	0.19		1
01363	Endosulfan II	33213-65-9	0.50		0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.68		0.072	0.37		1
01363	Endrin	72-20-8	0.67		0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.44		0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.54		0.072	0.37		1
01363	Heptachlor	76-44-8	0.47		0.066	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.33		0.037	0.19		1

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Sample Description: SL-017-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162866
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Methoxychlor	72-43-5	3.9		0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	17		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	15		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.71	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	2.5		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	9.2		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	27		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.61	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	550		1
10501	Isopropanol	67-63-0	2,100		110	550		1
10501	Methanol	67-56-1	2,500		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	190		5.5	14		1
08283	Ethylene glycol	107-21-1	160		5.5	14		1
08283	Propylene glycol	57-55-6	200		5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	J	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162866
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.9	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.7	J	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		5.50	21.9		1
07914	Boron	7440-42-8	199		0.973	5.46		1
01650	Calcium	7440-70-2	6,180		6.70	21.9		1
01654	Iron	7439-89-6	21,000		5.15	21.9		1
01656	Lithium	7439-93-2	127		0.24	2.2		1
01657	Magnesium	7439-95-4	4,730		2.78	10.9		1
06958	Manganese	7439-96-5	270		0.0852	0.546		1
10145	Phosphorus	7723-14-0	556		0.612	10.9		1
01662	Potassium	7440-09-7	4,190		19.7	54.6		1
01667	Sodium	7440-23-5	1,170		40.8	109		1
07968	Strontium	7440-24-6	131		0.0678	0.546		1
06969	Tin	7440-31-5	406		1.09	10.9		1
06970	Titanium	7440-32-6	1,350		0.814	2.14		2
10146	Zirconium	7440-67-7	110		0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.405		0.0631	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.84		0.0631	0.420		2
06126	Barium	7440-39-3	158		0.113	0.420		2
06127	Beryllium	7440-41-7	1.59		0.0168	0.105		2
06128	Cadmium	7440-43-9	1.69		0.0378	0.105		2
06131	Chromium	7440-47-3	40.1		0.126	0.420		2
06132	Cobalt	7440-48-4	72.2		0.0210	0.105		2
06133	Copper	7440-50-8	22.9		0.0694	0.420		2
06135	Lead	7439-92-1	11.2		0.0109	0.210		2
06138	Molybdenum	7439-98-7	15.4		0.0525	0.105		2
06139	Nickel	7440-02-0	26.8		0.105	0.420		2
06141	Selenium	7782-49-2	3.03		0.0420	0.420		2
06142	Silver	7440-22-4	14.6		0.0126	0.105		2
06145	Thallium	7440-28-0	0.891		0.0315	0.105		2
06148	Vanadium	7440-62-2	57.3		0.0231	0.105		2
06149	Zinc	7440-66-6	82.1		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.178		0.0031	0.109		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162866
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/24/2010 21:25	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 09:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/20/2010 18:48	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 11:02	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 18:59	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490014A	12/17/2010 23:24	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/17/2010 16:12	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 20:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 10:47	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490014A	12/16/2010 02:10	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 18:53	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 21:24	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 04:15	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 05:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 16:48	Eric L Eby	1

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162866
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 16:43	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 04:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/21/2010 18:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-017-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162867
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.50	21.9		1
07914	Boron	7440-42-8	3.04	J	0.973	5.46		1
01650	Calcium	7440-70-2	5,150		6.70	21.9		1
01654	Iron	7439-89-6	19,200		5.15	21.9		1
01656	Lithium	7439-93-2	18.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,330		2.78	10.9		1
06958	Manganese	7439-96-5	271		0.0852	0.546		1
10145	Phosphorus	7723-14-0	503		0.612	10.9		1
01662	Potassium	7440-09-7	2,880		19.7	54.6		1
01667	Sodium	7440-23-5	112		40.8	109		1
07968	Strontium	7440-24-6	26.9		0.0678	0.546		1
06969	Tin	7440-31-5	2.06	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,050		0.806	2.12		2
10146	Zirconium	7440-67-7	2.92	J	0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0837	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.33		0.0649	0.433		2
06126	Barium	7440-39-3	84.1		0.117	0.433		2
06127	Beryllium	7440-41-7	0.432		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.119		0.0390	0.108		2
06131	Chromium	7440-47-3	18.5		0.130	0.433		2
06132	Cobalt	7440-48-4	5.13		0.0216	0.108		2
06133	Copper	7440-50-8	8.32		0.0714	0.433		2
06135	Lead	7439-92-1	5.62		0.0113	0.216		2
06138	Molybdenum	7439-98-7	1.04		0.0541	0.108		2
06139	Nickel	7440-02-0	11.0		0.108	0.433		2
06141	Selenium	7782-49-2	0.160	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0213	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.210		0.0325	0.108		2
06148	Vanadium	7440-62-2	31.1		0.0238	0.108		2
06149	Zinc	7440-66-6	57.7		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0117	J	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-017-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162867
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	454		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.50		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 16:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 16:36	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 04:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:07	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162867
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3310 SDG#: DE033-10DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 19:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201A	12/20/2010 14:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201A	12/20/2010 14:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 15:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 21:18	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10355102202A	12/21/2010 20:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201A	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10355102202A	12/21/2010 15:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-01-SA5B-120910 Water**
SSFL Area IV Collocated Soil Sampling
EB-01-SA5B-120910

LLI Sample # WW 6162868
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3311 SDG#: DE033-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

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Sample Description: EB-01-SA5B-120910 Water
SSFL Area IV Collocated Soil Sampling
EB-01-SA5B-120910

LLI Sample # WW 6162868
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3311 SDG#: DE033-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1

Select compounds were outside of QC windows in the LCS associated with this sample. Sufficient sample was unavailable to repeat the analysis.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.077	J	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.26	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.090	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.22	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.032	J	0.010	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.075	J	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1

The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .16 ug/l
butylbenzylphthalate .074 ug/l
bis(2-ethylhexyl)phthalate .086 ug/l
di-n-octylphthalate .076 ug/l
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.51		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.082	U	0.082	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.51		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.51		1

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Analysis Report

Sample Description: EB-01-SA5B-120910 Water
SSFL Area IV Collocated Soil Sampling
EB-01-SA5B-120910

LLI Sample # WW 6162868
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3311 SDG#: DE033-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	51	U	51	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.051		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.051		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.0098		1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0098		1
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0098		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.0098		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.49		1
00177	p,p-DDD	72-54-8	0.0049	U	0.0049	0.020		1
00177	p,p-DDE	72-55-9	0.0049	U	0.0049	0.020		1
00177	p,p-DDT	50-29-3	0.0049	U	0.0049	0.020		1
00177	Delta BHC	319-86-8	0.0028	U	0.0028	0.0098		1
00177	Dieldrin	60-57-1	0.0052	U	0.0052	0.020		1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0098		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0057	U	0.0057	0.020		1
00177	Endrin	72-20-8	0.0079	U	0.0079	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.098		1
00177	Endrin Ketone	53494-70-5	0.0049	U	0.0049	0.020		1
00177	Heptachlor	76-44-8	0.0025	U	0.0025	0.0098		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.0098		1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.098		1
00177	Mirex	2385-85-5	0.083	U	0.083	0.25		1
00177	Toxaphene	8001-35-2	0.98	U	0.98	2.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.098	U	0.098	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1

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Sample Description: **EB-01-SA5B-120910 Water**
SSFL Area IV Collocated Soil Sampling
EB-01-SA5B-120910

LLI Sample # WW 6162868
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3311 SDG#: DE033-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.00010 J	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	5.6	0.010	0.010		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-01-SA5B-120910 Water
SSFL Area IV Collocated Soil Sampling
EB-01-SA5B-120910

LLI Sample # WW 6162868
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3311 SDG#: DE033-11EB

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10347WAE026	12/20/2010 06:10	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10347WAI026	12/15/2010 09:25	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10347WAE026	12/13/2010 14:30	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10347WAI026	12/14/2010 03:15	Sherry L Morrow	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103480009A	12/15/2010 19:00	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103470016A	12/18/2010 13:02	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103470015A	12/14/2010 19:17	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103470015A	12/14/2010 03:15	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103470016A	12/14/2010 03:15	Sherry L Morrow	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103480009A	12/14/2010 13:00	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
08014	Boron	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
01750	Calcium	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
01754	Iron	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
01756	Lithium	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
07058	Manganese	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
01762	Potassium	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
01767	Sodium	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
08068	Strontium	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
07069	Tin	SW-846 6010B	1	103471848006	12/15/2010 16:57	John P Hook	1
07070	Titanium	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103471848006	12/14/2010 19:16	John P Hook	1
06024	Antimony	SW-846 6020	1	103476050003A	12/16/2010 16:39	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06026	Barium	SW-846 6020	1	103476050003D	12/15/2010 00:30	David K Beck	1
06027	Beryllium	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06028	Cadmium	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06031	Chromium	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06032	Cobalt	SW-846 6020	1	103476050003A	12/16/2010 16:39	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06035	Lead	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06038	Molybdenum	SW-846 6020	1	103476050003C	12/16/2010 16:39	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06041	Selenium	SW-846 6020	1	103476050003B	12/15/2010 00:30	David K Beck	1
06042	Silver	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06045	Thallium	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB-01-SA5B-120910 Water
SSFL Area IV Collocated Soil Sampling
EB-01-SA5B-120910

LLI Sample # WW 6162868
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:10

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3311 SDG#: DE033-11EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06048	Vanadium	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
06049	Zinc	SW-846 6020	1	103476050003A	12/15/2010 00:30	David K Beck	1
00259	Mercury	SW-846 7470A	1	103475713002	12/14/2010 10:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103471848006	12/14/2010 10:25	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103476050003	12/14/2010 09:33	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103475713002	12/13/2010 15:25	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10350196902A	12/17/2010 07:29	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/20/2010 14:51	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10344113001A	12/10/2010 11:48	Nicole M Kepley	1
00200	22b pH by 9040B	SW-846 9040B	1	10349020001A	12/15/2010 22:30	Luz M Groff	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **TB-120910 Water**
SSFL Area IV Collocated Soil Sampling
TB-120910

LLI Sample # WW 6162869
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 16:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3312 SDG#: DE033-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-120910 Water**
SSFL Area IV Collocated Soil Sampling
TB-120910

LLI Sample # WW 6162869
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 16:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3312 SDG#: DE033-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103462AA	12/13/2010	17:10	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103491AA	12/15/2010	10:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y103462AA	12/13/2010	17:10	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E103491AA	12/15/2010	10:27	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10350A20A	12/16/2010	20:33	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10350A20A	12/16/2010	20:33	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB14-SA5C-120810 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5C-120810

LLI Sample # WW 6162870
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3313 SDG#: DE033-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.57		0.549	1.10		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of .696 ng/l. The blank value was not subtracted from the analytical result.							
	The QC limits for N-Nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB14-SA5C-120810 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5C-120810

LLI Sample # WW 6162870
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3313 SDG#: DE033-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.39	U	0.39	1.2		1
10407	Dalapon	75-99-0	0.61	U	0.61	3.0		1
10407	2,4-DB	94-82-6	0.73	U	0.73	2.4		1
10407	Dicamba	1918-00-9	0.19	U	0.19	0.73		1
10407	Dinoseb	88-85-7	0.24	U	0.24	1.2		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.39	U	0.39	1.2		1
10407	MCPA	94-74-6	730	U	730	2,400		1
10407	MCPP	93-65-2	120	U	120	490		1
10407	2,4,5-T	93-76-5	0.036	U	0.036	0.12		1
10407	2,4,5-TP	93-72-1	0.024	U	0.024	0.12		1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	17b Formaldehyde by 8315A	50-00-0	12	J	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.64		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.64		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.64		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.64		1
10365	EFH (C8-C11)	n.a.	0.11	U	0.11	0.64		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	520	J	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.086	U	0.086	0.27		1
10319	o-Terphenyl	84-15-1	0.086	U	0.086	0.27		1
10319	p-Terphenyl	92-94-4	0.086	U	0.086	0.27		1
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	mg/l	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	The collection time was not provided for this equipment blank.							
	SW-846 9012B		mg/l		mg/l	mg/l	mg/l	
08255	21b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB14-SA5C-120810 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5C-120810

LLI Sample # WW 6162870
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3313 SDG#: DE033-13EB

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	19b NDMA by 1625C	EPA 1625C	1	10347WAA026	12/21/2010 16:54	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	10347WAA026	12/13/2010 13:10	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10355B20A	12/22/2010 11:31	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10355B20A	12/22/2010 11:31	Carrie E Miller	1
10131	20b Energetics by 8330A	SW-846 8330A	1	103480011A	12/16/2010 03:19	Michele D Hamilton	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	103440024A	12/13/2010 18:07	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103490003A	12/17/2010 20:39	John W Perkins	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103490003A	12/15/2010 12:30	Kelli M Barto	1
01013	Formaldehyde Extraction	SW-846 8315A	1	103440024A	12/11/2010 08:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	103480011A	12/14/2010 16:40	Wanda F Oswald	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103460001A	12/19/2010 11:42	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	103480001A	12/14/2010 10:18	Dustin A Underkoffler	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	103480004A	12/14/2010 19:58	Robert Brown	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	103470004A	12/14/2010 20:47	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	103460001A	12/13/2010 09:30	Olivia Arosemena	1
10304	Terphenyls water prep	SW-846 3510C	1	103470004A	12/13/2010 14:00	Kelli M Barto	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	10344196901A	12/10/2010 17:05	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	10361117101A	12/27/2010 17:48	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	10361117101A	12/27/2010 11:30	Nancy J Shoop	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-029-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162871
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3314 SDG#: DE033-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-029-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162871
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3314 SDG#: DE033-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.94	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.6		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.2	J	6.6	20		1
10138	Fluoranthene	206-44-0	3.3		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.91	J	0.73	1.8		1
10138	Pyrene	129-00-0	2.8		0.73	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	2.9		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	210	U	210	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162871
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3314 SDG#: DE033-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.071	J	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.15	U	0.15	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	7.6		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.2		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							

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Sample Description: **SL-029-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162871
LLI Group # 1225035
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

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Suite 210
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E3314 SDG#: DE033-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.34	21.2		1
07914	Boron	7440-42-8	3.84	J	0.945	5.31		1
01650	Calcium	7440-70-2	4,400		6.51	21.2		1
01654	Iron	7439-89-6	17,100		5.00	21.2		1
01656	Lithium	7439-93-2	15.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,790		2.70	10.6		1
06958	Manganese	7439-96-5	215		0.0829	0.531		1
10145	Phosphorus	7723-14-0	423		0.595	10.6		1
01662	Potassium	7440-09-7	2,600		19.1	53.1		1
01667	Sodium	7440-23-5	141		39.6	106		1
07968	Strontium	7440-24-6	28.9		0.0659	0.531		1
06969	Tin	7440-31-5	2.12	J	1.06	10.6		1
06970	Titanium	7440-32-6	964		0.815	2.15		2
10146	Zirconium	7440-67-7	2.75	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0625	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.0		0.0625	0.417		2
06126	Barium	7440-39-3	90.5		0.113	0.417		2
06127	Beryllium	7440-41-7	0.429		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.134		0.0375	0.104		2
06131	Chromium	7440-47-3	26.1		0.125	0.417		2
06132	Cobalt	7440-48-4	5.77		0.0208	0.104		2
06133	Copper	7440-50-8	11.4		0.0688	0.417		2
06135	Lead	7439-92-1	6.49		0.0108	0.208		2
06138	Molybdenum	7439-98-7	1.84		0.0521	0.104		2
06139	Nickel	7440-02-0	13.3		0.104	0.417		2
06141	Selenium	7782-49-2	0.891		0.0417	0.417		2
06142	Silver	7440-22-4	0.0278	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.250		0.0313	0.104		2
06148	Vanadium	7440-62-2	40.7		0.0229	0.104		2
06149	Zinc	7440-66-6	55.7		0.584	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0041	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	30.9	J	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-029-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162871
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Collected: 12/08/2010 14:27

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Suite 210
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E3314 SDG#: DE033-14

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	442	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.40	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 13:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 11:20	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490014A	12/18/2010 00:46	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 20:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 12:20	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490014A	12/16/2010 02:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162871
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3314 SDG#: DE033-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:26	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 17:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 17:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 21:31	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	2	10347162401B	12/14/2010 05:05	William C Schwebel	1

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Analysis Report

Sample Description: SL-034-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162872
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3315 SDG#: DE033-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-034-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162872
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3315 SDG#: DE033-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.98	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.3	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.7	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	1.9		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.88	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.6	J	0.73	1.8		1

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	8.5		0.68	1.9		1
10401	Dicamba	1918-00-9	0.90	J	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	810		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-034-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162872
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3315 SDG#: DE033-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.13	J	0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.10	J	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

The LCS recovery for p,p-DDT and methoxychlor are outside the QC limits. Results from the reextraction are within the limits for p,p-DDT and methoxychlor. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts for p,p-DDT and methoxychlor.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,100		5.24	20.8		1
07914	Boron	7440-42-8	3.87	J	0.926	5.20		1
01650	Calcium	7440-70-2	3,900		6.38	20.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-034-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162872
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3315 SDG#: DE033-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	18,000		4.90	20.8		1
01656	Lithium	7439-93-2	17.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,750		2.64	10.4		1
06958	Manganese	7439-96-5	232		0.0812	0.520		1
10145	Phosphorus	7723-14-0	445		0.583	10.4		1
01662	Potassium	7440-09-7	3,030		18.7	52.0		1
01667	Sodium	7440-23-5	95.1	J	38.8	104		1
07968	Strontium	7440-24-6	23.6		0.0645	0.520		1
06969	Tin	7440-31-5	1.87	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,040		0.822	2.16		2
10146	Zirconium	7440-67-7	1.98	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.04		0.0637	0.424		2
06126	Barium	7440-39-3	113		0.115	0.424		2
06127	Beryllium	7440-41-7	0.508		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.177		0.0382	0.106		2
06131	Chromium	7440-47-3	23.0		0.127	0.424		2
06132	Cobalt	7440-48-4	6.55		0.0212	0.106		2
06133	Copper	7440-50-8	10.7		0.0700	0.424		2
06135	Lead	7439-92-1	7.21		0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.10		0.0531	0.106		2
06139	Nickel	7440-02-0	13.7		0.106	0.424		2
06141	Selenium	7782-49-2	0.229	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0315	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.314		0.0318	0.106		2
06148	Vanadium	7440-62-2	38.9		0.0233	0.106		2
06149	Zinc	7440-66-6	72.8		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	457		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-034-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162872
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3315 SDG#: DE033-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.95	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/22/2010 14:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 11:53	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490014A	12/18/2010 01:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 20:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 12:39	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490014A	12/16/2010 02:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162872
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3315 SDG#: DE033-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:30	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/21/2010 18:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 17:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 17:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 21:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	2	10347162401B	12/14/2010 05:05	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162873
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3316 SDG#: DE033-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162873
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3316 SDG#: DE033-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	7.5	J	6.7	20		1
10138	Chrysene	218-01-9	1.3	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.5	J	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.90	J	0.74	1.8		1
10138	Pyrene	129-00-0	1.2	J	0.74	1.8		1

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	3.4		0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	330	U	330	330		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162873
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3316 SDG#: DE033-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.14	U	0.14	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.58	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162873
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3316 SDG#: DE033-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		5.47	21.7		1
07914	Boron	7440-42-8	3.94	J	0.967	5.43		1
01650	Calcium	7440-70-2	4,030		6.66	21.7		1
01654	Iron	7439-89-6	14,800		5.12	21.7		1
01656	Lithium	7439-93-2	12.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,570		2.76	10.9		1
06958	Manganese	7439-96-5	182		0.0848	0.543		1
10145	Phosphorus	7723-14-0	480		0.609	10.9		1
01662	Potassium	7440-09-7	2,240		19.6	54.3		1
01667	Sodium	7440-23-5	105	J	40.5	109		1
07968	Strontium	7440-24-6	35.4		0.0674	0.543		1
06969	Tin	7440-31-5	1.63	J	1.09	10.9		1
06970	Titanium	7440-32-6	934		0.413	1.09		1
10146	Zirconium	7440-67-7	4.03	J	0.913	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0787	J	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.94		0.0640	0.426		2
06126	Barium	7440-39-3	106		0.115	0.426		2
06127	Beryllium	7440-41-7	0.456		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.164		0.0384	0.107		2
06131	Chromium	7440-47-3	34.0		0.128	0.426		2
06132	Cobalt	7440-48-4	7.16		0.0213	0.107		2
06133	Copper	7440-50-8	10.8		0.0704	0.426		2
06135	Lead	7439-92-1	5.89		0.0111	0.213		2
06138	Molybdenum	7439-98-7	1.83		0.0533	0.107		2
06139	Nickel	7440-02-0	17.7		0.107	0.426		2
06141	Selenium	7782-49-2	0.174	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0195	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.262		0.0320	0.107		2
06148	Vanadium	7440-62-2	44.2		0.0235	0.107		2
06149	Zinc	7440-66-6	59.3		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-035-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162873
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3316 SDG#: DE033-16

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	424	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.93	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/23/2010 02:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 12:27	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490014A	12/18/2010 01:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 20:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 12:57	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490014A	12/16/2010 02:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:38	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-035-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162873
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3316 SDG#: DE033-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 18:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 18:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 21:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	2	10347162401B	12/14/2010 05:05	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162874
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3317 SDG#: DE033-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162874
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3317 SDG#: DE033-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.93	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.9	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.1		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19	J	6.6	20		1
10138	Fluoranthene	206-44-0	2.2		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	7.3	J	6.6	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.74	1.8		1
10138	Pyrene	129-00-0	2.0		0.74	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	9.6	U	9.6	9.6		1
10401	Dicamba	1918-00-9	0.57	J	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	480		84	280		1
10401	MCPP (Mecoprop)	93-65-2	590		83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162874
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3317 SDG#: DE033-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.073	U	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.51	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		5.46	21.7		1
07914	Boron	7440-42-8	3.38	J	0.965	5.42		1
01650	Calcium	7440-70-2	3,500		6.65	21.7		1
01654	Iron	7439-89-6	14,200		5.11	21.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162874
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3317 SDG#: DE033-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	13.4		0.24	2.2		1
01657	Magnesium	7439-95-4	3,150		2.75	10.8		1
06958	Manganese	7439-96-5	186		0.0846	0.542		1
10145	Phosphorus	7723-14-0	324		0.607	10.8		1
01662	Potassium	7440-09-7	2,300		19.5	54.2		1
01667	Sodium	7440-23-5	83.6	J	40.5	108		1
07968	Strontium	7440-24-6	21.4		0.0672	0.542		1
06969	Tin	7440-31-5	1.96	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,020		0.832	2.19		2
10146	Zirconium	7440-67-7	2.09	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0978	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.16		0.0632	0.421		2
06126	Barium	7440-39-3	107		0.114	0.421		2
06127	Beryllium	7440-41-7	0.501		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.163		0.0379	0.105		2
06131	Chromium	7440-47-3	21.7		0.126	0.421		2
06132	Cobalt	7440-48-4	6.39		0.0211	0.105		2
06133	Copper	7440-50-8	9.76		0.0695	0.421		2
06135	Lead	7439-92-1	6.36		0.0110	0.211		2
06138	Molybdenum	7439-98-7	1.16		0.0527	0.105		2
06139	Nickel	7440-02-0	12.4		0.105	0.421		2
06141	Selenium	7782-49-2	0.128	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0308	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.315		0.0316	0.105		2
06148	Vanadium	7440-62-2	38.5		0.0232	0.105		2
06149	Zinc	7440-66-6	71.2		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	430		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162874
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3317 SDG#: DE033-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.87	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/23/2010 02:43	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 13:00	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490014A	12/18/2010 02:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 21:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 13:16	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490014A	12/16/2010 02:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162874
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3317 SDG#: DE033-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:47	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 15:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 15:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 15:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 15:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 18:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 18:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10356243201A	12/28/2010 22:16	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182101B	12/14/2010 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039401B	12/14/2010 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	2	10347162401B	12/14/2010 05:05	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.01
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.01
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.01
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.01
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.01
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1.01
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.01
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.01
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.01
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.01
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.01
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.01
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		1.01
06192	Methylene Chloride	75-09-2	0.68	J	0.26	4.4		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.01

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Sample Description: SL-022-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.01
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.52
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	162		18.3	36.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-022-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1

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Sample Description: SL-022-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.52
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1

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Sample Description: SL-022-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.66	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.75	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.41	21.5		1
07914	Boron	7440-42-8	1.80	J	0.958	5.38		1
01650	Calcium	7440-70-2	2,110		6.60	21.5		1
01654	Iron	7439-89-6	17,000		5.07	21.5		1
01656	Lithium	7439-93-2	16.1		0.24	2.2		1
01657	Magnesium	7439-95-4	3,140		2.73	10.8		1
06958	Manganese	7439-96-5	386		0.0839	0.538		1
10145	Phosphorus	7723-14-0	165		0.603	10.8		1
01662	Potassium	7440-09-7	2,220		19.4	53.8		1
01667	Sodium	7440-23-5	121		40.1	108		1
07968	Strontium	7440-24-6	16.4		0.0667	0.538		1
06969	Tin	7440-31-5	2.00	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,120		0.818	2.15		2
10146	Zirconium	7440-67-7	2.37	J	0.904	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0652	U	0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.17		0.0652	0.435		2
06126	Barium	7440-39-3	123		0.117	0.435		2
06127	Beryllium	7440-41-7	0.614		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.141		0.0391	0.109		2
06131	Chromium	7440-47-3	18.1		0.130	0.435		2
06132	Cobalt	7440-48-4	7.13		0.0217	0.109		2
06133	Copper	7440-50-8	8.85		0.0717	0.435		2
06135	Lead	7439-92-1	5.49		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.549		0.0543	0.109		2
06139	Nickel	7440-02-0	13.1		0.109	0.435		2
06141	Selenium	7782-49-2	0.0902	J	0.0435	0.435		2
06142	Silver	7440-22-4	0.0448	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.358		0.0326	0.109		2
06148	Vanadium	7440-62-2	35.3		0.0239	0.109		2
06149	Zinc	7440-66-6	50.4		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.88	1.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	473		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-022-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	17:33	Nicholas R Rossi	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	18:35	Jason M Long	22.52
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	20:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010	20:36	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/29/2010	12:08	Timothy J Trees	1

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Sample Description: **SL-022-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/23/2010 03:09	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 13:33	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 03:25	Marie D John	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:36	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 11:45	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 19:08	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 13:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 05:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480002A	12/14/2010 21:39	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480018A	12/15/2010 02:55	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/17/2010 20:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480018A	12/14/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480002A	12/14/2010 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:51	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:53	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2

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Sample Description: **SL-022-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162875
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3318 SDG#: DE033-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 16:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 16:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 16:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 16:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 19:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201B	12/20/2010 19:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10356243201A	12/28/2010 22:29	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3319 SDG#: DE033-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.7		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.84
06192	Methylene Chloride	75-09-2	1.5	J	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.84

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Sample Description: SL-022-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3319 SDG#: DE033-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.89
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	275		19.1	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1

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Sample Description: SL-022-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3319 SDG#: DE033-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.9	21		1

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SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3319 SDG#: DE033-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U	86	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	72	U	72	170	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

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E3319 SDG#: DE033-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	88	U	88	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected with the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

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Sample Description: SL-022-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

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E3319 SDG#: DE033-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.4	U	3.4	8.0		1
10318	o-Terphenyl	84-15-1	3.4	U	3.4	8.0		1
10318	p-Terphenyl	92-94-4	3.4	U	3.4	8.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		5.61	22.3		1
07914	Boron	7440-42-8	2.02	J	0.992	5.57		1
01650	Calcium	7440-70-2	2,410		6.83	22.3		1
01654	Iron	7439-89-6	21,700		5.25	22.3		1
01656	Lithium	7439-93-2	22.7		0.25	2.2		1
01657	Magnesium	7439-95-4	4,760		2.83	11.1		1
06958	Manganese	7439-96-5	334		0.0869	0.557		1
10145	Phosphorus	7723-14-0	79.2		0.624	11.1		1
01662	Potassium	7440-09-7	1,800		20.1	55.7		1
01667	Sodium	7440-23-5	987		41.6	111		1
07968	Strontium	7440-24-6	28.5		0.0691	0.557		1
06969	Tin	7440-31-5	2.49	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,210		0.839	2.21		2
10146	Zirconium	7440-67-7	2.42	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0675	U	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.05		0.0675	0.450		2
06126	Barium	7440-39-3	130		0.122	0.450		2
06127	Beryllium	7440-41-7	0.820		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.150		0.0405	0.113		2
06131	Chromium	7440-47-3	27.4		0.135	0.450		2
06132	Cobalt	7440-48-4	9.00		0.0225	0.113		2
06133	Copper	7440-50-8	9.02		0.0743	0.450		2
06135	Lead	7439-92-1	7.23		0.0117	0.225		2
06138	Molybdenum	7439-98-7	1.09		0.0563	0.113		2
06139	Nickel	7440-02-0	16.9		0.113	0.450		2
06141	Selenium	7782-49-2	0.116	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0425	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.380		0.0338	0.113		2
06148	Vanadium	7440-62-2	52.5		0.0248	0.113		2
06149	Zinc	7440-66-6	62.6		0.630	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	37.0		1.8	2.3		2
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.8		0.92	1.7		1

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Sample Description: **SL-022-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E3319 SDG#: DE033-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	421		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.69		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	12.9		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-022-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	17:55	Nicholas R Rossi	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	18:55	Jason M Long	21.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	21:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010	15:49	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010	15:49	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010	21:16	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/29/2010	12:25	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3319 SDG#: DE033-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/23/2010 03:35	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 14:07	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 04:02	Marie D John	21.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 21:16	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 12:27	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 19:18	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/23/2010 11:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 05:30	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 15:40	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/16/2010 21:37	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/17/2010 20:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 17:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:54	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 05:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2

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Sample Description: **SL-022-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162876
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3319 SDG#: DE033-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 16:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 16:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 16:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 16:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/21/2010 18:46	Ashley M Adams	2
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201B	12/20/2010 19:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 22:48	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162877
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:05

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3320 SDG#: DE033-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.9
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.9
06192	Methylene Chloride	75-09-2	1.1	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: SL-012-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162877
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:05

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3320 SDG#: DE033-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.1	J	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	88.0		18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1

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Sample Description: SL-012-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162877
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:05

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3320 SDG#: DE033-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.96	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.76	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162877
LLI Group # 1225035
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14420 Albemarle Point Place
Suite 210
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E3320 SDG#: DE033-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.83	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.76	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.84	J	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.72
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	85	U	85	170	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	4.2		0.37	1.9		1
10225	PCB-1254	11097-69-1	2.0		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.75	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	6.3		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	15		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	310	J	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	130	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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E3320 SDG#: DE033-20

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Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.32	21.2		1
07914	Boron	7440-42-8	2.63	J	0.942	5.29		1
01650	Calcium	7440-70-2	5,480		6.49	21.2		1
01654	Iron	7439-89-6	21,300		4.98	21.2		1
01656	Lithium	7439-93-2	21.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,690		2.69	10.6		1
06958	Manganese	7439-96-5	250		0.0825	0.529		1
10145	Phosphorus	7723-14-0	363		0.593	10.6		1
01662	Potassium	7440-09-7	3,040		19.0	52.9		1
01667	Sodium	7440-23-5	246		39.5	106		1
07968	Strontium	7440-24-6	22.5		0.0656	0.529		1
06969	Tin	7440-31-5	1.79	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,340		0.828	2.18		2
10146	Zirconium	7440-67-7	1.98	J	0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.30		0.0635	0.423		2
06126	Barium	7440-39-3	119		0.114	0.423		2
06127	Beryllium	7440-41-7	0.626		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.104	J	0.0381	0.106		2
06131	Chromium	7440-47-3	25.2		0.127	0.423		2
06132	Cobalt	7440-48-4	8.00		0.0212	0.106		2
06133	Copper	7440-50-8	12.5		0.0698	0.423		2
06135	Lead	7439-92-1	8.70		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.393		0.0529	0.106		2
06139	Nickel	7440-02-0	12.8		0.106	0.423		2
06141	Selenium	7782-49-2	0.215	J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0279	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.417		0.0317	0.106		2
06148	Vanadium	7440-62-2	51.7		0.0233	0.106		2
06149	Zinc	7440-66-6	80.4		0.593	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.0		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.89	1.7		1

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E3320 SDG#: DE033-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	436		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-012-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	18:17	Nicholas R Rossi	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	19:15	Jason M Long	23.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	20:49	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010	15:49	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010	20:49	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/29/2010	12:43	Timothy J Trees	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/23/2010 04:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 14:40	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 08:28	Marie D John	23.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:49	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 13:09	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 19:27	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 14:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 06:20	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 16:24	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/16/2010 20:32	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 06:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 18:00	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 17:58	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 06:01	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-012-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162877
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:05

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3320 SDG#: DE033-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 16:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/21/2010 18:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 16:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 16:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 19:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201B	12/20/2010 19:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10356243201A	12/28/2010 23:08	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:44	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-012-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162878
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3321 SDG#: DE033-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	13		7.5	9.0		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.92
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.92
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.92
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.92
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.92
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.92
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.92
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.92
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.92
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.92
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.92
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.92
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.92
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.92
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.92
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.92
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.92
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.92
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.92
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.92
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.92
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.92
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.92
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.92
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.92
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.92
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.92
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.92
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.92
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.92
06192	Methylene Chloride	75-09-2	2.3	J	0.27	4.5		0.92
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.92

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Sample Description: SL-012-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162878
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3321 SDG#: DE033-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.92
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.92
06192	Toluene	108-88-3	0.12	J	0.09	4.5		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.92
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.92
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.92
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.92
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.92
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		22.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	26.8	J	20.4	40.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	810	U	810	2,400		1

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Sample Description: **SL-012-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162878
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3321 SDG#: DE033-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	3.3		0.82	2.0		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.82	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	5.8		0.82	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.82	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.82	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	16	J	7.3	22		1
10138	Chrysene	218-01-9	4.9		0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	7.3	22		1

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Sample Description: SL-012-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162878
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3321 SDG#: DE033-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	6.3		0.82	2.0		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	J	0.82	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.0		1
10138	Naphthalene	91-20-3	0.82	U	0.82	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	1.1	J	0.82	2.0		1
10138	Pyrene	129-00-0	6.0		0.82	2.0		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.12
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	92	U	92	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	61	U	61	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	370	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	370	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	61	U	61	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	61	U	61	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	61	U	61	180	10000000	1
10132	HMX	2691-41-0	150	U	150	460	10000000	1
10132	Nitrobenzene	98-95-3	61	U	61	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,700	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,700	10000000	1
10132	RDX	121-82-4	76	U	76	180	10000000	1

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Sample Description: SL-012-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162878
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3321 SDG#: DE033-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	94	U	94	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	61	U	61	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	61	U	61	180	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	730	U	730	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.61	U	0.61	2.1		1
10225	PCB-1232	11141-16-5	0.64	U	0.64	2.1		1
10225	PCB-1242	53469-21-9	0.61	U	0.61	2.1		1
10225	PCB-1248	12672-29-6	2.1		0.40	2.1		1
10225	PCB-1254	11097-69-1	1.1	J	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.81	J	0.40	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C21-C30)	n.a.	10		0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	24		0.49	1.5		1
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	330	J	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	140	J	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1

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Sample Description: SL-012-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162878
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E3321 SDG#: DE033-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		6.03	24.0		1
07914	Boron	7440-42-8	3.90	J	1.07	5.99		1
01650	Calcium	7440-70-2	5,110		7.35	24.0		1
01654	Iron	7439-89-6	17,400		5.65	24.0		1
01656	Lithium	7439-93-2	15.0		0.26	2.4		1
01657	Magnesium	7439-95-4	4,030		3.04	12.0		1
06958	Manganese	7439-96-5	207		0.0935	0.599		1
10145	Phosphorus	7723-14-0	491		0.671	12.0		1
01662	Potassium	7440-09-7	2,440		21.6	59.9		1
01667	Sodium	7440-23-5	166		44.7	120		1
07968	Strontium	7440-24-6	36.2		0.0743	0.599		1
06969	Tin	7440-31-5	2.13	J	1.20	12.0		1
06970	Titanium	7440-32-6	942		0.451	1.19		1
10146	Zirconium	7440-67-7	4.32	J	1.01	5.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0733	0.244		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.79		0.0733	0.489		2
06126	Barium	7440-39-3	99.4		0.132	0.489		2
06127	Beryllium	7440-41-7	0.442		0.0196	0.122		2
06128	Cadmium	7440-43-9	0.195		0.0440	0.122		2
06131	Chromium	7440-47-3	37.3		0.147	0.489		2
06132	Cobalt	7440-48-4	7.59		0.0244	0.122		2
06133	Copper	7440-50-8	10.3		0.0807	0.489		2
06135	Lead	7439-92-1	5.41		0.0127	0.244		2
06138	Molybdenum	7439-98-7	3.87		0.0611	0.122		2
06139	Nickel	7440-02-0	19.3		0.122	0.489		2
06141	Selenium	7782-49-2	0.0888	J	0.0489	0.489		2
06142	Silver	7440-22-4	0.0168	J	0.0147	0.122		2
06145	Thallium	7440-28-0	0.254		0.0367	0.122		2
06148	Vanadium	7440-62-2	45.5		0.0269	0.122		2
06149	Zinc	7440-66-6	55.6		0.685	3.67		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035	U	0.0035	0.121		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.98	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.98	1.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

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E3321 SDG#: DE033-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	434		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.49		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	18.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-012-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	18:40	Nicholas R Rossi	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010	19:34	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	20:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010	20:53	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/29/2010	13:02	Timothy J Trees	1

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SL-012-SA5C-SB-9.0-10.0

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/23/2010 04:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 15:13	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 09:04	Marie D John	22.12
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:54	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 13:52	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 19:47	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 14:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 08:24	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 16:39	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/16/2010 16:09	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/17/2010 23:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 18:03	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 18:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 06:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2

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Sample Description: SL-012-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162878
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E3321 SDG#: DE033-21

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 16:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 16:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 16:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 16:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 19:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201B	12/20/2010 19:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 23:14	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:45	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3322 SDG#: DE033-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6		0.86
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.86
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.86
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.86
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.86
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.86
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.86
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.86
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.86
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.86
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.86
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.86
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.86
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.86
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.86
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.86
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.86
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.86
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.86
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.86
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.86
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.86
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.86
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.86
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.86
06192	Methylene Chloride	75-09-2	0.49	J	0.23	3.8		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.86

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Sample Description: SL-013-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3322 SDG#: DE033-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.86
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.86
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.63
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	56.3		18.3	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-013-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3322 SDG#: DE033-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.3		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Sample Description: **SL-013-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

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E3322 SDG#: DE033-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	4.3		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.73	1.8		1
10138	Pyrene	129-00-0	3.7		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1

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Sample Description: SL-013-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

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E3322 SDG#: DE033-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.2	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.76	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.48	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	15		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	37		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	260	J	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-013-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3322 SDG#: DE033-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.30	21.1		1
07914	Boron	7440-42-8	2.86	J	0.938	5.27		1
01650	Calcium	7440-70-2	2,910		6.46	21.1		1
01654	Iron	7439-89-6	17,700		4.97	21.1		1
01656	Lithium	7439-93-2	17.9		0.23	2.1		1
01657	Magnesium	7439-95-4	3,530		2.68	10.5		1
06958	Manganese	7439-96-5	243		0.0822	0.527		1
10145	Phosphorus	7723-14-0	287		0.590	10.5		1
01662	Potassium	7440-09-7	2,250		19.0	52.7		1
01667	Sodium	7440-23-5	157		39.3	105		1
07968	Strontium	7440-24-6	16.4		0.0654	0.527		1
06969	Tin	7440-31-5	2.68	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,090		0.801	2.11		2
10146	Zirconium	7440-67-7	1.48	J	0.886	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.17		0.0651	0.434		2
06126	Barium	7440-39-3	118		0.117	0.434		2
06127	Beryllium	7440-41-7	0.707		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.170		0.0391	0.109		2
06131	Chromium	7440-47-3	22.3		0.130	0.434		2
06132	Cobalt	7440-48-4	7.27		0.0217	0.109		2
06133	Copper	7440-50-8	10.4		0.0717	0.434		2
06135	Lead	7439-92-1	8.53		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.824		0.0543	0.109		2
06139	Nickel	7440-02-0	12.8		0.109	0.434		2
06141	Selenium	7782-49-2	0.204	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0413	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.350		0.0326	0.109		2
06148	Vanadium	7440-62-2	45.0		0.0239	0.109		2
06149	Zinc	7440-66-6	71.3		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0048	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.2		0.88	1.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1

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Sample Description: SL-013-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3322 SDG#: DE033-22

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	450	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.70	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-013-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010 19:02	Nicholas R Rossi	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103492AA	12/15/2010 19:54	Jason M Long	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 21:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010 15:49	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010 15:49	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010 21:03	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/29/2010 13:18	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/23/2010 04:54	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 15:46	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 09:40	Marie D John	22.48

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Sample Description: **SL-013-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3322 SDG#: DE033-22

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 21:03	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 14:34	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 19:56	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 14:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 08:49	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 16:54	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/16/2010 16:25	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/18/2010 07:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 18:07	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 18:05	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 06:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 16:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2

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Sample Description: **SL-013-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162879
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3322 SDG#: DE033-22

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103491026002C	12/17/2010 16:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 16:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 16:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 20:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201B	12/20/2010 20:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 23:27	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:48	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3323 SDG#: DE033-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.85
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.85
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.85
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.85
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.85
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.85
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.85
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.85
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.85
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.85
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.85
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.85
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.85
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.85
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.85
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.85
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.85
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.85
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.85
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.85
06192	Methylene Chloride	75-09-2	0.80	J	0.22	3.7		0.85
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.85

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Sample Description: SL-013-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3323 SDG#: DE033-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.85
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.85
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.74
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	106		18.3	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3323 SDG#: DE033-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-chloroisopropyl)ether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.0		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.6		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	15	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	3.1		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33		6.6	20		1

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SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3323 SDG#: DE033-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	3.5		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.99	J	0.73	1.8		1
10138	Pyrene	129-00-0	3.8		0.73	1.8		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.5 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	160	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
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Project Name: SSFL Area IV Collocated Soil Sampling

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E3323 SDG#: DE033-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.79	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.56	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	12		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	260	J	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.3	U	3.3	7.7		1

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SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E3323 SDG#: DE033-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	3.3	U	3.3	7.7		1
10318	p-Terphenyl	92-94-4	3.3	U	3.3	7.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,000		5.25	20.9		1
07914	Boron	7440-42-8	2.48	J	0.929	5.22		1
01650	Calcium	7440-70-2	3,070		6.40	20.9		1
01654	Iron	7439-89-6	14,300		4.92	20.9		1
01656	Lithium	7439-93-2	13.1		0.23	2.1		1
01657	Magnesium	7439-95-4	2,950		2.65	10.4		1
06958	Manganese	7439-96-5	188		0.0815	0.522		1
10145	Phosphorus	7723-14-0	249		0.585	10.4		1
01662	Potassium	7440-09-7	1,940		18.8	52.2		1
01667	Sodium	7440-23-5	117		39.0	104		1
07968	Strontium	7440-24-6	13.9		0.0647	0.522		1
06969	Tin	7440-31-5	1.78	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,000		0.809	2.13		2
10146	Zirconium	7440-67-7	0.977	J	0.877	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0658	U	0.0658	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.13		0.0658	0.439		2
06126	Barium	7440-39-3	109		0.118	0.439		2
06127	Beryllium	7440-41-7	0.567		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.120		0.0395	0.110		2
06131	Chromium	7440-47-3	18.6		0.132	0.439		2
06132	Cobalt	7440-48-4	6.05		0.0219	0.110		2
06133	Copper	7440-50-8	9.51		0.0724	0.439		2
06135	Lead	7439-92-1	6.65		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.429		0.0548	0.110		2
06139	Nickel	7440-02-0	10.9		0.110	0.439		2
06141	Selenium	7782-49-2	0.116	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0312	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.333		0.0329	0.110		2
06148	Vanadium	7440-62-2	39.2		0.0241	0.110		2
06149	Zinc	7440-66-6	61.7		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.88	1.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3323 SDG#: DE033-23*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	448		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-013-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103481AA	12/14/2010	19:24	Nicholas R Rossi	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/15/2010	23:11	Sara E Johnson	21.74
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	21:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010	15:49	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010	15:49	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010	21:10	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10350SLF026	12/29/2010	13:38	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3323 SDG#: DE033-23*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10348SLG026	12/23/2010 05:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLF026	12/21/2010 16:20	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10350SLF026	12/17/2010 01:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLF026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10348SLG026	12/15/2010 07:05	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 10:17	Marie D John	21.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 21:11	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103510022A	12/21/2010 16:41	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480008A	12/17/2010 20:06	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103490013A	12/19/2010 15:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103490013A	12/15/2010 21:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480008A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103510022A	12/19/2010 17:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103490010A	12/21/2010 09:14	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 17:08	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/16/2010 16:41	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103500031A	12/17/2010 22:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103490010A	12/15/2010 19:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103500031A	12/17/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708002	12/16/2010 18:10	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103505708003	12/20/2010 18:09	John P Hook	2
10146	Zirconium	SW-846 6010B	1	103495708002	12/16/2010 06:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162880
LLI Group # 1225035
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 15:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3323 SDG#: DE033-23*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026002D	12/17/2010 16:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026002C	12/21/2010 18:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026002B	12/17/2010 16:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026002A	12/17/2010 16:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711002	12/15/2010 20:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708002	12/15/2010 10:35	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103505708003	12/17/2010 19:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026002	12/15/2010 11:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711002	12/15/2010 12:17	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10352352201B	12/20/2010 20:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10352352201B	12/20/2010 20:20	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10356243201A	12/28/2010 23:40	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10352352201B	12/19/2010 16:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10356243201A	12/22/2010 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103481AA	Sample number(s): 6162855-6162858,6162860-6162864,6162875-6162880									
Acetone	6.7	U	6.7	8.0	ug/kg	172	170	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	104	102	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	96	94	79-120	3	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	101	100	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	82	79	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	126	125	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	99	94	72-120	4	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	98	95	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	95	92	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	99	69-122	4	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	87	85	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	96	95	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	103	101	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	76	78	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	95	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	95	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	100	96	22-131	4	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90	88	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	96	95	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95	96	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	96	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	96	94	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97	94	79-120	3	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	51	49	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103	100	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	101	100	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	100	98	73-123	3	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	101	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103	98	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	96	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	99	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	101	98	77-120	3	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	93	93	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91	92	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	97	80-120	3	30
Freon 113	0.11	U	0.11	4.0	ug/kg	92	87	61-126	5	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	92	89	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	93	88	57-120	5	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	83	84	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	97	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	96	75-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96	96	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	75	73	61-134	3	30
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	98	98	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101	97	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	97	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	98	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	93	91	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	98	77-120	3	30
Toluene	0.11	J	0.08	4.0	ug/kg	99	97	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95	92	64-120	3	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94	91	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	90	86	71-125	5	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97	96	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	99	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	82	78	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	94	93	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	99	95	79-120	4	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99	96	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	79	76	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	98	80-120	3	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	95	80-120	2	30
Batch number: E103491AA	Sample number(s): 6162859,6162869									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	100	107	60-132	6	30
Batch number: E103492AA	Sample number(s): 6162855-6162858,6162860-6162864,6162875-6162879									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	106	70-130	1	30
Batch number: E103493AA	Sample number(s): 6162880									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	112	70-130	4	30
Batch number: Y103462AA	Sample number(s): 6162859,6162869									
Acetone	6	U	6.	20	ug/l	122	123	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	96	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	104	104	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	98	95	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	91	92	80-120	1	30
Bromoform	1	U	1.	5	ug/l	96	98	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	89	88	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	95	96	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	100	99	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	105	104	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	98	98	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	98	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	97	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	93	88	49-129	5	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	104	104	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	98	97	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	86	85	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	104	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	93	97	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	112	112	66-120	0	30
Dibromochloromethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	102	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	95	96	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	98	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	101	80-120	1	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	99	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	70	68	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	95	95	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	100	97	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	96	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	92	91	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	98	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	90	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	95	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	89	89	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	94	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	99	95	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	98	102	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	91	92	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	104	106	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	97	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	103	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	95	96	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	97	96	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	99	99	80-120	0	30
n-Propylbenzene	1	U	1.	5	ug/l	109	108	80-120	1	30
Styrene	1	U	1.	5	ug/l	96	97	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	101	102	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	108	107	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	98	100	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	98	99	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	99	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	97	98	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	86	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	100	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	92	93	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	83	80	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	107	111	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	106	106	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	103	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	83	82	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	95	96	80-120	1	30
Batch number: 10347WAA026	Sample number(s): 6162870									
N-Nitrosodimethylamine	0.696	J	0.500	1.00	ng/l	97	60*	70-130	47*	30
Batch number: 10347WAE026	Sample number(s): 6162868									
Aniline	1	U	1.	5	ug/l	55	59	49-101	7	30
Benzidine	20	U	20.	60	ug/l	50	58	20-109	14	30
Benzoic acid	6	U	6.	15	ug/l	29	19	10-69	39*	30
Benzyl alcohol	5	U	5.	15	ug/l	69	69	66-97	0	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	83	89	82-117	7	30
Carbazole	1	U	1.	5	ug/l	76*	79*	81-114	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	86	88	70-123	3	30
4-Chloroaniline	1	U	1.	5	ug/l	46	57	42-124	22	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	80	84	74-124	5	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	83	82	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	78	76	62-127	3	30
2-Chloronaphthalene	2	U	2.	5	ug/l	62	65	54-132	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chlorophenol	1	U	1.	5	ug/l	81	79	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	84	86	82-111	3	30
Dibenzofuran	1	U	1.	5	ug/l	79*	82*	83-108	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	72	72	67-108	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	73	70	63-110	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	72	71	65-113	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	44*	54	49-111	21	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	85	89	80-109	4	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	81	86	72-110	6	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	101	110	70-130	9	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	80	81	78-119	0	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	70	65	64-120	8	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	81	84	81-115	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	83*	84*	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	81	85	78-116	5	30
Hexachlorobenzene	1	U	1.	5	ug/l	83	84	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	77	84	57-124	9	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	50	54	10-118	8	30
Hexachloroethane	1	U	1.	5	ug/l	72	73	52-113	1	30
Isophorone	1	U	1.	5	ug/l	81	86	74-117	5	30
2-Methylphenol	1	U	1.	5	ug/l	72	74	64-101	3	30
4-Methylphenol	2	U	2.	5	ug/l	67	72	61-103	7	30
2-Nitroaniline	1	U	1.	5	ug/l	76*	80*	83-116	6	30
3-Nitroaniline	1	U	1.	5	ug/l	75	76	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	58*	60	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	78	83	75-109	7	30
2-Nitrophenol	1	U	1.	5	ug/l	77*	81*	86-120	5	30
4-Nitrophenol	10	U	10.	30	ug/l	33	39	16-78	17	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	85	84	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	81	84	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	63	66	53-110	4	30
Phenol	1	U	1.	5	ug/l	30	34	29-67	15	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	76	80	71-112	5	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	82	81	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	88	87	81-113	1	30
Batch number: 10347WAI026	Sample number(s): 6162868									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	101	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	102	103	70-110	0	30
Anthracene	0.010	U	0.010	0.050	ug/l	100	103	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	99	103	72-114	4	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	92	95	64-115	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	101	102	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	93	94	68-125	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	93	95	72-122	2	30
Butylbenzylphthalate	0.074	J	0.050	1.0	ug/l	101	102	70-130	1	30
Di-n-butylphthalate	0.16	J	0.050	1.0	ug/l	100	101	70-130	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	96	97	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	93	94	71-125	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	107	109	70-130	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	105	105	70-130	0	30
Bis(2-Ethylhexyl)phthalate	0.086	J	0.050	1.0	ug/l	103	105	70-130	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	102	102	75-116	1	30
Fluorene	0.010	U	0.010	0.050	ug/l	105	103	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	93	95	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	99	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	88	88	75-115	0	30
Naphthalene	0.010	U	0.010	0.050	ug/l	93	94	72-109	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	67*	68*	70-130	3	30
Di-n-octylphthalate	0.076	J	0.050	1.0	ug/l	92	95	70-130	3	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	97	97	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	98	101	69-118	2	30
Batch number: 10348SLG026	Sample number(s): 6162855-6162858,6162860-6162866,6162871-6162880									
Acenaphthene	17	U	17.	170	ug/kg	92		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	94		75-122		
Aniline	170 U		170.	500	ug/kg	77		10-107		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	79		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	107		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	112		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	101		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	107		67-125		
Benzoic acid	170 U		170.	500	ug/kg	90		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	102		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	99		79-112		
Carbazole	17	U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	83		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	86		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	58*		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	73		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	103		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	94		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	94		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	110		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	100		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	96		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	90		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	80		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	101		64-119		
Isophorone	17	U	17.	170	ug/kg	82		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	93		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	83		66-117		
Naphthalene	17	U	17.	170	ug/kg	88		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	82		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	68		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	74		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	80		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	121		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	87		35-106		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	79		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		

Batch number: 10349SLF026 Sample number(s): 6162855-6162858,6162860-6162866,6162871-6162880

Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	101		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	93		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	88		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	110		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	90		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	113		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		70-130		
Bis(2-Ethylhexyl)phthalate	6.5	J	6.0	18	ug/kg	115		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		56-121		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10350SLF026	Sample number(s): 6162855-6162858,6162860-6162866,6162875-6162880									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	95		70-130		
Batch number: 10340B34B	Sample number(s): 6162855-6162857,6162860									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72	78	67-119	8	30
Batch number: 10348A34A	Sample number(s): 6162858,6162861-6162864,6162875-6162880									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	75	69	67-119	8	30
Batch number: 10350A20A	Sample number(s): 6162869									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 10351B53B	Sample number(s): 6162859									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	86	86	75-135	0	30
Batch number: 10355B20A	Sample number(s): 6162870									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 103480011A	Sample number(s): 6162870									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	98	88	80-120	11	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	84	80-120	11	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	70*	87	75-125	21	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	70*	87	75-125	21	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	98	92	72-117	6	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	87	80-120	8	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	97	80-120	13	30
HMX	0.65	U	0.65	2.0	ug/l	95	90	65-125	5	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	92	85	75-121	8	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	88	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	95	86	74-120	10	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	95	86	69-107	10	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	95	87	80-120	9	30
PETN	6.0	U	6.0	18	ug/l	104	100	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	95	90	70-125	5	30
Tetryl	0.40	U	0.40	0.60	ug/l	130	120	33-147	8	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	110	100	53-129	10	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	94	76-109	6	30
Batch number: 103510022A	Sample number(s): 6162855-6162858,6162860-6162866,6162875-6162880									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	115		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	96	96	54-134	1	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	96	95	54-134	1	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	113		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	110		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	115		80-120		
HMX	130 U		130.	380	ug/kg	102		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	113		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	99		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	114		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	115		73-127		
4-Nitrotoluene	100		100.	150	ug/kg	114		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PETN	1,000 U		1,000.	3,000	ug/kg	114		80-120		
RDX	63	U	63.	150	ug/kg	114		75-131		
Tetryl	77	U	77.	150	ug/kg	142		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	130		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	116		80-120		
Batch number: 103440024A	Sample number(s): 6162870									
17b Formaldehyde by 8315A	10	U	10.	50	ug/l	98	101	69-130	1	30
Batch number: 103480008A	Sample number(s): 6162855-6162858,6162860-6162866,6162875-6162880									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	99		80-126		
Batch number: 103480009A	Sample number(s): 6162868									
2,4-D	0.16	U	0.16	0.50	ug/l	108	108	45-128	0	30
Dalapon	0.25	U	0.25	1.3	ug/l	78	75	40-100	4	30
2,4-DB	0.30	U	0.30	1.0	ug/l	80	84	41-138	5	30
Dicamba	0.080	U	0.080	0.30	ug/l	100	100	51-144	0	30
Dinoseb	0.10	U	0.10	0.50	ug/l	40	60	23-93	42*	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	112	112	72-145	0	30
MCPA	300 U		300.	1,000	ug/l	90	88	69-129	2	30
MCPP	50	U	50.	200	ug/l	96	100	66-132	4	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	112	112	53-141	0	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	100	100	56-135	0	30
Batch number: 103490003A	Sample number(s): 6162870									
2,4-D	0.16	U	0.16	0.50	ug/l	112	108	45-128	4	30
Dalapon	0.25	U	0.25	1.3	ug/l	92	97	40-100	5	30
2,4-DB	0.30	U	0.30	1.0	ug/l	100	100	41-138	0	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	112	51-144	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	53	42	23-93	24	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	116	116	72-145	0	30
MCPA	300 U		300.	1,000	ug/l	92	72	69-129	24	30
MCPP	50	U	50.	200	ug/l	96	92	66-132	4	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	104	108	53-141	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	100	96	56-135	4	30
Batch number: 103490014A	Sample number(s): 6162864-6162866,6162871-6162874									
2,4-D	1.2	U	1.2	3.6	ug/kg	102		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	75		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	101		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	92		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	126		60-141		
MCPA	76	U	76.	250	ug/kg	92		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	114		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	59		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	86		48-138		
Batch number: 103490017A	Sample number(s): 6162858,6162860-6162866									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 103470015A	Sample number(s): 6162868									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5442	0.10	U	0.10	0.50	ug/l	68*	60*	75-125	13	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	106	104	68-119	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	114	106	68-121	7	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103470016A	Sample number(s): 6162868									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	101	54-159	10	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	112	112	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	103	101	73-147	2	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	111	101	68-128	10	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	105	100	71-139	5	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	105	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	90	85	53-126	6	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	110	105	76-132	5	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	97	94	68-128	3	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	105	100	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	110	100	71-142	10	30
Endrin	0.0081	U	0.0081	0.020	ug/l	70	70	52-132	0	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	120	115	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	125	115	69-146	8	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	102	100	57-126	2	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	102	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	91	87	52-133	4	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103490013A	Sample number(s): 6162855-6162858,6162860-6162863,6162865-6162866,6162871-6162875,6162877-6162880									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	50*	59*	75-125	17	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	79		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	70		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103500011A	Sample number(s): 6162864-6162866,6162871-6162874									
Aldrin	0.066	U	0.066	0.17	ug/kg	94		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	112		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	118		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	131		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	100		59-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p,p-DDT	0.066	U	0.066	0.34	ug/kg	134*		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	99		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	112		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	95		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	113		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	121		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	98		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	116		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	106		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	141*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103540019A	Sample number(s): 6162864,6162876									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	58*	55*	75-125	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	116		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103460001A	Sample number(s): 6162870									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	112	110	60-120	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	112	113	60-120	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	108	108	60-120	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	107	107	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	88	88	60-120	0	30
Batch number: 103490010A	Sample number(s): 6162855-6162858,6162860-6162863,6162875-6162880									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	104		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	112		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	108		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		66-113		
Batch number: 103560020A	Sample number(s): 6162864-6162866									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	97		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	67		66-113		
Batch number: 103480001A	Sample number(s): 6162870									
Ethanol	200 U		200.	1,000	ug/l	96		66-132		
Isopropanol	200 U		200.	1,000	ug/l	92		75-125		
Methanol	200 U		200.	1,000	ug/l	96		77-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103480002A	Sample number(s): 6162855-6162858,6162860-6162866,6162875									
Ethanol	100	U	100.	500	ug/kg	96		75-112		
Isopropanol	100	U	100.	500	ug/kg	95		75-125		
Methanol	100	U	100.	500	ug/kg	104		75-134		
Batch number: 103480003A	Sample number(s): 6162876-6162880									
Ethanol	100	U	100.	500	ug/kg	86		75-112		
Isopropanol	100	U	100.	500	ug/kg	88		75-125		
Methanol	100	U	100.	500	ug/kg	87		75-134		
Batch number: 103480004A	Sample number(s): 6162870									
Diethylene glycol	10	U	10.	100	mg/l	100		78-126		
Ethylene glycol	10	U	10.	100	mg/l	95		80-124		
Propylene glycol	10	U	10.	100	mg/l	95		80-120		
Batch number: 103480018A	Sample number(s): 6162855-6162858,6162860-6162866,6162875									
Diethylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	87		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Batch number: 103480019A	Sample number(s): 6162876-6162880									
Diethylene glycol	5.0	U	5.0	13	mg/kg	92		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	85		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	93		75-125		
Batch number: 103470004A	Sample number(s): 6162870									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	97	100	75-125	3	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	98	100	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	95	98	75-125	3	20
Batch number: 103500031A	Sample number(s): 6162855-6162858,6162860-6162866,6162875-6162880									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
Batch number: 103471848006	Sample number(s): 6162868									
Aluminum	0.0834	U	0.0834	0.200	mg/l	97	95	90-112	1	20
Boron	0.0138	U	0.0138	0.0500	mg/l	99	98	90-110	1	20
Calcium	0.0702	U	0.0702	0.200	mg/l	106	107	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	101	100	90-112	1	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	103	103	80-120	0	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	106	106	89-110	0	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	106	104	90-110	1	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	101	102	80-120	0	20
Potassium	0.239	U	0.239	0.500	mg/l	105	105	85-115	1	20
Sodium	0.433	U	0.433	1.00	mg/l	104	104	87-114	0	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	101	100	90-110	1	20
Tin	0.0098	U	0.0098	0.0200	mg/l	102	102	90-110	0	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	103	102	90-113	1	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	104	104	80-120	1	20
Batch number: 103475713002	Sample number(s): 6162868									

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	103	103	80-120	0	20
Batch number: 103476050003A	Sample number(s): 6162868								
Antimony	0.00030 U	0.00030	0.0010	mg/l	101	110	87-110	8	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	108	108	86-111	1	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-112	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	100	106	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	104	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	103	80-120	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	106	109	90-113	3	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	103	104	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	109	109	90-113	0	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	102	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	105	104	89-116	1	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	102	108	80-120	6	20
Zinc	0.0051 J	0.0040	0.0150	mg/l	95	96	80-120	1	20
Batch number: 103476050003B	Sample number(s): 6162868								
Selenium	0.00025 U	0.00025	0.0020	mg/l	103	108	85-114	5	20
Batch number: 103476050003C	Sample number(s): 6162868								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	107	107	80-120	1	20
Batch number: 103476050003D	Sample number(s): 6162868								
Barium	0.00038 U	0.00038	0.0020	mg/l	100	102	88-113	2	20
Batch number: 103491026002A	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880								
Antimony	0.0577 U	0.0577	0.192	mg/kg	61		11-208		
Arsenic	0.0577 U	0.0577	0.385	mg/kg	93		80-120		
Beryllium	0.0154 U	0.0154	0.0962	mg/kg	95		82-118		
Cadmium	0.0346 U	0.0346	0.0962	mg/kg	98		82-118		
Chromium	0.115 U	0.115	0.385	mg/kg	102		80-120		
Cobalt	0.0192 U	0.0192	0.0962	mg/kg	106		82-118		
Copper	0.334 J	0.0635	0.385	mg/kg	101		80-120		
Lead	0.0100 U	0.0100	0.192	mg/kg	100		80-120		
Nickel	0.0962 U	0.0962	0.385	mg/kg	104		80-120		
Silver	0.0115 U	0.0115	0.0962	mg/kg	94		66-134		
Thallium	0.0288 U	0.0288	0.0962	mg/kg	98		81-119		
Vanadium	0.0212 U	0.0212	0.0962	mg/kg	92		90-110		
Zinc	0.538 U	0.538	2.88	mg/kg	99		78-122		
Batch number: 103491026002B	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880								
Selenium	0.0385 U	0.0385	0.385	mg/kg	102		79-122		
Batch number: 103491026002C	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880								
Molybdenum	0.0481 U	0.0481	0.0962	mg/kg	99		78-122		
Batch number: 103491026002D	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880								
Barium	0.104 U	0.104	0.385	mg/kg	96		79-121		
Batch number: 103495708002	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880								
Aluminum	4.88 U	4.88	19.4	mg/kg	82		61-110		
Boron	0.864 U	0.864	4.85	mg/kg	84		78-110		
Calcium	5.95 U	5.95	19.4	mg/kg	101		88-110		
Iron	4.57 U	4.57	19.4	mg/kg	85		61-110		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lithium	0.21	U	0.21	1.9	mg/kg	102		80-120		
Magnesium	2.47	U	2.47	9.71	mg/kg	91		82-110		
Manganese	0.0757	U	0.0757	0.485	mg/kg	97		81-119		
Phosphorus	0.649	J	0.544	9.71	mg/kg	99		80-120		
Potassium	17.5	U	17.5	48.5	mg/kg	94		78-110		
Sodium	36.2	U	36.2	97.1	mg/kg	91		87-110		
Strontium	0.0602	U	0.0602	0.485	mg/kg	100		79-121		
Tin	1.42	J	0.971	9.71	mg/kg	100		90-114		
Zirconium	0.816	U	0.816	4.85	mg/kg	104		80-120		
Batch number: 103495711002	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880									
Mercury	0.0028	U	0.0028	0.0979	mg/kg	98		88-123		
Batch number: 103505708003	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880									
Titanium	0.380	U	0.380	1.00	mg/kg	95		80-120		
Batch number: 10344113001A	Sample number(s): 6162868									
3b Cr VI by EPA 7199	5.0	U	5.0	250	ug/l	99		90-110		
Batch number: 10344196901A	Sample number(s): 6162870									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	99	96	90-110	4	20
Batch number: 10350196902A	Sample number(s): 6162868									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	100	100	90-110	0	20
Batch number: 10352352201A	Sample number(s): 6162855-6162858,6162860-6162865,6162867									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 10352352201B	Sample number(s): 6162871-6162880									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 10352658701A	Sample number(s): 6162868									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	90	91	85-115	1	20
Batch number: 10354354201B	Sample number(s): 6162855-6162858,6162860-6162861									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	97		85-115		
Batch number: 10355102202A	Sample number(s): 6162855-6162858,6162860-6162865,6162867									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	113		80-120		
Batch number: 10356243201A	Sample number(s): 6162855-6162858,6162860-6162865,6162867,6162871-6162880									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10356356201A	Sample number(s): 6162862-6162865,6162867,6162871-6162874									
7a Perchlorate EPA 314.0	14.6	J	9.0	30.0	ug/kg	97		85-115		
Batch number: 10357102201A	Sample number(s): 6162875-6162880									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 10361117101A	Sample number(s): 6162870									
21b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	103	108	90-110	4	20
Batch number: 10348039401A	Sample number(s): 6162855-6162858									
22a pH by 9045C						100		95-105		
Batch number: 10348039401B	Sample number(s): 6162860-6162864,6162867,6162871-6162874									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
22a pH by 9045C					100		95-105		
Batch number: 10348039402A	Sample number(s): 6162875-6162880								
22a pH by 9045C					100		95-105		
Batch number: 10348182101A	Sample number(s): 6162855-6162858,6162860								
Oxidation Reduction Potential					99		98-102		
Batch number: 10348182101B	Sample number(s): 6162861-6162864,6162867,6162871-6162874								
Oxidation Reduction Potential					99		98-102		
Batch number: 10348182102A	Sample number(s): 6162875-6162880								
Oxidation Reduction Potential					99		98-102		
Batch number: 10349020001A	Sample number(s): 6162868								
22b pH by 9040B					100		99-101		
Batch number: 10347162401B	Sample number(s): 6162871-6162874								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10364162401A	Sample number(s): 6162855-6162858,6162860-6162863								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10364162401B	Sample number(s): 6162864-6162867,6162875-6162880								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103481AA	Sample number(s): 6162855-6162858,6162860-6162864,6162875-6162880 UNSPK: P162812								
Acetone	187		15-210						
Benzene	108		55-143						
Bromobenzene	91		43-139						
Bromochloromethane	109		60-137						
Bromodichloromethane	103		53-136						
Bromoform	93		38-124						
Bromomethane	83		42-168						
2-Butanone	132		37-163						
n-Butylbenzene	80		30-146						
sec-Butylbenzene	86		33-157						
tert-Butylbenzene	88		41-152						
Carbon Tetrachloride	109		45-153						
Chlorobenzene	98		49-135						
Chloroethane	87		39-152						
2-Chloroethyl Vinyl Ether	95		32-139						
Chloroform	111		61-142						
Chloromethane	87		51-163						
2-Chlorotoluene	92		42-146						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorotoluene	90		39-145						
1,2-Dibromo-3-chloropropane	82		30-139						
Dibromochloromethane	99		51-128						
1,2-Dibromoethane	95		54-129						
Dibromomethane	103		57-130						
1,2-Dichlorobenzene	87		36-133						
1,3-Dichlorobenzene	83		34-134						
1,4-Dichlorobenzene	85		35-136						
Dichlorodifluoromethane	62		26-151						
1,1-Dichloroethane	108		63-142						
1,2-Dichloroethane	106		68-131						
1,1-Dichloroethene	109		61-149						
cis-1,2-Dichloroethene	106		60-136						
trans-1,2-Dichloroethene	108		59-142						
1,2-Dichloropropane	105		62-135						
1,3-Dichloropropane	100		58-129						
2,2-Dichloropropane	104		53-147						
1,1-Dichloropropene	105		54-145						
cis-1,3-Dichloropropene	95		51-131						
trans-1,3-Dichloropropene	92		49-129						
Ethylbenzene	100		44-141						
Freon 113	100		56-156						
Hexachlorobutadiene	57		10-155						
2-Hexanone	85		32-160						
Isopropylbenzene	95		38-144						
p-Isopropyltoluene	85		29-152						
Methyl Tertiary Butyl Ether	96		55-129						
4-Methyl-2-pentanone	73		46-139						
Methylene Chloride	147*		61-141						
n-Propylbenzene	94		39-157						
Styrene	97		35-134						
1,1,1,2-Tetrachloroethane	102		52-130						
1,1,2,2-Tetrachloroethane	91		40-152						
Tetrachloroethene	106		42-149						
Toluene	101		50-146						
1,2,3-Trichlorobenzene	60		10-140						
1,2,4-Trichlorobenzene	61		10-136						
1,1,1-Trichloroethane	95		64-142						
1,1,2-Trichloroethane	100		54-139						
Trichloroethene	105		53-144						
Trichlorofluoromethane	96		47-163						
1,2,3-Trichloropropane	93		45-154						
1,2,4-Trimethylbenzene	90		37-149						
1,3,5-Trimethylbenzene	92		38-150						
Vinyl Chloride	86		50-154						
m+p-Xylene	100		44-137						
o-Xylene	96		42-137						
Batch number: E103493AA	Sample number(s): 6162880 UNSPK: P163871								
1,4-Dioxane	104	95	70-130	9	30				
Batch number: 10348SLG026	Sample number(s): 6162855-6162858,6162860-6162866,6162871-6162880 UNSPK: 6162864								
Acenaphthene	92	94	75-115	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	95	96	49-126	1	30				
Aniline	67	70	14-114	4	30				
Anthracene	96	99	75-115	4	30				
Benzidine	44	48	35-141	9	30				
Benzo(a)anthracene	96	102	65-122	5	30				
Benzo(a)pyrene	106	107	57-126	1	30				
Benzo(b)fluoranthene	113	102	59-125	10	30				
Benzo(g,h,i)perylene	111	108	59-127	2	30				
Benzo(k)fluoranthene	101	114	56-132	12	30				
Benzoic acid	39	35	10-173	12	30				
Benzyl alcohol	88	88	55-123	1	30				
4-Bromophenyl-phenylether	98	101	67-129	3	30				
Butylbenzylphthalate	110	111	73-134	1	30				
Di-n-butylphthalate	97	102	67-123	5	30				
Carbazole	91	92	64-120	2	30				
4-Chloro-3-methylphenol	87	86	53-130	2	30				
4-Chloroaniline	45	43	23-95	4	30				
bis(2-Chloroethoxy)methane	88	90	54-117	2	30				
bis(2-Chloroethyl)ether	89	87	60-116	2	30				
bis(2-Chloroisopropyl)ether	59	59	55-142	0	30				
2-Chloronaphthalene	80	107	50-141	30	30				
2-Chlorophenol	97	94	73-121	2	30				
4-Chlorophenyl-phenylether	94	100	64-119	6	30				
Chrysene	98	99	62-128	1	30				
Dibenz(a,h)anthracene	108	111	65-125	3	30				
Dibenzofuran	94	97	71-112	3	30				
1,2-Dichlorobenzene	91	89	66-108	2	30				
1,3-Dichlorobenzene	88	87	63-109	0	30				
1,4-Dichlorobenzene	90	90	53-113	0	30				
3,3'-Dichlorobenzidine	75	77	25-123	3	30				
2,4-Dichlorophenol	91	92	78-117	1	30				
Diethylphthalate	91	94	66-118	4	30				
2,4-Dimethylphenol	91	90	56-130	1	30				
3,5-Dimethylphenol	107	107	70-130	0	30				
Dimethylphthalate	92	96	64-118	4	30				
4,6-Dinitro-2-methylphenol	77	71	10-148	9	30				
2,4-Dinitrophenol	51	46	20-143	10	30				
2,4-Dinitrotoluene	88	89	57-114	1	30				
2,6-Dinitrotoluene	91	93	69-123	2	30				
1,2-Diphenylhydrazine	93	96	71-129	3	30				
bis(2-Ethylhexyl)phthalate	110	113	63-122	3	30				
Fluoranthene	90	93	59-122	3	30				
Fluorene	92	94	60-125	3	30				
Hexachlorobenzene	100	103	61-111	3	30				
Hexachlorobutadiene	92	93	62-120	1	30				
Hexachlorocyclopentadiene	78	72	10-153	8	30				
Hexachloroethane	90	87	57-109	4	30				
Indeno(1,2,3-cd)pyrene	111	111	61-126	0	30				
Isophorone	83	81	51-118	3	30				
1-Methylnaphthalene	95	93	73-112	3	30				
2-Methylnaphthalene	89	88	76-114	0	30				
2-Methylphenol	89	87	47-142	3	30				
4-Methylphenol	83	81	55-126	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	92	92	72-116	0	30				
2-Nitroaniline	93	98	67-125	5	30				
3-Nitroaniline	88	89	59-122	1	30				
4-Nitroaniline	65	64	52-112	1	30				
Nitrobenzene	82	82	51-114	0	30				
2-Nitrophenol	93	91	74-115	3	30				
4-Nitrophenol	62	65	39-133	5	30				
N-Nitroso-di-n-propylamine	75	73	60-116	3	30				
N-Nitrosodimethylamine	81	76	47-116	6	30				
N-Nitrosodiphenylamine	102	105	86-145	3	30				
Di-n-octylphthalate	125	126	56-126	0	30				
Pentachlorophenol	73	80	17-149	9	30				
Phenanthrene	92	96	65-125	4	30				
Phenol	83	78	58-126	6	30				
Pyrene	104	106	51-151	2	30				
1,2,4-Trichlorobenzene	97	95	72-115	2	30				
2,4,5-Trichlorophenol	93	96	34-139	3	30				
2,4,6-Trichlorophenol	96	102	49-140	6	30				
Batch number: 10349SLF026	Sample number(s): 6162855-6162858,6162860-6162866,6162871-6162880 UNSPK: 6162864								
Acenaphthene	90	95	63-105	5	30				
Acenaphthylene	102	102	55-126	0	30				
Anthracene	103	101	46-136	2	30				
Benzo(a)anthracene	96	97	39-144	1	30				
Benzo(a)pyrene	96	96	34-156	0	30				
Benzo(b)fluoranthene	120	119	43-155	1	30				
Benzo(g,h,i)perylene	34	39	33-141	13	30				
Benzo(k)fluoranthene	109	112	42-144	3	30				
Butylbenzylphthalate	130	130	73-140	0	30				
Di-n-butylphthalate	122	109	78-160	11	30				
Chrysene	91	91	29-156	0	30				
Dibenz(a,h)anthracene	45	50	41-130	10	30				
Diethylphthalate	104	106	87-131	2	30				
Dimethylphthalate	105	111	74-118	6	30				
Bis(2-Ethylhexyl)phthalate	108	136	39-167	16	30				
Fluoranthene	117	102	26-166	12	30				
Fluorene	100	103	45-121	2	30				
Indeno(1,2,3-cd)pyrene	43	47	21-143	10	30				
1-Methylnaphthalene	98	98	72-123	0	30				
2-Methylnaphthalene	88	88	28-121	0	30				
Naphthalene	83	92	61-102	10	30				
N-Nitrosodimethylamine	92	109	48-113	17	30				
Di-n-octylphthalate	157	202*	40-192	25	30				
Phenanthrene	94	93	12-165	1	30				
Pyrene	91	96	15-153	5	30				
Batch number: 10350SLF026	Sample number(s): 6162855-6162858,6162860-6162866,6162875-6162880 UNSPK: 6162864								
N-Nitrosodimethylamine	91	93	70-130	2	30				
Batch number: 10340B34B	Sample number(s): 6162855-6162857,6162860 UNSPK: P156146								
9a TPH by EPA 8015B Gas C5-C12	82	72	39-118	19	30				
Batch number: 10350A20A	Sample number(s): 6162869 UNSPK: P162724								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
TPH-GRO S.CA water C5-C12	118		63-154						
Batch number: 103510022A	Sample number(s): 6162855-6162858,6162860-6162866,6162875-6162880 UNSPK: 6162864								
4-Amino-2,6-Dinitrotoluene	97	102	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	97	101	80-137	4	50				
1,3-Dinitrobenzene	98	102	38-166	4	50				
2,4-Dinitrotoluene	95	98	80-131	4	50				
2,6-Dinitrotoluene	100	103	80-127	3	50				
HMX	83	89	63-128	7	50				
Nitrobenzene	100	102	80-125	2	50				
Nitroglycerin	86	90	80-120	5	50				
2-Nitrotoluene	102	105	80-122	4	50				
3-Nitrotoluene	102	106	72-119	4	50				
4-Nitrotoluene	102	105	80-125	3	50				
PETN	95	102	80-121	6	50				
RDX	91	94	75-129	3	50				
Tetryl	112	114	55-174	2	50				
1,3,5-Trinitrobenzene	110	125	82-126	12	50				
2,4,6-Trinitrotoluene	99	102	82-130	4	50				
Batch number: 103480008A	Sample number(s): 6162855-6162858,6162860-6162866,6162875-6162880 UNSPK: 6162864								
17a Formaldehyde by 8315A	104	97	80-120	6	50				
Batch number: 103490014A	Sample number(s): 6162864-6162866,6162871-6162874 UNSPK: 6162864								
2,4-D	96	97	28-161	1	35				
Dalapon	82	75	12-86	9	50				
2,4-DB	90	119	20-170	28	50				
Dicamba	124*	136*	33-120	9	50				
Dinoseb	9	12	1-44	24	35				
2,4-DP (Dichlorprop)	120	124	55-141	3	50				
MCPA	95	123	31-184	26	50				
MCPP (Mecoprop)	58	109	16-174	44	50				
2,4,5-T	82	87	25-132	6	35				
2,4,5-TP	84	89	10-183	6	35				
Batch number: 103490017A	Sample number(s): 6162858,6162860-6162866 UNSPK: 6162864								
6a Perchlorate EPA 6850	103	107	80-120	4	20				
Batch number: 103490013A	Sample number(s): 6162855-6162858,6162860-6162863,6162865-6162866,6162871-6162875,6162877-6162880 UNSPK: P162864								
PCB-1016	74	92	29-146	22	50				
PCB-1260	81	84	39-149	4	50				
Batch number: 103500011A	Sample number(s): 6162864-6162866,6162871-6162874 UNSPK: 6162864								
Aldrin	74	71	16-126	4	50				
Alpha BHC	106	94	10-129	12	50				
Beta BHC	88	84	14-147	4	50				
Gamma BHC - Lindane	100	94	10-140	6	50				
p,p-DDD	91	90	16-163	2	50				
p,p-DDE	82	79	18-161	4	50				
p,p-DDT	110	106	10-176	4	50				
Delta BHC	88	81	23-140	7	50				
Dieldrin	73	69	19-154	5	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan I	79	79	16-137	0	50				
Endosulfan II	73	73	28-154	0	50				
Endosulfan Sulfate	113	98	21-160	14	50				
Endrin	84	79	11-149	6	50				
Endrin Aldehyde	74	65	10-148	14	35				
Endrin Ketone	81	79	22-165	2	50				
Heptachlor	90	86	13-126	5	50				
Heptachlor Epoxide	97	97	13-157	0	50				
Methoxychlor	104	101	32-147	3	50				
Batch number: 103540019A	Sample number(s): 6162864,6162876 UNSPK: 6162864								
PCB-1016	101	104	29-146	3	50				
PCB-1260	105	111	39-149	5	50				
Batch number: 103490010A	Sample number(s): 6162855-6162858,6162860-6162863,6162875-6162880 UNSPK: P162864								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	-121*	-2*	49-123	85*	20				
EFH (C21-C30)	-222 (2)	895 (2)	49-123	148*	20				
EFH (C30 - C40)	-644 (2)	1920 (2)	49-123	143*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 103560020A	Sample number(s): 6162864-6162866 UNSPK: 6162864								
EFH (C12-C14)	80	77	49-123	3	20				
EFH (C15-C20)	77	74	49-123	1	20				
EFH (C21-C30)	-37 (2)	-208 (2)	49-123	35*	20				
EFH (C30 - C40)	224 (2)	-351 (2)	49-123	45*	20				
EFH (C8-C11)	65	67	49-123	2	20				
Batch number: 103480001A	Sample number(s): 6162870 UNSPK: P162152								
Ethanol	-3600 (2)	-4000 (2)	69-125	2	20				
Isopropanol	-400 (2)	-400 (2)	75-125	0	20				
Methanol	-9200 (2)	-10000 (2)	61-131	2	20				
Batch number: 103480002A	Sample number(s): 6162855-6162858,6162860-6162866,6162875 UNSPK: 6162864								
Ethanol	79	79	24-143	0	20				
Isopropanol	76	75	75-125	0	20				
Methanol	92	90	45-136	2	20				
Batch number: 103480003A	Sample number(s): 6162876-6162880 UNSPK: 6162876								
Ethanol	89	102	24-143	13	20				
Isopropanol	88	91	75-125	4	20				
Methanol	90	115	45-136	25*	20				
Batch number: 103480004A	Sample number(s): 6162870 UNSPK: 6162870								
Diethylene glycol	100	100	83-130	0	20				
Ethylene glycol	85*	80*	89-125	6	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Propylene glycol	114	105	91-128	9	20				
Batch number: 103480018A	Sample number(s): 6162855-6162858,6162860-6162866,6162875 UNSPK: 6162864								
Diethylene glycol	83	87	59-109	4	20				
Ethylene glycol	80	71	63-107	12	20				
Propylene glycol	94	90	63-107	5	20				
Batch number: 103480019A	Sample number(s): 6162876-6162880 UNSPK: 6162876								
Diethylene glycol	18*	27*	59-109	40*	20				
Ethylene glycol	57*	62*	63-107	9	20				
Propylene glycol	50*	52*	63-107	3	20				
Batch number: 103500031A	Sample number(s): 6162855-6162858,6162860-6162866,6162875-6162880 UNSPK: 6162864								
m-Terphenyl	99	99	75-125	0	20				
o-Terphenyl	106	105	75-125	1	20				
p-Terphenyl	95	94	75-125	1	20				
Batch number: 103491026002A	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880 UNSPK: 6162864 BKG: 6162864								
Antimony	42*	21*	75-125	52*	20	0.128 J	0.0766 J	50* (1)	20
Arsenic	65*	88	75-125	6	20	5.48	3.97	32*	20
Beryllium	98	110	75-125	5	20	0.606	0.395	42* (1)	20
Cadmium	127*	149*	75-125	12	20	0.107	0.108	1 (1)	20
Chromium	128*	152*	75-125	5	20	22.1	16.9	26*	20
Cobalt	119	125	75-125	2	20	5.95	4.70	24*	20
Copper	101	113	75-125	4	20	10.1	7.62	28*	20
Lead	82	127*	75-125	13	20	6.59	5.14	25*	20
Nickel	113	129*	75-125	5	20	12.1	10.1	18	20
Silver	127*	139*	75-125	6	20	0.0353 J	0.0194 J	58* (1)	20
Thallium	121	144*	75-125	10	20	0.259	0.192	30* (1)	20
Vanadium	90	149*	75-125	11	20	38.1	28.5	29*	20
Zinc	-154 (2)	-45 (2)	75-125	16	20	79.4	52.8	40*	20
Batch number: 103491026002B	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880 UNSPK: 6162864 BKG: 6162864								
Selenium	87	135*	75-125	37*	20	0.174 J	0.147 J	17 (1)	20
Batch number: 103491026002C	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880 UNSPK: 6162864 BKG: 6162864								
Molybdenum	123	135*	75-125	5	20	1.14	0.952	18	20
Batch number: 103491026002D	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880 UNSPK: 6162864 BKG: 6162864								
Barium	-19 (2)	464 (2)	75-125	38*	20	100	76.9	26*	20
Batch number: 103495708002	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880 UNSPK: 6162864 BKG: 6162864								
Aluminum	735 (2)	1377 (2)	75-125	9	20	12,200	11,800	4	20
Boron	91	89	84-115	2	20	3.70 J	2.78 J	28* (1)	20
Calcium	-122 (2)	283 (2)	75-125	33*	20	4,520	4,720	4	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Iron	-1091 (2)	2293 (2)	75-125	19	20	16,900		17,600		4	20
Lithium	97	100	82-114	6	20	16.3		17.0		4	20
Magnesium	-53 (2)	288 (2)	75-125	17	20	3,750		3,960		6	20
Manganese	29 (2)	66 (2)	75-125	8	20	214		248		15	20
Phosphorus	40 (2)	101 (2)	75-125	13	20	408		460		12	20
Potassium	71*	120	75-125	14	20	2,630		2,640		0	20
Sodium	95	97	75-125	5	20	96.3	J	103		6 (1)	20
Strontium	94	95	75-115	3	20	25.3		24.6		3	20
Tin	94	92	80-110	2	20	1.98	J	1.89	J	5 (1)	20
Zirconium	101	98	75-125	1	20	2.39	J	2.68	J	11 (1)	20
Batch number: 103495711002	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880 UNSPK: 6162864 BKG: 6162864										
Mercury	97	94	65-135	3	20	0.0066	J	0.0107	J	48* (1)	20
Batch number: 103505708003	Sample number(s): 6162855-6162858,6162860-6162867,6162871-6162880 UNSPK: 6162864 BKG: 6162864										
Titanium	327 (2)	294 (2)	75-125	3	20	951		963		1	20
Batch number: 10344113001A	Sample number(s): 6162868 UNSPK: P160985 BKG: P160985										
3b Cr VI by EPA 7199	100		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 10352352201A	Sample number(s): 6162855-6162858,6162860-6162865,6162867 UNSPK: 6162864 BKG: 6162864										
11a Anions by 300.0 - Fluoride	99		80-120			1.7		1.3		28* (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			1.8		1.6		14 (1)	20
Batch number: 10352352201B	Sample number(s): 6162871-6162880 UNSPK: 6162871 BKG: 6162871										
11a Anions by 300.0 - Fluoride	68*		80-120			4.8		2.3		71* (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			1.7		1.5	J	13 (1)	20
Batch number: 10354354201B	Sample number(s): 6162855-6162858,6162860-6162861 UNSPK: P162831 BKG: P162831										
7a Perchlorate EPA 314.0	89		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 10355102202A	Sample number(s): 6162855-6162858,6162860-6162865,6162867 UNSPK: 6162864 BKG: 6162864										
21a Cyanide by 9012B	115		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 10356243201A	Sample number(s): 6162855-6162858,6162860-6162865,6162867,6162871-6162880 UNSPK: 6162864 BKG: 6162864										
3a Cr VI by EPA 7199	89		75-125			0.20	U	0.48	J	200* (1)	20
Batch number: 10356356201A	Sample number(s): 6162862-6162865,6162867,6162871-6162874 UNSPK: 6162864 BKG: 6162864										
7a Perchlorate EPA 314.0	101		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 10357102201A	Sample number(s): 6162875-6162880 UNSPK: P162827 BKG: P162827										
21a Cyanide by 9012B	105		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 10348039401A	Sample number(s): 6162855-6162858 BKG: P162827										
22a pH by 9045C						8.13		8.11		0	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10348039401B	Sample number(s): 6162860-6162864,6162867,6162871-6162874					BKG: 6162864			
22a pH by 9045C						8.46	8.50	0	1
Batch number: 10348039402A	Sample number(s): 6162875-6162880					BKG: 6162875			
22a pH by 9045C						7.26	7.26	0	1
Batch number: 10348182101A	Sample number(s): 6162855-6162858,6162860					BKG: P162827			
Oxidation Reduction Potential						396	396	0	6
Batch number: 10348182101B	Sample number(s): 6162861-6162864,6162867,6162871-6162874					BKG: 6162864			
Oxidation Reduction Potential						453	454	0	6
Batch number: 10348182102A	Sample number(s): 6162875-6162880					BKG: 6162875			
Oxidation Reduction Potential						473	473	0	6
Batch number: 10349020001A	Sample number(s): 6162868					BKG: P164396			
22b pH by 9040B						7.1	7.1	0	1
Batch number: 10347162401B	Sample number(s): 6162871-6162874					BKG: 6162874			
28a Moisture Content by 160.3						9.6	9.6	1	20
Batch number: 10364162401A	Sample number(s): 6162855-6162858,6162860-6162863					BKG: 6162862			
28a Moisture Content by 160.3						6.4	7.0	8	20
Batch number: 10364162401B	Sample number(s): 6162864-6162867,6162875-6162880					BKG: 6162864			
28a Moisture Content by 160.3						8.5	8.6	1	20
28a Moisture Content by 160.3						8.5	8.6	1	20
28a Moisture Content by 160.3						8.5	8.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6162855	103	100	97	90
6162856	103	95	97	90
6162857	104	97	99	89
6162858	107	106	95	93
6162860	107	106	94	92
6162861	105	101	95	92
6162862	106	99	98	91
6162863	105	101	96	90
6162864	106	102	97	89
6162875	104	99	97	91
6162876	105	98	97	91
6162877	106	101	96	92

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

6162878	105	100	98	91
6162879	106	104	96	92
6162880	105	100	97	91
Blank	104	106	95	92
LCS	100	102	99	98
LCSD	100	103	99	98
MS	101	102	99	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103491AA

	Toluene-d8
6162859	102
6162869	103
Blank	101
LCS	101
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103492AA

	Toluene-d8
6162855	99
6162856	100
6162857	100
6162858	100
6162860	100
6162861	99
6162862	100
6162863	100
6162864	100
6162875	100
6162876	99
6162877	99
6162878	99
6162879	100
Blank	101
LCS	101
LCSD	101
Limits:	70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103493AA

	Toluene-d8
6162880	100
Blank	99
LCS	99
LCSD	101
MS	101
MSD	100

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103462AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6162859	100	99	104	99
6162869	99	91	103	99
Blank	99	96	104	100
LCS	99	99	105	101
LCSD	99	99	105	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19b NDMA by 1625C
Batch number: 10347WAA026

	N-Nitrosodimethylamine-d6
6162870	122
Blank	93
LCS	90
LCSD	161*
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10347WAE026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162868	47	30	92	85	86	83
Blank	39	25	82	67	71	77
LCS	53	35	92	86	87	87
LCSD	58	39	92	89	92	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10347WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162868	99	86	92
Blank	88	87	92
LCS	96	88	90
LCSD	95	88	91
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10348SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162855	82	91	82	74	87	91
6162856	79	86	82	71	87	89
6162857	82	89	80	75	89	96
6162858	77	87	79	71	83	91
6162860	75	84	78	71	84	92

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

6162861	78	86	77	71	88	94
6162862	78	86	77	69	84	97
6162863	81	88	80	75	88	92
6162864	84	91	89	75	89	91
6162865	86	96	86	80	94	97
6162866	84	93	90	79	96	96
6162871	81	88	79	75	89	97
6162872	80	88	79	73	91	94
6162873	79	86	75	72	83	79
6162874	82	90	90	73	89	84
6162875	78	87	88	72	84	80
6162876	71	77	91	69	81	78
6162877	78	83	88	75	87	83
6162878	83	89	90	74	84	82
6162879	82	91	81	74	86	83
6162880	81	88	86	71	85	82
Blank	77	85	91	76	89	87
LCS	86	94	93	77	91	89
MS	86	96	86	80	94	97
MSD	84	93	90	79	96	96
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10349SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162855	92	83	93
6162856	99	85	91
6162857	97	84	85
6162858	94	84	98
6162860	102	89	98
6162861	100	86	96
6162862	99	88	96
6162863	92	82	105
6162864	94	85	92
6162865	99	82	104
6162866	95	83	94
6162871	100	89	99
6162872	97	87	95
6162873	98	86	98
6162874	101	86	95
6162875	98	88	99
6162876	97	90	99
6162877	99	90	100
6162878	77	68	73
6162879	101	88	96
6162880	96	89	99
Blank	92	87	89
LCS	93	86	89
MS	99	82	104
MSD	95	83	94
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10350SLF026

	N-Nitrosodimethylamine-

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

	d6
6162855	99
6162856	83
6162857	95
6162858	109
6162860	101
6162861	103
6162862	98
6162863	94
6162864	102
6162865	94
6162866	99
6162875	92
6162876	84
6162877	87
6162878	82
6162879	82
6162880	82
Blank	110
LCS	102
MS	94
MSD	99
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10340B34B

	Trifluorotoluene-F
6162855	91
6162856	85
6162857	90
6162860	90
Blank	98
LCS	93
LCSD	99
MS	94
MSD	85
Limits:	61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10348A34A

	Trifluorotoluene-F
6162858	85
6162861	81
6162862	88
6162863	82
6162864	86
6162875	87
6162876	79
6162877	85
6162878	81
6162879	84
6162880	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

Blank 94
LCS 96
LCSD 90

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10350A20A

	Trifluorotoluene-F
6162869	84
Blank	83
LCS	115
LCSD	111
MS	112

Limits: 63-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10351B53B

	Trifluorotoluene-F
6162859	75
Blank	73
LCS	85
LCSD	83

Limits: 63-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10355B20A

	Trifluorotoluene-F
6162870	84
Blank	83
LCS	113
LCSD	110

Limits: 63-135

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 103440024A

	Butyraldehyde
6162870	98
Blank	91
LCS	104
LCSD	106

Limits: 45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103470015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162868	115	104
Blank	116	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

LCS	116	112
LCSD	120	102
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 103470016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162868	110	105
Blank	102	82
LCS	106	91
LCSD	101	89
Limits:	52-141	40-144

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103480008A

	Butyraldehyde
6162855	106
6162856	97
6162857	95
6162858	104
6162860	101
6162861	103
6162862	103
6162863	101
6162864	105
6162865	101
6162866	98
6162875	91
6162876	100
6162877	99
6162878	98
6162879	102
6162880	102
Blank	106
LCS	101
MS	101
MSD	98
Limits:	64-126

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103480009A

	2,4-Dichlorophenylacetic acid
6162868	71
Blank	61
LCS	88
LCSD	87
Limits:	35-144

Analysis Name: 20b Energetics by 8330A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

Batch number: 103480011A

	2-Nitro-m-xylene
6162870	63
Blank	76
LCS	91
LCSD	81
Limits:	50-134

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103490003A

	2,4-Dichlorophenylacetic acid
6162870	91
Blank	86
LCS	96
LCSD	112
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103490013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162855	89	93
6162856	84	80
6162857	75	71
6162858	79	78
6162860	91	94
6162861	78	71
6162862	76	71
6162863	80	72
6162865	83	78
6162866	88	81
6162871	74	76
6162872	82	79
6162873	88	78
6162874	71	63
6162875	70	68
6162877	84	80
6162878	82	79
6162879	86	82
6162880	77	72
Blank	107	83
LCS	86	73
LCSD	98	89
MS	83	78
MSD	88	81
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103490014A

	2,4-Dichlorophenylacetic acid

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

6162864	109
6162865	93
6162866	107
6162871	88
6162872	134
6162873	124
6162874	143
Blank	110
LCS	100
MS	93
MSD	107
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 103500011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162864	82	86
6162865	83	80
6162866	77	87
6162871	80	83
6162872	86	86
6162873	84	78
6162874	93	106
Blank	91	113
LCS	88	108
MS	83	80
MSD	77	87
Limits:	50-130	20-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103510022A

	2-Nitro-m-xylene
6162855	109
6162856	110
6162857	109
6162858	113
6162860	110
6162861	106
6162862	109
6162863	108
6162864	106
6162865	102
6162866	101
6162875	105
6162876	109
6162877	110
6162878	111
6162879	99
6162880	109
Blank	113
LCS	115
LCSD	116
MS	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

MSD 101

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103540019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162864	116	109
6162876	98	106
Blank	99	105
LCS	110	115
LCSD	102	106
MS	114	104
MSD	116	107
Limits:	53-139	45-120

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 103460001A

	Chlorobenzene	Orthoterphenyl
6162870	98	104
Blank	106	107
LCS	104	109
LCSD	101	108
Limits:	28-152	52-131

Analysis Name: 26b Terphenyls by 8015B
Batch number: 103470004A

	n-Triacontane-d62
6162870	92
Blank	93
LCS	83
LCSD	92
Limits:	50-150

Analysis Name: 25b Alcohols by 8015B
Batch number: 103480001A

	Acetone
6162870	100
Blank	107
LCS	110
MS	548*
MSD	562*
Limits:	54-147

Analysis Name: 25a Alcohols by 8015B
Batch number: 103480002A

	Acetone
6162855	105

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

6162856	103
6162857	92
6162858	89
6162860	95
6162861	97
6162862	91
6162863	86
6162864	95
6162865	95
6162866	95
6162875	91
Blank	131
LCS	109
MS	95
MSD	95

Limits: 42-138

Analysis Name: 25a Alcohols by 8015B
Batch number: 103480003A

Acetone

6162876	86
6162877	93
6162878	88
6162879	83
6162880	88
Blank	88
LCS	92
MS	89
MSD	87

Limits: 42-138

Analysis Name: 27b Glycols by 8015B
Batch number: 103480004A

Tetramethylene glycol

6162870	91
Blank	96
LCS	103
MS	117
MSD	90

Limits: 10-164

Analysis Name: 27a Glycols by 8015B
Batch number: 103480018A

Tetramethylene glycol

6162855	87
6162856	91
6162857	94
6162858	85
6162860	83
6162861	89
6162862	77

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

6162863	85
6162864	74
6162865	100
6162866	85
6162875	77
Blank	94
LCS	100
MS	100
MSD	85
Limits:	50-119

Analysis Name: 27a Glycols by 8015B
Batch number: 103480019A

	Tetramethylene glycol
6162876	31*
6162877	84
6162878	84
6162879	86
6162880	83
Blank	95
LCS	96
MS	59
MSD	50
Limits:	50-119

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103490010A

	Chlorobenzene	Orthoterphenyl
6162855	77	87
6162856	69	85
6162857	63	90
6162858	73	88
6162860	67	85
6162861	70	89
6162862	67	85
6162863	74	84
6162875	73	88
6162876	65	77
6162877	85	93
6162878	69	86
6162879	67	84
6162880	81	93
Blank	87	94
LCS	88	99
MS	2*	32*
MSD	90	91
Limits:	37-125	47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103500031A

	n-Triacontane-d62

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225035
Reported: 01/21/11 at 03:50 PM

Surrogate Quality Control

6162855	192*
6162856	197*
6162857	89
6162858	98
6162860	195*
6162861	106
6162862	93
6162863	105
6162864	99
6162865	99
6162866	106
6162875	94
6162876	98
6162877	102
6162878	101
6162879	105
6162880	95
Blank	103
LCS	99
MS	99
MSD	106
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103560020A

	Chlorobenzene	Orthoterphenyl
6162864	74	84
6162865	77	90
6162866	77	85
Blank	71	76
LCS	76	83
MS	77	90
MSD	77	85
Limits:	37-125	47-145

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acct#13013 Qp# 1225035 Sample# 6162855-80

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-015-SA5C-SB-4.0-5.0	12/8/10	1433	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-015-SA5C-SB-4.0-5.0	12/8/10	1433	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-015-SA5C-SB-4.0-5.0	12/8/10	1433	soil	none	3 x 4 oz. jars					X															X	X	
SL-015-SA5C-SB-9.0-10.0	12/8/10	1440	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-015-SA5C-SB-9.0-10.0	12/8/10	1440	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-015-SA5C-SB-9.0-10.0	12/8/10	1440	soil	none	3 x 4 oz. jars					X															X	X	
SL-020-SA5C-SB-4.0-5.0	12/8/10	0955	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-020-SA5C-SB-4.0-5.0	12/8/10	0955	soil	none	3 x 4 oz. jars					X															X	X	
SL-020-SA5C-SB-7.5-8.5	12/8/10	1000	soil	none	3 x 4 oz. jars					X															X	X	
SL-015-SA5C-SB-4.5	12/8/10	1423	soil	none	5 Encore samplers	X	X		X																		
SL-015-SA5C-SB-9.5	12/8/10	1435	soil	none	5 Encore samplers	X	X		X																		
SL-020-SA5C-SB-4.5	12/8/10	0950	soil	none	5 Encore samplers	X	X		X																		
SL-020-SA5C-SB-8.0	12/8/10	0958	soil	none	5 Encore samplers	X	X		X																		
SL-021-SA5C-SB-4.5	12/8/10	1150	soil	none	5 Encore samplers	X	X		X																		
SL-021-SA5C-SB-9.5	12/8/10	1158	soil	none	5 Encore samplers	X	X		X																		
TB-120810	12/8/10	1630	water	HCl	4 - 40 ml vials	X	X		X																		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.08.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514318211	

Laboratory: Lancaster Laboratories, Inc.

Cooler 1

acct#13013 Cp# 1225035 Sample# 6162855-80

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-020-SA5C-SB-4.0-5.0	12/8/10	0955	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-020-SA5C-SB-7.5-8.5	12/8/10	1000	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-020-SA5C-SB-7.5-8.5	12/8/10	1000	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-016-SA5C-SB-4.0-5.0	12/8/10	1610	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-016-SA5C-SB-4.0-5.0	12/8/10	1610	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-016-SA5C-SB-9.0-10.0	12/8/10	1623	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-016-SA5C-SB-9.0-10.0	12/8/10	1623	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-021-SA5C-SB-4.0-5.0	12/8/10	1155	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-021-SA5C-SB-4.0-5.0	12/8/10	1155	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-021-SA5C-SB-9.0-10.0	12/8/10	1200	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-021-SA5C-SB-9.0-10.0	12/8/10	1200	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
~~SL-018~~ 17-SA5B-SS-0.0-0.5MS	12/8/10	1530	soil	none	2 x 16 oz. jar					X	X	X	X	X	X	X	X	X	X										Matrix spike Pesticides & Herbicide
~~SL-018~~ 17-SA5B-SS-0.0-0.5MS	12/8/10	1530	soil	none	2 x 16 oz. jar															X	X	X	X	X	X	X	X	X	Matrix spike Were added per PB on 12/12/10. NM 1/5/11
Sample ID was updated per PB on 12/9/10. NM 12/14/10																													

Relinquished by: (Signature)	Date/Time		Received for Laboratory by: (Signature)	Date/Time	
	12.08.10	1630		12/10/10	915
Received by: (Signature)	Date/Time		Airbill No.		
			00732992		
			Tracking Number 869514317259		

Laboratory: Lancaster Laboratories, Inc.

Cooler 4

acct# 13013 Gp# 1225035 sample# 6162855-80

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-01-SA5B-120910	12/9/10	1210	water	none	7-1 liter amber			X						X	X			X	X										
EB-01-SA5B-120910	12/9/10	1210	water	none	1-500 ml poly							X	X			X									X				
EB-01-SA5B-120910	12/9/10	1210	water	HNO3	1-500 ml poly						X																		
SL-017-SA5C-SB-4.5	12/9/10	1016	soil	none	5 Encore samplers	X	X		X																				
SL-017-SA5C-SB-9.5	12/9/10	1028	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5C-SB-4.5	12/9/10	0949	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5C-SB-9.5	12/9/10	1000	soil	none	5 Encore samplers	X	X		X																				
SL-012-SA5C-SB-4.5	12/9/10	1300	soil	none	5 Encore samplers	X	X		X																				
SL-012-SA5C-SB-9.5	12/9/10	1310	soil	none	5 Encore samplers	X	X		X																				
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	5 Encore samplers	X	X		X																				
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	5 Encore samplers	X	X		X																				
SL-018-SA5B-SS-0.0-0.5	12/9/10	0845	soil	none	5 Encore samplers	X	X		X																				
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	5 Encore samplers	X	X		X																				
SL-013-SA5C-SB-9.5	12/9/10	1348	soil	none	5 Encore samplers	X	X		X																				
SL-013-SA5C-SB-4.5	12/9/10	1340	soil	none	5 Encore samplers	X	X		X																				
TB-120910	12/9/10	1630	soil	none	5 Encore samplers	X	X		X																				

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317774	

Laboratory: Lancaster Laboratories, Inc.

Cooler 4

869514317774

acct# 13013 Cp# 1225035 Sample# 61628555-80

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB14-SA5C-120810	12/8/10		water	none	3 - 1 Liter amber glass																	X	X						
EB14-SA5C-120810	12/8/10		water	HCl	2 - 1 Liter amber glass					X																	X			
EB14-SA5C-120810	12/8/10		water	NaOH	1 - 500 mL poly bottle																			X					
EB14-SA5C-120810	12/8/10		water	none	1 - 250 ml clear glass																X								
EB14-SA5C-120810	12/8/10		water	HCl	4 - 40 ml vials				X																			X	
EB14-SA5C-120810	12/8/10		water	none	4 - 40 ml vials															X							X		
SL-029-SA5B-SS-0.0-0.5	12/8/10	1427	soil	none	1 x 16 oz. jar						X	X	X	X	X	X		X	X										
SL-034-SA5B-SS-0.0-0.5	12/8/10	1325	soil	none	1 x 16 oz. jar						X	X	X	X	X	X		X	X										
SL-035-SA5B-SS-0.0-0.5	12/8/10	1400	soil	none	1 x 16 oz. jar						X	X	X	X	X	X		X	X										
SL-036-SA5B-SS-0.0-0.5	12/8/10	1345	soil	none	1 x 16 oz. jar						X	X	X	X	X	X		X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.07.10 1630		12/10 915
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514318222	

Laboratory: Lancaster Laboratories, Inc.

Cooler 2

acct#13013 Cp# 1225035 Sample# 6162855-80

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SUBSURFACE SAMPLES

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-012-SA5C-SB-4.0-5.0	12/9/10	1305	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	~~X~~	~~X~~										
SL-012-SA5C-SB-4.0-5.0	12/9/10	1305	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-012-SA5C-SB-4.0-5.0	12/9/10	1305	soil	none	3 x 4 oz. jars					X															X	X	
SL-012-SA5C-SB-9.0-10.0	12/8/10	1314	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	~~X~~	~~X~~										
SL-012-SA5C-SB-4.0-5.0	12/8/10	1314	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-012-SA5C-SB-4.0-5.0	12/8/10	1314	soil	none	3 x 4 oz. jars					X															X	X	
SL-013-SA5C-SB-4.0-5.0	12/9/10	1344	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	~~X~~	~~X~~										
SL-013-SA5C-SB-4.0-5.0	12/9/10	1344	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-013-SA5C-SB-4.0-5.0	12/9/10	1344	soil	none	3 x 4 oz. jars					X															X	X	
SL-013-SA5C-SB-9.0-10.0	12/9/10	1352	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	~~X~~	~~X~~										
SL-013-SA5C-SB-9.0-10.0	12/9/10	1352	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-013-SA5C-SB-9.0-10.0	12/9/10	1352	soil	none	3 x 4 oz. jars					X															X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.09.10 1630		12/10/10 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514317237		Cooler 6

869514317237

acct#13013 Cap#1225035 sample# 6162855-80

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SUBSURFACE SAMPLES

Samplers: *(Signature)* Pamela Tatar

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-016-SA5C-SB-4.0-5.0	12/8/10	1610	soil	none	3 x 4 oz. jars					X															X	X	Perchlorate was
SL-016-SA5C-SB-9.0-10.0	12/8/10	1623	soil	none	3 x 4 oz. jars					X															X	X	removed from
SL-021-SA5C-SB-4.0-5.0	12/8/10	1155	soil	none	3 x 4 oz. jars					X															X	X	SL-022-SA5C-4.0-5.0,
SL-021-SA5C-SB-9.0-10.0	12/8/10	1200	soil	none	3 x 4 oz. jars					X															X	X	SL-022-SA5C-9.0-10.0,
SL-022-SA5C-SB-4.0-5.0	12/9/10	0956	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	~~X~~	~~X~~										SL-012-SA5C-4.0-5.0,
SL-022-SA5C-SB-4.0-5.0	12/9/10	0956	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			NLM ~~Error~~ SL-012-SA5C-9.0-10.0,
SL-022-SA5C-SB-4.0-5.0	12/9/10	0956	soil	none	3 x 4 oz. jars					X															X	X	SL-013-SA5C-SB-4.0-5.0,
SL-022-SA5C-SB-9.0-10.0	12/9/10	1002	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	~~X~~	~~X~~										and SL-013-SA5C-SB-9.0-10.0
SL-022-SA5C-SB-9.0-10.0	12/9/10	1002	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			per PB on 12/12/10.
SL-022-SA5C-SB-9.0-10.0	12/9/10	1002	soil	none	3 x 4 oz. jars					X															X	X	NLM 1/6/11

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.09.10 1630	Mary M Lu	12/10/10 915	Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Airbill No.** 00732992 Tracking Number 869514317248		Cooler 3

acct#13013 ap# 1225035 sample# 6162855-80

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-018-SA5B-SS-0.0-0.5	12/8/10	1530	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5B-SS-0.0-0.5	12/8/10	1545	soil	none	5 Encore samplers	X	X		X																				
SL-016-SA5C-SB-4.5	12/8/10	1605	soil	none	5 Encore samplers	X	X		X																				
SL-016-SA5C-SB-9.5	12/8/10	1615	soil	none	5 Encore samplers	X	X		X																				
Sample ID was updated per PB on 12/8/10. NM 12/14/10																													

PB 12/8/10

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.08.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.: 00732992 Tracking Number 869514318211	

Laboratory: Lancaster Laboratories, Inc.

Cooler 1

869514318211

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/10/2010
Group Number: 1225036
SDG: DX017
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA5C-SB-4.0-5.0 Soil	6162881
SL-015-SA5C-SB-9.0-10.0 Soil	6162882
SL-020-SA5C-SB-4.0-5.0 Soil	6162883
SL-020-SA5C-SB-7.5-8.5 Soil	6162884
SL-016-SA5C-SB-4.0-5.0 Soil	6162885
SL-016-SA5C-SB-9.0-10.0 Soil	6162886
SL-021-SA5C-SB-4.0-5.0 Soil	6162887
SL-021-SA5C-SB-9.0-10.0 Soil	6162888
SL-017-SA5B-SS-0.0-0.5 Soil	6162889
SL-017-SA5B-SS-0.0-0.5MS Soil	6162890
SL-017-SA5B-SS-0.0-0.5MSD Soil	6162891
EB-01-SA5B-120910 Water	6162892
SL-029-SA5B-SS-0.0-0.5 Soil	6162893
SL-034-SA5B-SS-0.0-0.5 Soil	6162894
SL-035-SA5B-SS-0.0-0.5 Soil	6162895
SL-036-SA5B-SS-0.0-0.5 Soil	6162896
SL-022-SA5C-SB-4.0-5.0 Soil	6162897
SL-022-SA5C-SB-9.0-10.0 Soil	6162898
SL-012-SA5C-SB-4.0-5.0 Soil	6162899
SL-012-SA5C-SB-9.0-10.0 Soil	6162900
SL-013-SA5C-SB-4.0-5.0 Soil	6162901
SL-013-SA5C-SB-9.0-10.0 Soil	6162902

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

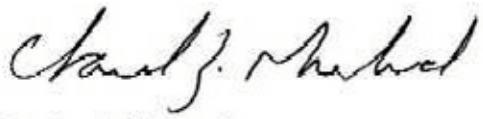

Charles J. Neslund
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-015-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162881
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162881
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX017-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0186	U	0.0186	1.10	1
11031	12378-PeCDD	40321-76-4	0.0714	JB	0.0296	5.52	1
11031	123478-HxCDD	39227-28-6	0.0748	JQ	0.0254	5.52	1
11031	123678-HxCDD	57653-85-7	0.261	JB	0.0261	5.52	1
11031	123789-HxCDD	19408-74-3	0.330	JB	0.0270	5.52	1
11031	1234678-HpCDD	35822-46-9	4.95	JB	0.0326	5.52	1
11031	OCDD	3268-87-9	43.2	B	0.0360	11.0	1
11031	2378-TCDF	51207-31-9	0.0448	J	0.0230	1.10	1
11031	12378-PeCDF	57117-41-6	0.299	JBQ	0.0130	5.52	1
11031	23478-PeCDF	57117-31-4	0.219	JB	0.0128	5.52	1
11031	123478-HxCDF	70648-26-9	0.194	JB	0.0199	5.52	1
11031	123678-HxCDF	57117-44-9	0.182	JB	0.0186	5.52	1
11031	123789-HxCDF	72918-21-9	0.252	JBQ	0.0229	5.52	1
11031	234678-HxCDF	60851-34-5	0.278	JB	0.0188	5.52	1
11031	1234678-HpCDF	67562-39-4	1.66	JB	0.0170	5.52	1
11031	1234789-HpCDF	55673-89-7	0.169	JBQ	0.0230	5.52	1
11031	OCDF	39001-02-0	2.10	JB	0.0286	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	66	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162881
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-4.0-5.0

LLI Sample # SW 6162881
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:33

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1701 SDG#: DX017-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/28/2010 16:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

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Analysis Report

Sample Description: **SL-015-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162882
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1702 SDG#: DX017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162882
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1702 SDG#: DX017-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0183	U	0.0183	1.09	1
11031	12378-PeCDD	40321-76-4	0.0791	JBQ	0.0249	5.44	1
11031	123478-HxCDD	39227-28-6	0.0637	JQ	0.0249	5.44	1
11031	123678-HxCDD	57653-85-7	0.377	JB	0.0258	5.44	1
11031	123789-HxCDD	19408-74-3	0.225	JBQ	0.0256	5.44	1
11031	1234678-HpCDD	35822-46-9	9.27	B	0.0375	5.44	1
11031	OCDD	3268-87-9	91.3	B	0.0406	10.9	1
11031	2378-TCDF	51207-31-9	0.0356	J	0.0236	1.09	1
11031	12378-PeCDF	57117-41-6	0.135	JB	0.0125	5.44	1
11031	23478-PeCDF	57117-31-4	0.128	JB	0.0121	5.44	1
11031	123478-HxCDF	70648-26-9	0.170	JBQ	0.0188	5.44	1
11031	123678-HxCDF	57117-44-9	0.146	JBQ	0.0166	5.44	1
11031	123789-HxCDF	72918-21-9	0.143	JB	0.0214	5.44	1
11031	234678-HxCDF	60851-34-5	0.213	JB	0.0180	5.44	1
11031	1234678-HpCDF	67562-39-4	1.45	JB	0.0149	5.44	1
11031	1234789-HpCDF	55673-89-7	0.210	JBQ	0.0209	5.44	1
11031	OCDF	39001-02-0	2.45	JB	0.0268	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162882
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1702 SDG#: DX017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5C-SB-9.0-10.0

LLI Sample # SW 6162882
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:40

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1702 SDG#: DX017-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/28/2010 17:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

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Analysis Report

Sample Description: **SL-020-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162883
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1703 SDG#: DX017-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162883
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1703 SDG#: DX017-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0221	U	0.0221	1.11	1
11031	12378-PeCDD	40321-76-4	0.0484	JB	0.0248	5.56	1
11031	123478-HxCDD	39227-28-6	0.0562	J	0.0217	5.56	1
11031	123678-HxCDD	57653-85-7	0.142	JB	0.0228	5.56	1
11031	123789-HxCDD	19408-74-3	0.175	JB	0.0218	5.56	1
11031	1234678-HpCDD	35822-46-9	2.09	JB	0.0291	5.56	1
11031	OCDD	3268-87-9	16.9	B	0.0337	11.1	1
11031	2378-TCDF	51207-31-9	0.0283	J	0.0221	1.11	1
11031	12378-PeCDF	57117-41-6	0.0810	JBQ	0.0132	5.56	1
11031	23478-PeCDF	57117-31-4	0.155	JB	0.0127	5.56	1
11031	123478-HxCDF	70648-26-9	0.180	JBQ	0.0214	5.56	1
11031	123678-HxCDF	57117-44-9	0.137	JBQ	0.0186	5.56	1
11031	123789-HxCDF	72918-21-9	0.154	JB	0.0247	5.56	1
11031	234678-HxCDF	60851-34-5	0.285	JB	0.0206	5.56	1
11031	1234678-HpCDF	67562-39-4	1.09	JB	0.0162	5.56	1
11031	1234789-HpCDF	55673-89-7	0.138	JB	0.0239	5.56	1
11031	OCDF	39001-02-0	0.987	JB	0.0321	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162883
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1703 SDG#: DX017-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-4.0-5.0

LLI Sample # SW 6162883
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 09:55

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1703 SDG#: DX017-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/28/2010 18:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162884
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1704 SDG#: DX017-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162884
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1704 SDG#: DX017-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0311 JBQ	0.0203	1.10	1
11031	12378-PeCDD	40321-76-4	0.0363 JBQ	0.0243	5.48	1
11031	123478-HxCDD	39227-28-6	0.0151 U	0.0151	5.48	1
11031	123678-HxCDD	57653-85-7	0.0235 JB	0.0157	5.48	1
11031	123789-HxCDD	19408-74-3	0.0369 JB	0.0154	5.48	1
11031	1234678-HpCDD	35822-46-9	0.285 JBQ	0.0221	5.48	1
11031	OCDD	3268-87-9	0.698 JB	0.0286	11.0	1
11031	2378-TCDF	51207-31-9	0.0146 U	0.0146	1.10	1
11031	12378-PeCDF	57117-41-6	0.0230 JBQ	0.00953	5.48	1
11031	23478-PeCDF	57117-31-4	0.0802 JB	0.00953	5.48	1
11031	123478-HxCDF	70648-26-9	0.0813 JB	0.0160	5.48	1
11031	123678-HxCDF	57117-44-9	0.0488 JB	0.0136	5.48	1
11031	123789-HxCDF	72918-21-9	0.0176 U	0.0176	5.48	1
11031	234678-HxCDF	60851-34-5	0.114 JB	0.0156	5.48	1
11031	1234678-HpCDF	67562-39-4	0.396 JB	0.0110	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0581 JBQ	0.0175	5.48	1
11031	OCDF	39001-02-0	0.265 JB	0.0257	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	55	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	65	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162884
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1704 SDG#: DX017-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA5C-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5C-SB-7.5-8.5

LLI Sample # SW 6162884
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 10:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1704 SDG#: DX017-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/28/2010 18:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162885
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1705 SDG#: DX017-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162885
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1705 SDG#: DX017-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0322	JB	0.0194	1.10	1
11031	12378-PeCDD	40321-76-4	0.126	JBQ	0.0237	5.48	1
11031	123478-HxCDD	39227-28-6	0.100	JQ	0.0240	5.48	1
11031	123678-HxCDD	57653-85-7	0.340	JB	0.0246	5.48	1
11031	123789-HxCDD	19408-74-3	0.254	JB	0.0251	5.48	1
11031	1234678-HpCDD	35822-46-9	7.23	B	0.0349	5.48	1
11031	OCDD	3268-87-9	100	B	0.0406	11.0	1
11031	2378-TCDF	51207-31-9	0.0445	JQ	0.0219	1.10	1
11031	12378-PeCDF	57117-41-6	0.176	JBQ	0.0126	5.48	1
11031	23478-PeCDF	57117-31-4	0.175	JB	0.0121	5.48	1
11031	123478-HxCDF	70648-26-9	0.159	JB	0.0190	5.48	1
11031	123678-HxCDF	57117-44-9	0.157	JB	0.0178	5.48	1
11031	123789-HxCDF	72918-21-9	0.173	JBQ	0.0219	5.48	1
11031	234678-HxCDF	60851-34-5	0.219	JB	0.0183	5.48	1
11031	1234678-HpCDF	67562-39-4	1.16	JB	0.0143	5.48	1
11031	1234789-HpCDF	55673-89-7	0.142	JBQ	0.0180	5.48	1
11031	OCDF	39001-02-0	2.07	JB	0.0239	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162885
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1705 SDG#: DX017-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-4.0-5.0

LLI Sample # SW 6162885
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:10

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1705 SDG#: DX017-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/28/2010 19:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

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Analysis Report

Sample Description: **SL-016-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162886
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1706 SDG#: DX017-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162886
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1706 SDG#: DX017-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0242 JBQ	0.0162	1.10	1
11031	12378-PeCDD	40321-76-4	0.0799 JBQ	0.0249	5.50	1
11031	123478-HxCDD	39227-28-6	0.0468 JQ	0.0216	5.50	1
11031	123678-HxCDD	57653-85-7	0.217 JBQ	0.0223	5.50	1
11031	123789-HxCDD	19408-74-3	0.200 JBQ	0.0223	5.50	1
11031	1234678-HpCDD	35822-46-9	4.64 JB	0.0334	5.50	1
11031	OCDD	3268-87-9	75.9 B	0.0391	11.0	1
11031	2378-TCDF	51207-31-9	0.0266 JQ	0.0211	1.10	1
11031	12378-PeCDF	57117-41-6	0.134 JB	0.0118	5.50	1
11031	23478-PeCDF	57117-31-4	0.132 JB	0.0114	5.50	1
11031	123478-HxCDF	70648-26-9	0.137 JB	0.0178	5.50	1
11031	123678-HxCDF	57117-44-9	0.124 JB	0.0162	5.50	1
11031	123789-HxCDF	72918-21-9	0.151 JBQ	0.0200	5.50	1
11031	234678-HxCDF	60851-34-5	0.192 JBQ	0.0171	5.50	1
11031	1234678-HpCDF	67562-39-4	0.890 JB	0.0111	5.50	1
11031	1234789-HpCDF	55673-89-7	0.111 JB	0.0165	5.50	1
11031	OCDF	39001-02-0	1.27 JB	0.0283	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162886
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1706 SDG#: DX017-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5C-SB-9.0-10.0

LLI Sample # SW 6162886
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 16:23

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1706 SDG#: DX017-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/28/2010 20:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162887
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1707 SDG#: DX017-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162887
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1707 SDG#: DX017-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0275	U	0.0275	1.07	1
11031	12378-PeCDD	40321-76-4	0.0416	U	0.0416	5.34	1
11031	123478-HxCDD	39227-28-6	0.136	J	0.0517	5.34	1
11031	123678-HxCDD	57653-85-7	0.491	JB	0.0537	5.34	1
11031	123789-HxCDD	19408-74-3	0.352	JBQ	0.0513	5.34	1
11031	1234678-HpCDD	35822-46-9	10.7	B	0.0644	5.34	1
11031	OCDD	3268-87-9	111	B	0.0698	10.7	1
11031	2378-TCDF	51207-31-9	0.0685	JQ	0.0379	1.07	1
11031	12378-PeCDF	57117-41-6	0.185	JB	0.0221	5.34	1
11031	23478-PeCDF	57117-31-4	0.381	JBQ	0.0216	5.34	1
11031	123478-HxCDF	70648-26-9	0.247	JB	0.0365	5.34	1
11031	123678-HxCDF	57117-44-9	0.246	JB	0.0324	5.34	1
11031	123789-HxCDF	72918-21-9	0.293	JBQ	0.0416	5.34	1
11031	234678-HxCDF	60851-34-5	0.302	JB	0.0357	5.34	1
11031	1234678-HpCDF	67562-39-4	1.90	JB	0.0299	5.34	1
11031	1234789-HpCDF	55673-89-7	0.331	JB	0.0416	5.34	1
11031	OCDF	39001-02-0	3.49	JB	0.0471	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162887
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1707 SDG#: DX017-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-4.0-5.0

LLI Sample # SW 6162887
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 11:55

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1707 SDG#: DX017-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 00:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162888
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1708 SDG#: DX017-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162888
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1708 SDG#: DX017-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0205	U	0.0205	1.09	1
11031	12378-PeCDD	40321-76-4	0.157	JBQ	0.0366	5.46	1
11031	123478-HxCDD	39227-28-6	0.103	JQ	0.0374	5.46	1
11031	123678-HxCDD	57653-85-7	0.543	JBQ	0.0396	5.46	1
11031	123789-HxCDD	19408-74-3	0.304	JBQ	0.0384	5.46	1
11031	1234678-HpCDD	35822-46-9	15.2	B	0.0514	5.46	1
11031	OCDD	3268-87-9	123	B	0.0480	10.9	1
11031	2378-TCDF	51207-31-9	0.0267	U	0.0267	1.09	1
11031	12378-PeCDF	57117-41-6	0.167	JBQ	0.0179	5.46	1
11031	23478-PeCDF	57117-31-4	0.136	JB	0.0164	5.46	1
11031	123478-HxCDF	70648-26-9	0.262	JBQ	0.0301	5.46	1
11031	123678-HxCDF	57117-44-9	0.187	JB	0.0260	5.46	1
11031	123789-HxCDF	72918-21-9	0.251	JB	0.0355	5.46	1
11031	234678-HxCDF	60851-34-5	0.205	JBQ	0.0286	5.46	1
11031	1234678-HpCDF	67562-39-4	1.73	JB	0.0201	5.46	1
11031	1234789-HpCDF	55673-89-7	0.235	JB	0.0341	5.46	1
11031	OCDF	39001-02-0	2.98	JB	0.0425	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162888
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1708 SDG#: DX017-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5C-SB-9.0-10.0

LLI Sample # SW 6162888
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 12:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1708 SDG#: DX017-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 01:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401A	12/31/2010 05:52	William C Schwebel	1

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162889
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162889
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	JBQ	0.0216	1.09	1
11031	12378-PeCDD	40321-76-4	0.221	JBQ	0.0326	5.46	1
11031	123478-HxCDD	39227-28-6	0.127	J	0.0397	5.46	1
11031	123678-HxCDD	57653-85-7	0.566	JBQ	0.0408	5.46	1
11031	123789-HxCDD	19408-74-3	0.580	JB	0.0396	5.46	1
11031	1234678-HpCDD	35822-46-9	13.7	B	0.0569	5.46	1
11031	OCDD	3268-87-9	176	B	0.0553	10.9	1
11031	2378-TCDF	51207-31-9	0.0325	JQ	0.0267	1.09	1
11031	12378-PeCDF	57117-41-6	0.149	JB	0.0163	5.46	1
11031	23478-PeCDF	57117-31-4	0.170	JB	0.0146	5.46	1
11031	123478-HxCDF	70648-26-9	0.151	JBQ	0.0251	5.46	1
11031	123678-HxCDF	57117-44-9	0.161	JB	0.0225	5.46	1
11031	123789-HxCDF	72918-21-9	0.180	JB	0.0278	5.46	1
11031	234678-HxCDF	60851-34-5	0.195	JB	0.0243	5.46	1
11031	1234678-HpCDF	67562-39-4	1.82	JB	0.0214	5.46	1
11031	1234789-HpCDF	55673-89-7	0.204	JBQ	0.0316	5.46	1
11031	OCDF	39001-02-0	3.90	JB	0.0343	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162889
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162889
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 02:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162890
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162890
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.8	B	0.0352	1.09	1
11031	12378-PeCDD	40321-76-4	111	B	0.0514	5.46	1
11031	123478-HxCDD	39227-28-6	116		0.0578	5.46	1
11031	123678-HxCDD	57653-85-7	115	B	0.0580	5.46	1
11031	123789-HxCDD	19408-74-3	116	B	0.0562	5.46	1
11031	1234678-HpCDD	35822-46-9	145	B	0.0940	5.46	1
11031	OCDD	3268-87-9	871	B	0.111	10.9	1
11031	2378-TCDF	51207-31-9	23.0		0.0408	1.09	1
11031	12378-PeCDF	57117-41-6	115	B	0.0252	5.46	1
11031	23478-PeCDF	57117-31-4	113	B	0.0232	5.46	1
11031	123478-HxCDF	70648-26-9	110	B	0.0556	5.46	1
11031	123678-HxCDF	57117-44-9	109	B	0.0495	5.46	1
11031	123789-HxCDF	72918-21-9	110	B	0.0617	5.46	1
11031	234678-HxCDF	60851-34-5	112	B	0.0549	5.46	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0478	5.46	1
11031	1234789-HpCDF	55673-89-7	110	B	0.0611	5.46	1
11031	OCDF	39001-02-0	232	B	0.0612	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	63	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162890
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162890
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 03:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162891
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162891
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.9	B	0.0313	1.09	1
11031	12378-PeCDD	40321-76-4	112	B	0.0467	5.46	1
11031	123478-HxCDD	39227-28-6	113		0.0400	5.46	1
11031	123678-HxCDD	57653-85-7	112	B	0.0410	5.46	1
11031	123789-HxCDD	19408-74-3	115	B	0.0416	5.46	1
11031	1234678-HpCDD	35822-46-9	126	B	0.0749	5.46	1
11031	OCDD	3268-87-9	411	B	0.0685	10.9	1
11031	2378-TCDF	51207-31-9	23.0		0.0349	1.09	1
11031	12378-PeCDF	57117-41-6	113	B	0.0225	5.46	1
11031	23478-PeCDF	57117-31-4	112	B	0.0213	5.46	1
11031	123478-HxCDF	70648-26-9	109	B	0.0431	5.46	1
11031	123678-HxCDF	57117-44-9	110	B	0.0402	5.46	1
11031	123789-HxCDF	72918-21-9	110	B	0.0498	5.46	1
11031	234678-HxCDF	60851-34-5	108	B	0.0408	5.46	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0507	5.46	1
11031	1234789-HpCDF	55673-89-7	109	B	0.0643	5.46	1
11031	OCDF	39001-02-0	223	B	0.0458	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162891
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-017-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SS-0.0-0.5

LLI Sample # SW 6162891
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 15:30

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1709 SDG#: DX017-09MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 04:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-01-SA5B-120910 Water**
SSFL Area IV Collocated Soil Sampling
EB-01-SA5B-120910

LLI Sample # WW 6162892
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:10

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1710 SDG#: DX017-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.478	JQ	0.237	2.07	1
10915	12378-PeCDD	40321-76-4	0.366	JBQ	0.218	10.4	1
10915	123478-HxCDD	39227-28-6	0.249	JBQ	0.169	10.4	1
10915	123678-HxCDD	57653-85-7	0.325	JBQ	0.166	10.4	1
10915	123789-HxCDD	19408-74-3	0.271	JB	0.171	10.4	1
10915	1234678-HpCDD	35822-46-9	2.49	JB	0.271	10.4	1
10915	OCDD	3268-87-9	2.77	JB	0.295	20.7	1
10915	2378-TCDF	51207-31-9	0.160	JBQ	0.149	2.07	1
10915	12378-PeCDF	57117-41-6	0.271	JBQ	0.132	10.4	1
10915	23478-PeCDF	57117-31-4	0.665	JBQ	0.118	10.4	1
10915	123478-HxCDF	70648-26-9	0.739	JBQ	0.170	10.4	1
10915	123678-HxCDF	57117-44-9	0.722	JB	0.167	10.4	1
10915	123789-HxCDF	72918-21-9	0.502	JB	0.179	10.4	1
10915	234678-HxCDF	60851-34-5	1.12	JB	0.162	10.4	1
10915	1234678-HpCDF	67562-39-4	4.77	JB	0.153	10.4	1
10915	1234789-HpCDF	55673-89-7	0.658	JB	0.192	10.4	1
10915	OCDF	39001-02-0	2.78	JB	0.248	20.7	1

The method blank and OPR associated with this sample had recoveries of some labeled compounds that were outside method limits. The sample was re-extracted outside the client specified holding time on an extraction batch with compliant recoveries in the method blank and OPR. Comparable sample results were observed between the two extractions.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	32	25 - 164
13C12-12378-PeCDD	47	25 - 181
13C12-123478-HxCDD	46	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	45	28 - 130
13C12-1234678-HpCDD	43	23 - 140
13C12-OCDD	35	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	53	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	49	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	46	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	52	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*

U *Undetected*

J *Estimated concentration between Estimated Detection Limit and Minimum Level*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB-01-SA5B-120910 Water
SSFL Area IV Collocated Soil Sampling
EB-01-SA5B-120910

LLI Sample # WW 6162892
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 12:10

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1710 SDG#: DX017-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10349001	12/21/2010 18:27	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10349001	12/15/2010 06:40	Ginelle L Haines	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11018003	01/19/2011 06:00	Ginelle L Haines	1

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Analysis Report

Sample Description: **SL-029-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162893
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1711 SDG#: DX017-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-029-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162893
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1711 SDG#: DX017-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0508 JBQ	0.0253	1.09	1
11031	12378-PeCDD	40321-76-4	0.248 JBQ	0.0408	5.47	1
11031	123478-HxCDD	39227-28-6	0.327 JQ	0.0345	5.47	1
11031	123678-HxCDD	57653-85-7	0.832 JB	0.0360	5.47	1
11031	123789-HxCDD	19408-74-3	0.961 JBQ	0.0335	5.47	1
11031	1234678-HpCDD	35822-46-9	21.4 B	0.0636	5.47	1
11031	OCDD	3268-87-9	242 B	0.0616	10.9	1
11031	2378-TCDF	51207-31-9	0.0335 J	0.0280	1.09	1
11031	12378-PeCDF	57117-41-6	0.136 JBQ	0.0188	5.47	1
11031	23478-PeCDF	57117-31-4	0.163 JBQ	0.0183	5.47	1
11031	123478-HxCDF	70648-26-9	0.221 JB	0.0312	5.47	1
11031	123678-HxCDF	57117-44-9	0.310 JB	0.0263	5.47	1
11031	123789-HxCDF	72918-21-9	0.223 JB	0.0372	5.47	1
11031	234678-HxCDF	60851-34-5	0.336 JBQ	0.0309	5.47	1
11031	1234678-HpCDF	67562-39-4	3.15 JB	0.0241	5.47	1
11031	1234789-HpCDF	55673-89-7	0.372 JB	0.0443	5.47	1
11031	OCDF	39001-02-0	7.60 JB	0.0508	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162893
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1711 SDG#: DX017-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SS-0.0-0.5

LLI Sample # SW 6162893
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:27

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1711 SDG#: DX017-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 05:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	10347162401B	12/14/2010 05:05	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162894
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1712 SDG#: DX017-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162894
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1712 SDG#: DX017-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0432	JBQ	0.0326	1.09	1
11031	12378-PeCDD	40321-76-4	0.323	JB	0.0508	5.46	1
11031	123478-HxCDD	39227-28-6	0.253	JQ	0.0405	5.46	1
11031	123678-HxCDD	57653-85-7	0.874	JB	0.0417	5.46	1
11031	123789-HxCDD	19408-74-3	0.684	JBQ	0.0436	5.46	1
11031	1234678-HpCDD	35822-46-9	20.8	B	0.0709	5.46	1
11031	OCDD	3268-87-9	244	B	0.0752	10.9	1
11031	2378-TCDF	51207-31-9	0.0978	J	0.0366	1.09	1
11031	12378-PeCDF	57117-41-6	0.119	JBQ	0.0195	5.46	1
11031	23478-PeCDF	57117-31-4	0.123	JBQ	0.0190	5.46	1
11031	123478-HxCDF	70648-26-9	0.218	JBQ	0.0323	5.46	1
11031	123678-HxCDF	57117-44-9	0.238	JB	0.0290	5.46	1
11031	123789-HxCDF	72918-21-9	0.189	JB	0.0403	5.46	1
11031	234678-HxCDF	60851-34-5	0.253	JB	0.0313	5.46	1
11031	1234678-HpCDF	67562-39-4	2.80	JB	0.0219	5.46	1
11031	1234789-HpCDF	55673-89-7	0.296	JBQ	0.0326	5.46	1
11031	OCDF	39001-02-0	6.41	JB	0.0435	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162894
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1712 SDG#: DX017-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SS-0.0-0.5

LLI Sample # SW 6162894
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:25

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1712 SDG#: DX017-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 06:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	10347162401B	12/14/2010 05:05	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162895
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1713 SDG#: DX017-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-035-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162895
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1713 SDG#: DX017-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0462	U	0.0462	1.11	1
11031	12378-PeCDD	40321-76-4	0.158	JBQ	0.0715	5.54	1
11031	123478-HxCDD	39227-28-6	0.144	JQ	0.0523	5.54	1
11031	123678-HxCDD	57653-85-7	0.351	JB	0.0552	5.54	1
11031	123789-HxCDD	19408-74-3	0.226	JBQ	0.0541	5.54	1
11031	1234678-HpCDD	35822-46-9	7.97	B	0.0717	5.54	1
11031	OCDD	3268-87-9	89.7	B	0.0741	11.1	1
11031	2378-TCDF	51207-31-9	0.0532	JQ	0.0364	1.11	1
11031	12378-PeCDF	57117-41-6	0.110	JBQ	0.0243	5.54	1
11031	23478-PeCDF	57117-31-4	0.210	JBQ	0.0242	5.54	1
11031	123478-HxCDF	70648-26-9	0.134	JBQ	0.0360	5.54	1
11031	123678-HxCDF	57117-44-9	0.0990	JB	0.0306	5.54	1
11031	123789-HxCDF	72918-21-9	0.124	JB	0.0424	5.54	1
11031	234678-HxCDF	60851-34-5	0.145	JBQ	0.0335	5.54	1
11031	1234678-HpCDF	67562-39-4	1.29	JB	0.0326	5.54	1
11031	1234789-HpCDF	55673-89-7	0.201	JBQ	0.0545	5.54	1
11031	OCDF	39001-02-0	2.91	JB	0.0678	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	39	25 - 164
13C12-12378-PeCDD	43	25 - 181
13C12-123478-HxCDD	43	32 - 141
13C12-123678-HxCDD	44	28 - 130
13C12-123789-HxCDD	44	28 - 130
13C12-1234678-HpCDD	45	23 - 140
13C12-OCDD	43	17 - 157
13C12-2378-TCDF	44	24 - 169
13C12-12378-PeCDF	51	24 - 185
13C12-23478-PeCDF	47	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	42	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	43	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162895
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1713 SDG#: DX017-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SS-0.0-0.5

LLI Sample # SW 6162895
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 14:00

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1713 SDG#: DX017-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 07:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	10347162401B	12/14/2010 05:05	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162896
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1714 SDG#: DX017-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162896
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1714 SDG#: DX017-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0545	JBQ	0.0210	1.11	1
11031	12378-PeCDD	40321-76-4	0.291	JBQ	0.0412	5.53	1
11031	123478-HxCDD	39227-28-6	0.287	J	0.0361	5.53	1
11031	123678-HxCDD	57653-85-7	0.793	JB	0.0368	5.53	1
11031	123789-HxCDD	19408-74-3	0.651	JB	0.0343	5.53	1
11031	1234678-HpCDD	35822-46-9	19.0	B	0.0631	5.53	1
11031	OCDD	3268-87-9	244	B	0.0614	11.1	1
11031	2378-TCDF	51207-31-9	0.0659	JQ	0.0282	1.11	1
11031	12378-PeCDF	57117-41-6	0.154	JB	0.0152	5.53	1
11031	23478-PeCDF	57117-31-4	0.185	JBQ	0.0147	5.53	1
11031	123478-HxCDF	70648-26-9	0.194	JBQ	0.0260	5.53	1
11031	123678-HxCDF	57117-44-9	0.197	JBQ	0.0228	5.53	1
11031	123789-HxCDF	72918-21-9	0.137	JBQ	0.0275	5.53	1
11031	234678-HxCDF	60851-34-5	0.228	JB	0.0244	5.53	1
11031	1234678-HpCDF	67562-39-4	2.21	JB	0.0207	5.53	1
11031	1234789-HpCDF	55673-89-7	0.221	JBQ	0.0272	5.53	1
11031	OCDF	39001-02-0	5.23	JB	0.0301	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162896
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1714 SDG#: DX017-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SS-0.0-0.5

LLI Sample # SW 6162896
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/08/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1714 SDG#: DX017-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/29/2010 08:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	10347162401B	12/14/2010 05:05	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162897
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1715 SDG#: DX017-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162897
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1715 SDG#: DX017-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0143 JBQ	0.00867	1.10	1
11031	12378-PeCDD	40321-76-4	0.0525 JBQ	0.0128	5.49	1
11031	123478-HxCDD	39227-28-6	0.0371 JQ	0.0135	5.49	1
11031	123678-HxCDD	57653-85-7	0.103 JB	0.0137	5.49	1
11031	123789-HxCDD	19408-74-3	0.131 JBQ	0.0132	5.49	1
11031	1234678-HpCDD	35822-46-9	0.340 JB	0.0157	5.49	1
11031	OCDD	3268-87-9	1.95 JB	0.0166	11.0	1
11031	2378-TCDF	51207-31-9	0.0303 JQ	0.0108	1.10	1
11031	12378-PeCDF	57117-41-6	0.0712 JB	0.00757	5.49	1
11031	23478-PeCDF	57117-31-4	0.117 JBQ	0.00582	5.49	1
11031	123478-HxCDF	70648-26-9	0.0984 JB	0.0104	5.49	1
11031	123678-HxCDF	57117-44-9	0.0784 JB	0.0171	5.49	1
11031	123789-HxCDF	72918-21-9	0.114 JB	0.0120	5.49	1
11031	234678-HxCDF	60851-34-5	0.0971 JBQ	0.00966	5.49	1
11031	1234678-HpCDF	67562-39-4	0.318 JB	0.00911	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0732 JBQ	0.0130	5.49	1
11031	OCDF	39001-02-0	0.281 JB	0.0131	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	53	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162897
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1715 SDG#: DX017-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-4.0-5.0

LLI Sample # SW 6162897
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 09:56

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1715 SDG#: DX017-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/31/2010 01:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162898
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1716 SDG#: DX017-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162898
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1716 SDG#: DX017-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0162 JBQ	0.00792	1.15	1
11031	12378-PeCDD	40321-76-4	0.0187 JBQ	0.00930	5.74	1
11031	123478-HxCDD	39227-28-6	0.0179 JQ	0.00850	5.74	1
11031	123678-HxCDD	57653-85-7	0.0356 JB	0.00896	5.74	1
11031	123789-HxCDD	19408-74-3	0.0297 JBQ	0.00896	5.74	1
11031	1234678-HpCDD	35822-46-9	0.192 JB	0.0116	5.74	1
11031	OCDD	3268-87-9	0.687 JB	0.0140	11.5	1
11031	2378-TCDF	51207-31-9	0.0221 JQ	0.00608	1.15	1
11031	12378-PeCDF	57117-41-6	0.0359 JBQ	0.00459	5.74	1
11031	23478-PeCDF	57117-31-4	0.0762 JB	0.00390	5.74	1
11031	123478-HxCDF	70648-26-9	0.0618 JBQ	0.00677	5.74	1
11031	123678-HxCDF	57117-44-9	0.0529 JBQ	0.00643	5.74	1
11031	123789-HxCDF	72918-21-9	0.0352 JBQ	0.00735	5.74	1
11031	234678-HxCDF	60851-34-5	0.0815 JB	0.00631	5.74	1
11031	1234678-HpCDF	67562-39-4	0.313 JB	0.00574	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0473 JB	0.00792	5.74	1
11031	OCDF	39001-02-0	0.252 JB	0.0104	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162898
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1716 SDG#: DX017-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-022-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5C-SB-9.0-10.0

LLI Sample # SW 6162898
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:02

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1716 SDG#: DX017-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/31/2010 02:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

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Analysis Report

Sample Description: **SL-012-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162899
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:05

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1717 SDG#: DX017-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162899
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:05

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1717 SDG#: DX017-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0617	JBQ	0.00967	1.11	1
11031	12378-PeCDD	40321-76-4	0.136	JBQ	0.0141	5.56	1
11031	123478-HxCDD	39227-28-6	0.0935	J	0.0118	5.56	1
11031	123678-HxCDD	57653-85-7	0.324	JB	0.0121	5.56	1
11031	123789-HxCDD	19408-74-3	0.344	JB	0.0122	5.56	1
11031	1234678-HpCDD	35822-46-9	7.33	B	0.0212	5.56	1
11031	OCDD	3268-87-9	93.7	B	0.0199	11.1	1
11031	2378-TCDF	51207-31-9	0.0793	JQ	0.0109	1.11	1
11031	12378-PeCDF	57117-41-6	0.168	JBQ	0.00744	5.56	1
11031	23478-PeCDF	57117-31-4	0.198	JB	0.00611	5.56	1
11031	123478-HxCDF	70648-26-9	0.107	JBQ	0.00933	5.56	1
11031	123678-HxCDF	57117-44-9	0.147	JB	0.00911	5.56	1
11031	123789-HxCDF	72918-21-9	0.159	JBQ	0.0103	5.56	1
11031	234678-HxCDF	60851-34-5	0.172	JB	0.00878	5.56	1
11031	1234678-HpCDF	67562-39-4	1.25	JB	0.00733	5.56	1
11031	1234789-HpCDF	55673-89-7	0.100	JB	0.0103	5.56	1
11031	OCDF	39001-02-0	2.35	JB	0.0117	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162899
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:05

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1717 SDG#: DX017-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-012-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-4.0-5.0

LLI Sample # SW 6162899
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:05

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1717 SDG#: DX017-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/31/2010 03:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

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Analysis Report

Sample Description: **SL-012-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162900
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1718 SDG#: DX017-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	18.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162900
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1718 SDG#: DX017-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0149 JB	0.0121	1.22	1
11031	12378-PeCDD	40321-76-4	0.0399 JBQ	0.0167	6.11	1
11031	123478-HxCDD	39227-28-6	0.0187 JQ	0.0136	6.11	1
11031	123678-HxCDD	57653-85-7	0.0557 JBQ	0.0142	6.11	1
11031	123789-HxCDD	19408-74-3	0.0796 JB	0.0143	6.11	1
11031	1234678-HpCDD	35822-46-9	1.28 JB	0.0191	6.11	1
11031	OCDD	3268-87-9	12.9 B	0.0213	12.2	1
11031	2378-TCDF	51207-31-9	0.0211 JQ	0.0117	1.22	1
11031	12378-PeCDF	57117-41-6	0.0310 JBQ	0.00770	6.11	1
11031	23478-PeCDF	57117-31-4	0.0823 JBQ	0.00575	6.11	1
11031	123478-HxCDF	70648-26-9	0.0765 JB	0.0101	6.11	1
11031	123678-HxCDF	57117-44-9	0.0741 JB	0.0116	6.11	1
11031	123789-HxCDF	72918-21-9	0.0729 JBQ	0.0119	6.11	1
11031	234678-HxCDF	60851-34-5	0.106 JB	0.00978	6.11	1
11031	1234678-HpCDF	67562-39-4	0.479 JB	0.00954	6.11	1
11031	1234789-HpCDF	55673-89-7	0.0514 JBQ	0.0131	6.11	1
11031	OCDF	39001-02-0	0.541 JB	0.0164	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	46	25 - 164
13C12-12378-PeCDD	57	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	55	28 - 130
13C12-1234678-HpCDD	54	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	49	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	56	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162900
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1718 SDG#: DX017-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5C-SB-9.0-10.0

LLI Sample # SW 6162900
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:14

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1718 SDG#: DX017-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/31/2010 04:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162901
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1719 SDG#: DX017-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162901
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1719 SDG#: DX017-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0120	U	0.0120	1.10	1
11031	12378-PeCDD	40321-76-4	0.0628	JB	0.0193	5.48	1
11031	123478-HxCDD	39227-28-6	0.0741	JQ	0.0189	5.48	1
11031	123678-HxCDD	57653-85-7	0.333	JBQ	0.0193	5.48	1
11031	123789-HxCDD	19408-74-3	0.231	JB	0.0185	5.48	1
11031	1234678-HpCDD	35822-46-9	9.16	B	0.0363	5.48	1
11031	OCDD	3268-87-9	127	B	0.0389	11.0	1
11031	2378-TCDF	51207-31-9	0.0367	J	0.0141	1.10	1
11031	12378-PeCDF	57117-41-6	0.0686	JBQ	0.0104	5.48	1
11031	23478-PeCDF	57117-31-4	0.135	JB	0.00735	5.48	1
11031	123478-HxCDF	70648-26-9	0.102	JBQ	0.0132	5.48	1
11031	123678-HxCDF	57117-44-9	0.0794	JBQ	0.0224	5.48	1
11031	123789-HxCDF	72918-21-9	0.120	JB	0.0164	5.48	1
11031	234678-HxCDF	60851-34-5	0.131	JBQ	0.0133	5.48	1
11031	1234678-HpCDF	67562-39-4	1.14	JB	0.0155	5.48	1
11031	1234789-HpCDF	55673-89-7	0.106	JB	0.0221	5.48	1
11031	OCDF	39001-02-0	2.92	JB	0.0262	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	57	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162901
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1719 SDG#: DX017-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-4.0-5.0

LLI Sample # SW 6162901
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:44

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1719 SDG#: DX017-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/31/2010 05:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162902
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1720 SDG#: DX017-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162902
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1720 SDG#: DX017-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0205	U	0.0205	1.10	1
11031	12378-PeCDD	40321-76-4	0.0249	U	0.0249	5.48	1
11031	123478-HxCDD	39227-28-6	0.0652	JQ	0.0223	5.48	1
11031	123678-HxCDD	57653-85-7	0.270	JB	0.0221	5.48	1
11031	123789-HxCDD	19408-74-3	0.299	JB	0.0235	5.48	1
11031	1234678-HpCDD	35822-46-9	4.43	JB	0.0311	5.48	1
11031	OCDD	3268-87-9	64.2	B	0.0452	11.0	1
11031	2378-TCDF	51207-31-9	0.0204	U	0.0204	1.10	1
11031	12378-PeCDF	57117-41-6	0.0663	JBQ	0.0103	5.48	1
11031	23478-PeCDF	57117-31-4	0.0794	JB	0.00954	5.48	1
11031	123478-HxCDF	70648-26-9	0.0605	JBQ	0.0173	5.48	1
11031	123678-HxCDF	57117-44-9	0.129	JB	0.0155	5.48	1
11031	123789-HxCDF	72918-21-9	0.117	JBQ	0.0200	5.48	1
11031	234678-HxCDF	60851-34-5	0.0968	JBQ	0.0160	5.48	1
11031	1234678-HpCDF	67562-39-4	0.541	JBQ	0.0137	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0783	JBQ	0.0192	5.48	1
11031	OCDF	39001-02-0	1.07	JB	0.0289	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-013-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162902
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1720 SDG#: DX017-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5C-SB-9.0-10.0

LLI Sample # SW 6162902
LLI Group # 1225036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 13:52

Submitted: 12/10/2010 09:15
Reported: 01/28/2011 16:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1720 SDG#: DX017-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10356002	12/31/2010 06:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10356002	12/22/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162401B	12/31/2010 05:52	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225036
Reported: 01/28/11 at 04:59 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10347162401B	Sample number(s): 6162893-6162896								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10364162401A	Sample number(s): 6162881-6162888								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10364162401B	Sample number(s): 6162889-6162891,6162897-6162902								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10349001	Sample number(s): 6162892								
2378-TCDD	0.748 U	0.748	2.00	pg/l	105		67-158		
12378-PeCDD	1.56 J	0.597	10.0	pg/l	115		70-142		
123478-HxCDD	1.17 J	0.417	10.0	pg/l	124		70-164		
123678-HxCDD	0.874 J	0.439	10.0	pg/l	119		76-134		
123789-HxCDD	1.40 J	0.428	10.0	pg/l	120		64-162		
1234678-HpCDD	3.15 J	0.580	10.0	pg/l	125		70-140		
OCDD	6.75 J	0.712	20.0	pg/l	134		78-144		
2378-TCDF	0.414 J	0.376	2.00	pg/l	98		75-158		
12378-PeCDF	1.22 J	0.366	10.0	pg/l	111		80-134		
23478-PeCDF	1.70 J	0.326	10.0	pg/l	109		68-160		
123478-HxCDF	1.35 J	0.343	10.0	pg/l	119		72-134		
123678-HxCDF	1.31 J	0.343	10.0	pg/l	122		84-130		
123789-HxCDF	1.86 J	0.379	10.0	pg/l	118		78-130		
234678-HxCDF	1.72 J	0.329	10.0	pg/l	115		70-156		
1234678-HpCDF	5.79 J	0.346	10.0	pg/l	125*		82-122		
1234789-HpCDF	2.97 J	0.451	10.0	pg/l	129		78-138		
OCDF	3.65 J	0.750	20.0	pg/l	133		63-170		
Batch number: 10356002	Sample number(s): 6162881-6162891,6162893-6162902								
2378-TCDD	0.0474 J	0.0344	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0795 J	0.0450	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0374 U	0.0374	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0718 J	0.0384	5.00	ng/kg	101		76-134		
123789-HxCDD	0.116 J	0.0378	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.222 J	0.0532	5.00	ng/kg	102		70-140		
OCDD	0.397 J	0.0556	10.0	ng/kg	100		78-144		
2378-TCDF	0.0362 U	0.0362	1.00	ng/kg	104		75-158		
12378-PeCDF	0.111 J	0.0193	5.00	ng/kg	103		80-134		
23478-PeCDF	0.156 J	0.0222	5.00	ng/kg	100		68-160		
123478-HxCDF	0.228 J	0.0430	5.00	ng/kg	98		72-134		
123678-HxCDF	0.137 J	0.0326	5.00	ng/kg	98		84-130		
123789-HxCDF	0.279 J	0.0528	5.00	ng/kg	98		78-130		
234678-HxCDF	0.279 J	0.0370	5.00	ng/kg	98		70-156		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225036
Reported: 01/28/11 at 04:59 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.598	J	0.0272	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.177	J	0.0542	5.00	ng/kg	97		78-138		
OCDF	0.559	J	0.0723	10.0	ng/kg	99		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10347162401B	Sample number(s): 6162893-6162896					BKG: P162874			
28a Moisture Content by 160.3						9.6	9.6	1	20
Batch number: 10364162401A	Sample number(s): 6162881-6162888					BKG: P162862			
28a Moisture Content by 160.3						6.4	7.0	8	20
Batch number: 10364162401B	Sample number(s): 6162889-6162891,6162897-6162902					BKG: P162864			
28a Moisture Content by 160.3						8.5	8.6	1	20
Batch number: 10356002	Sample number(s): 6162881-6162891,6162893-6162902 UNSPK: 6162889								
2378-TCDD	100	100	67-158	0	25				
12378-PeCDD	102	102	70-142	1	25				
123478-HxCDD	106	104	70-164	2	25				
123678-HxCDD	104	102	76-134	2	25				
123789-HxCDD	105	105	64-162	0	25				
1234678-HpCDD	120	102	70-140	14	25				
OCDD	318*	107	78-144	72*	25				
2378-TCDF	105	105	75-158	0	25				
12378-PeCDF	105	103	80-134	2	25				
23478-PeCDF	103	103	68-160	1	25				
123478-HxCDF	101	100	72-134	1	25				
123678-HxCDF	99	100	84-130	1	25				
123789-HxCDF	100	100	78-130	0	25				
234678-HxCDF	102	99	70-156	3	25				
1234678-HpCDF	101	99	82-122	1	25				
1234789-HpCDF	101	99	78-138	1	25				
OCDF	105	100	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 10349001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6162892	32	55	48	47	49	50
Blank	11*	19*	18*	17*	18*	17*
OPR	18*	33	30	29	30	28*

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225036
Reported: 01/28/11 at 04:59 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6162892	46	42	34	52	47	46
Blank	16*	15*	12*	20*	16*	17*
OPR	27*	24*	18	31*	29	30*
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6162892	45	45	43	35	51	53
Blank	16*	17*	16*	12*	18*	18*
OPR	28	27*	26	19	29	31
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 10356002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6162881	59	75	74	77	74	72
6162882	68	82	80	87	80	79
6162883	57	74	74	80	74	70
6162884	55	72	73	81	73	72
6162885	68	87	82	85	81	80
6162886	69	82	79	84	79	79
6162887	68	80	78	83	78	76
6162888	68	81	79	84	78	72
6162889	70	85	78	82	79	77
6162890	57	73	67	71	66	67
6162891	60	79	80	81	79	76
6162893	66	78	74	82	75	69
6162894	59	73	70	75	69	64
6162895	39	47	44	50	46	42
6162896	71	79	75	78	77	77
6162897	58	68	63	41	65	63
6162898	62	80	73	72	74	74
6162899	63	79	74	69	73	72
6162900	46	63	59	49	58	56
6162901	65	75	72	44	72	69
6162902	64	82	72	76	73	70
Blank	49	47	42	53	46	39
MS	57	73	67	71	66	67
MSD	60	79	80	81	79	76
OPR	52	71	68	73	68	66

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6162881	82	74	69	66	72	72
6162882	92	80	77	74	80	79
6162883	90	73	68	68	73	75

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225036
Reported: 01/28/11 at 04:59 PM

Surrogate Quality Control

6162884	94	71	65	65	70	74
6162885	88	84	79	77	80	78
6162886	95	77	70	78	78	77
6162887	88	76	70	75	74	75
6162888	95	70	62	75	76	75
6162889	93	76	67	74	79	76
6162890	73	67	63	63	69	64
6162891	85	81	77	68	75	76
6162893	104	66	53	71	74	74
6162894	84	67	60	68	69	67
6162895	56	42	36	43	43	43
6162896	81	75	66	72	74	72
6162897	71	61	54	68	66	62
6162898	81	72	65	73	76	73
6162899	79	72	64	72	76	72
6162900	62	56	50	56	57	57
6162901	72	60	43	68	72	69
6162902	81	71	62	71	78	72
Blank	74	44	43	44	54	53
MS	73	67	63	63	69	64
MSD	85	81	77	68	75	76
OPR	82	69	65	66	69	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6162881	72	71	74	72	64	76
6162882	80	79	82	81	72	86
6162883	73	73	77	75	60	77
6162884	73	71	76	74	58	76
6162885	79	78	80	78	77	86
6162886	78	77	80	79	74	84
6162887	74	75	76	74	72	81
6162888	75	74	76	72	75	81
6162889	75	76	77	75	76	83
6162890	64	64	66	64	62	74
6162891	77	74	79	76	67	77
6162893	72	74	75	72	71	82
6162894	67	66	70	67	66	76
6162895	44	44	45	43	44	51
6162896	71	75	74	71	75	81
6162897	63	63	62	58	61	53
6162898	72	71	73	67	67	73
6162899	72	72	71	65	70	70
6162900	56	55	54	49	52	49
6162901	67	67	62	53	68	57
6162902	71	70	72	65	69	80
Blank	53	54	61	58	39	55
MS	64	64	66	64	62	74
MSD	77	74	79	76	67	77
OPR	69	69	72	70	58	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1225036 Sample# 6162881-902

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-015-SA5C-SB-4.0-5.0	12/8/10	1423	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-015-SA5C-SB-4.0-5.0	12/8/10	1433	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-015-SA5C-SB-4.0-5.0	12/8/10	1433	soil	none	3 x 4 oz. jars					X															X	X	
SL-015-SA5C-SB-9.0-10.0	12/8/10	1440	soil	none	2 x 16 oz. Jars			X			X	X	X	X	X	X											
SL-015-SA5C-SB-9.0-10.0	12/8/10	1440	soil	none	1 x 16 oz. jar													X	X	X	X	X	X	X			
SL-015-SA5C-SB-9.0-10.0	12/8/10	1440	soil	none	3 x 4 oz. jars					X															X	X	
SL-020-SA5C-SB-4.0-5.0	12/8/10	0955	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X											
SL-020-SA5C-SB-4.0-5.0	12/8/10	0955	soil	none	3 x 4 oz. jars					X															X	X	
SL-020-SA5C-SB-7.5-8.5	12/8/10	1000	soil	none	3 x 4 oz. jars					X															X	X	
SL-015-SA5C-SB-4.5	12/8/10	1423	soil	none	5 Encore samplers	X	X		X																		
SL-015-SA5C-SB-9.5	12/8/10	1435	soil	none	5 Encore samplers	X	X		X																		
SL-020-SA5C-SB-4.5	12/8/10	0950	soil	none	5 Encore samplers	X	X		X																		
SL-020-SA5C-SB-8.0	12/8/10	0958	soil	none	5 Encore samplers	X	X		X																		
SL-021-SA5C-SB-4.5	12/8/10	1150	soil	none	5 Encore samplers	X	X		X																		
SL-021-SA5C-SB-9.5	12/8/10	1158	soil	none	5 Encore samplers	X	X		X																		
TB-120810	12/8/10	1630	water	HCl	4 - 40 ml vials	X	X		X																		

Relinquished by: (Signature) — Date/Time: 12.08.10 1630

Received for Laboratory by: (Signature) — Date/Time: 12/10/10 915

Received by: (Signature) — Date/Time:

Airbill No. 00732992
Tracking Number 869514318211

Laboratory: Lancaster Laboratories, Inc.

Cooler 1

acct#13013 Qp#1225036 sample# 6162881-902

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-020-SA5C-SB-4.0-5.0	12/8/10	0955	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-020-SA5C-SB-7.5-8.5	12/8/10	1000	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-020-SA5C-SB-7.5-8.5	12/8/10	1000	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-016-SA5C-SB-4.0-5.0	12/8/10	1610	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-016-SA5C-SB-4.0-5.0	12/8/10	1610	soil	none	1 x 16 oz. Jar															X	X	X	X	X	X	X			
SL-016-SA5C-SB-9.0-10.0	12/8/10	1623	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-016-SA5C-SB-9.0-10.0	12/8/10	1623	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-021-SA5C-SB-4.0-5.0	12/8/10	1155	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-021-SA5C-SB-4.0-5.0	12/8/10	1155	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-021-SA5C-SB-9.0-10.0	12/8/10	1200	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X												
SL-021-SA5C-SB-9.0-10.0	12/8/10	1200	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-018-SA5B-SS-0.0-0.5MS	12/8/10	1530	soil	none	2 x 16 oz. jar					X	X	X	X	X	X	X	X												Matrix spike
SL-018-SA5B-SS-0.0-0.5MS	12/8/10	1530	soil	none	2 x 16 oz. jar															X	X	X	X	X	X	X	X	X	Matrix spike
Sample ID was updated per PB on 12/8/10. NLM 12/14/10																													

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.08.10 1630		12/10/10 945
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514317259	

Laboratory: Lancaster Laboratories, Inc.

Cooler 4

acct# 13013 Gp# 1225036 Sample# 6162881-902

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate-Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
EB-01-SA5B-120910	12/9/10	1210	water	none	7-1 liter amber			X						X	X			X	X										
EB-01-SA5B-120910	12/9/10	1210	water	none	1-500 ml poly							X	X			X									X				
EB-01-SA5B-120910	12/9/10	1210	water	HNO3	1-500 ml poly						X																		
SL-017-SA5C-SB-4.5	12/9/10	1016	soil	none	5 Encore samplers	X	X		X																				
SL-017-SA5C-SB-9.5	12/9/10	1028	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5C-SB-4.5	12/9/10	0949	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5C-SB-9.5	12/9/10	1000	soil	none	5 Encore samplers	X	X		X																				
SL-012-SA5C-SB-4.5	12/9/10	1300	soil	none	5 Encore samplers	X	X		X																				
SL-012-SA5C-SB-9.5	12/9/10	1310	soil	none	5 Encore samplers	X	X		X																				
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	5 Encore samplers	X	X		X																				
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	5 Encore samplers	X	X		X																				
SL-018-SA5B-SS-0.0-0.5	12/9/10	0845	soil	none	5 Encore samplers	X	X		X																				
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	5 Encore samplers	X	X		X																				
SL-013-SA5C-SB-9.5	12/9/10	1348	soil	none	5 Encore samplers	X	X		X																				
SL-013-SA5C-SB-4.5	12/9/10	1340	soil	none	5 Encore samplers	X	X		X																				
TB-120910	12/9/10	1630	soil	none	5 Encore samplers	X	X		X																				

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317774	

Laboratory: Lancaster Laboratories, Inc.

Cooler 4

869514317774

acct# 13013 Qp# 1225036 Sample# 6162881-902

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB14-SA5C-120810	12/8/10		water	none	3 - 1 Liter amber glass																	X	X						
EB14-SA5C-120810	12/8/10		water	HCl	2 - 1 Liter amber glass					X																X			
EB14-SA5C-120810	12/8/10		water	NaOH	1 - 500 mL poly bottle																			X				
EB14-SA5C-120810	12/8/10		water	none	1 - 250 ml clear glass																X							
EB14-SA5C-120810	12/8/10		water	HCl	4 - 40 ml vials				X																			X	
EB14-SA5C-120810	12/8/10		water	none	4 - 40 ml vials															X							X		
SL-029-SA5B-SS-0.0-0.5	12/8/10	1427	soil	none	1 x 16 oz. jar						X	X	X	X	X	X		X	X										
SL-034-SA5B-SS-0.0-0.5	12/8/10	1325	soil	none	1 x 16 oz. jar						X	X	X	X	X	X		X	X										
SL-035-SA5B-SS-0.0-0.5	12/8/10	1400	soil	none	1 x 16 oz. jar						X	X	X	X	X	X		X	X										
SL-036-SA5B-SS-0.0-0.5	12/8/10	1345	soil	none	1 x 16 oz. jar						X	X	X	X	X	X		X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.07.10 1630		12/10 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514318222		Cooler 2

acct#13013 Cap# 1125036 Sample# 6162681-902

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SUBSURFACE SAMPLES

Samplers: *(Signature)* Pamela Staton

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-016-SA5C-SB-4.0-5.0	12/8/10	1610	soil	none	3 x 4 oz. jars					X															X	X	
SL-016-SA5C-SB-9.0-10.0	12/8/10	1623	soil	none	3 x 4 oz. jars					X															X	X	
SL-021-SA5C-SB-4.0-5.0	12/8/10	1155	soil	none	3 x 4 oz. jars					X															X	X	
SL-021-SA5C-SB-9.0-10.0	12/8/10	1200	soil	none	3 x 4 oz. jars					X															X	X	
SL-022-SA5C-SB-4.0-5.0	12/9/10	0956	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X										
SL-022-SA5C-SB-4.0-5.0	12/9/10	0956	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-022-SA5C-SB-4.0-5.0	12/9/10	0956	soil	none	3 x 4 oz. jars					X															X	X	
SL-022-SA5C-SB-9.0-10.0	12/9/10	1002	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X										
SL-022-SA5C-SB-9.0-10.0	12/9/10	1002	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-022-SA5C-SB-9.0-10.0	12/9/10	1002	soil	none	3 x 4 oz. jars					X															X	X	

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.09.10 1630		12/10/10 915	Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Airbill No. 00732992 Tracking Number 869514317248		Cooler 3

acct#13013 Cap# 1225036 Sample# 6162881-962

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

SUBSURFACE SAMPLES

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-012-SA5C-SB-4.0-5.0	12/9/10	1305	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X										
SL-012-SA5C-SB-4.0-5.0	12/9/10	1305	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-012-SA5C-SB-4.0-5.0	12/9/10	1305	soil	none	3 x 4 oz. jars					X															X	X	
SL-012-SA5C-SB-9.0-10.0	12/8/10	1314	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X										
SL-012-SA5C-SB-4.0-5.0	12/8/10	1314	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-012-SA5C-SB-4.0-5.0	12/8/10	1314	soil	none	3 x 4 oz. jars					X															X	X	
SL-013-SA5C-SB-4.0-5.0	12/9/10	1344	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X										
SL-013-SA5C-SB-4.0-5.0	12/9/10	1344	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-013-SA5C-SB-4.0-5.0	12/9/10	1344	soil	none	3 x 4 oz. jars					X															X	X	
SL-013-SA5C-SB-9.0-10.0	12/9/10	1352	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X	X										
SL-013-SA5C-SB-9.0-10.0	12/9/10	1352	soil	none	1 x 16 oz. jars													X	X	X	X	X	X	X			
SL-013-SA5C-SB-9.0-10.0	12/9/10	1352	soil	none	3 x 4 oz. jars					X															X	X	

Relinquished by: (Signature) — Date/Time: 12.09.10 1630

Received for Laboratory by: (Signature) — Date/Time: 12/10/10 915

Received by: (Signature) — Date/Time:

Airbill No.: 00732992
Tracking Number 869514317237

Laboratory: Lancaster Laboratories, Inc.

Cooler 6

869514317237

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/10/2010
Group Number: 1225037
SDG: DE034
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA5C-SB-4.0-5.0 Soil	6162903
SL-017-SA5C-SB-9.0-10.0 Soil	6162904
SL-008-SA5B-SS-0.0-0.5 Soil	6162905
SL-009-SA5B-SS-0.0-0.5 Soil	6162906
SL-228-SA5B-SS-0.0-0.5 Soil	6162907
SL-229-SA5B-SS-0.0-0.5 Soil	6162908
SL-048-SA5B-SS-0.0-0.5 Soil	6162909
SL-051-SA5B-SS-0.0-0.5 Soil	6162910
SL-062-SA5B-SS-0.0-0.5 Soil	6162911
SL-064-SA5B-SS-0.0-0.5 Soil	6162912
SL-232-SA5B-SS-0.0-0.5 Soil	6162913
SL-233-SA5B-SS-0.0-0.5 Soil	6162914
SL-299-SA5B-SS-0.0-0.5 Soil	6162915
SL-300-SA5B-SS-0.0-0.5 Soil	6162916
SL-067-SA5B-SS-0.0-0.5 Soil	6162917
SL-059-SA5B-SS-0.0-0.5 Soil	6162918
SL-065-SA5B-SS-0.0-0.5 Soil	6162919
SL-061-SA5B-SS-0.0-0.5 Soil	6162920
SL-070-SA5B-SS-0.0-0.5 Soil	6162921

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

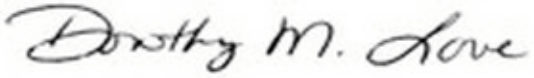

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162903
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3401 SDG#: DE034-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.9		7.2	8.6		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.97
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.97
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.97
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.97
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.97
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.97
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.97
06192	Methylene Chloride	75-09-2	1.1	J	0.26	4.3		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.97

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SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162903
LLI Group # 1225037
Account # 13013

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Suite 210
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E3401 SDG#: DE034-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.97
06192	Toluene	108-88-3	0.11	J	0.09	4.3		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.97
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.5	U	18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	130	J	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1

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SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

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E3401 SDG#: DE034-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1

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E3401 SDG#: DE034-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.82	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.9	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
The GC/MS semivolatile internal standard peak areas were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and internal standard peak areas were again outside of QC limits, indicating a matrix effect.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.49
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	85	U	85	170	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.1		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	4.3		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	240	J	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162903
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3401 SDG#: DE034-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.41	21.5		1
07914	Boron	7440-42-8	8.63		0.958	5.38		1
01650	Calcium	7440-70-2	2,160		6.60	21.5		1
01654	Iron	7439-89-6	18,000		5.07	21.5		1
01656	Lithium	7439-93-2	17.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,310		2.73	10.8		1
06958	Manganese	7439-96-5	441		0.0840	0.538		1
10145	Phosphorus	7723-14-0	171		0.603	10.8		1
01662	Potassium	7440-09-7	2,340		19.4	53.8		1
01667	Sodium	7440-23-5	105	J	40.1	108		1
07968	Strontium	7440-24-6	19.0		0.0667	0.538		1
06969	Tin	7440-31-5	1.77	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,340		0.421	1.11		1
10146	Zirconium	7440-67-7	2.11	J	0.904	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0665	U	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.10		0.0665	0.443		2
06126	Barium	7440-39-3	143		0.120	0.443		2
06127	Beryllium	7440-41-7	0.729		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.219		0.0399	0.111		2
06131	Chromium	7440-47-3	20.0		0.133	0.443		2
06132	Cobalt	7440-48-4	8.93		0.0222	0.111		2
06133	Copper	7440-50-8	9.46		0.0732	0.443		2
06135	Lead	7439-92-1	7.25		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.680		0.0554	0.111		2
06139	Nickel	7440-02-0	14.9		0.111	0.443		2
06141	Selenium	7782-49-2	0.113	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0486	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.352		0.0333	0.111		2
06148	Vanadium	7440-62-2	30.2		0.0244	0.111		2
06149	Zinc	7440-66-6	57.9		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162903
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3401 SDG#: DE034-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.55		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	523		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.58		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-017-SA5C-SB-4.5.
The VOA, GRO, and 1,4-Dioxane containers were submitted to the laboratory on 12/10/10 at 09:15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/14/2010	22:47	Laura M Krieger	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/15/2010	23:31	Sara E Johnson	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	20:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010	15:49	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010	20:44	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10349SLE026	12/24/2010	19:07	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011	13:01	Brian K Graham	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162903
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3401 SDG#: DE034-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/24/2010 05:55	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10349SLE026	12/16/2010 03:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 10:53	Marie D John	20.49
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:44	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 20:56	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 01:00	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 08:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 04:27	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 17:38	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 16:26	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 03:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 19:30	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162903
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3401 SDG#: DE034-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 14:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 14:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 14:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 14:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 08:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10361361201A	12/29/2010 08:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 19:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/30/2010 17:06	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:51	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3402 SDG#: DE034-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	9.7		0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	0.97	J	0.24	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: SL-017-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3402 SDG#: DE034-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.8	U	6.8	21		30.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1

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SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3402 SDG#: DE034-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-017-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3402 SDG#: DE034-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.15
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U	84	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	70	U	70	170	10000000	1
10132	Tetryl	479-45-8	86	U	86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E3402 SDG#: DE034-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	3,500		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	1.7		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	5.4		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	230	J	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-017-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E3402 SDG#: DE034-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.46	21.7		1
07914	Boron	7440-42-8	8.45		0.967	5.43		1
01650	Calcium	7440-70-2	1,780		6.66	21.7		1
01654	Iron	7439-89-6	17,900		5.12	21.7		1
01656	Lithium	7439-93-2	22.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,640		2.76	10.9		1
06958	Manganese	7439-96-5	174		0.0847	0.543		1
10145	Phosphorus	7723-14-0	98.7		0.608	10.9		1
01662	Potassium	7440-09-7	1,700		19.5	54.3		1
01667	Sodium	7440-23-5	125		40.5	109		1
07968	Strontium	7440-24-6	18.0		0.0673	0.543		1
06969	Tin	7440-31-5	2.56	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,300		0.413	1.09		1
10146	Zirconium	7440-67-7	1.55	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0658	U	0.0658	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.44		0.0658	0.439		2
06126	Barium	7440-39-3	90.9		0.118	0.439		2
06127	Beryllium	7440-41-7	0.815		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0750	J	0.0395	0.110		2
06131	Chromium	7440-47-3	15.8		0.132	0.439		2
06132	Cobalt	7440-48-4	12.6		0.0219	0.110		2
06133	Copper	7440-50-8	6.98		0.0724	0.439		2
06135	Lead	7439-92-1	5.87		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.466		0.0548	0.110		2
06139	Nickel	7440-02-0	12.1		0.110	0.439		2
06141	Selenium	7782-49-2	0.0439	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0371	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.291		0.0329	0.110		2
06148	Vanadium	7440-62-2	31.8		0.0241	0.110		2
06149	Zinc	7440-66-6	55.8		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3402 SDG#: DE034-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	478		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-017-SA5C-SB-9.5.
The VOA, GRO, and 1,4-Dioxane containers were submitted to the laboratory on 12/10/10 at 09:15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	00:13	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/15/2010	23:50	Sara E Johnson	30.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010	20:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034723287	12/13/2010	15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034723287	12/10/2010	20:25	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10349SLE026	12/24/2010	19:24	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011	14:18	Brian K Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-017-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3402 SDG#: DE034-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 05:03	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10349SLE026	12/16/2010 03:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10348A34A	12/15/2010 11:30	Marie D John	21.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034723287	12/10/2010 20:26	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 21:39	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 01:10	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 09:50	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103470024A	12/17/2010 04:52	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 17:52	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/16/2010 20:49	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 04:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103470024A	12/14/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:01	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162904
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3402 SDG#: DE034-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 14:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 14:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 14:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 14:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 08:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10361361201A	12/29/2010 08:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 19:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/30/2010 17:22	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10357102201A	12/23/2010 19:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10357102201A	12/23/2010 15:10	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162905
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3403 SDG#: DE034-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)pyrene	50-32-8	22	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162905
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3403 SDG#: DE034-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.5	J	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	6.4		0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	19		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	21		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	3.5		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	11		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	18		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.83	J	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.2	19		1
10138	Fluoranthene	206-44-0	50		0.69	1.7		1
10138	Fluorene	86-73-7	1.6	J	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.7		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	20		0.69	1.7		1
10138	Pyrene	129-00-0	37		0.69	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	79	U	79	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.36	U	0.36	0.36		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162905
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3403 SDG#: DE034-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.12	U	0.12	0.17		1
01363	Chlordane	57-74-9	1.9	U	1.9	3.5		1
01363	p,p-DDD	72-54-8	0.52	U	0.52	0.52		1
01363	p,p-DDE	72-55-9	0.088	U	0.088	0.35		1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.35		1
01363	Delta BHC	319-86-8	0.064	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.22	U	0.22	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.091	U	0.091	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.048	U	0.048	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.49	U	0.49	0.49		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8		1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8		1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	1.5	J	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.34	U	0.34	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,750		5.11	20.3		1
07914	Boron	7440-42-8	8.55		0.904	5.08		1
01650	Calcium	7440-70-2	41,500		6.23	20.3		1
01654	Iron	7439-89-6	14,700		4.79	20.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-008-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162905
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3403 SDG#: DE034-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	12.6		0.22	2.0		1
01657	Magnesium	7439-95-4	4,240		2.58	10.2		1
06958	Manganese	7439-96-5	219		0.0792	0.508		1
10145	Phosphorus	7723-14-0	529		0.569	10.2		1
01662	Potassium	7440-09-7	2,290		18.3	50.8		1
01667	Sodium	7440-23-5	293		37.9	102		1
07968	Strontium	7440-24-6	270		0.0630	0.508		1
06969	Tin	7440-31-5	1.59	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,140		0.394	1.04		1
10146	Zirconium	7440-67-7	1.35	J	0.853	5.08		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0622	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.34		0.0622	0.415		2
06126	Barium	7440-39-3	100		0.112	0.415		2
06127	Beryllium	7440-41-7	0.285		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.179		0.0373	0.104		2
06131	Chromium	7440-47-3	16.0		0.124	0.415		2
06132	Cobalt	7440-48-4	5.33		0.0207	0.104		2
06133	Copper	7440-50-8	11.2		0.0684	0.415		2
06135	Lead	7439-92-1	5.13		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.815		0.0518	0.104		2
06139	Nickel	7440-02-0	9.28		0.104	0.415		2
06141	Selenium	7782-49-2	0.127	J	0.0415	0.415		2
06142	Silver	7440-22-4	0.0612	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.173		0.0311	0.104		2
06148	Vanadium	7440-62-2	25.9		0.0228	0.104		2
06149	Zinc	7440-66-6	78.5		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0126	J	0.0028	0.0969		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	430		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-008-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162905
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3403 SDG#: DE034-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.10	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	3.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 14:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 05:37	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 03:31	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 21:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 10:09	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162905
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3403 SDG#: DE034-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 22:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 14:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 14:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 14:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 14:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 11:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10356356201A	12/27/2010 19:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/30/2010 17:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10356356201A	12/22/2010 11:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102A	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402A	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162906
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3404 SDG#: DE034-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-009-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162906
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3404 SDG#: DE034-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	1.2	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.0		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	3.7		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	20		6.4	19		1
10138	Fluoranthene	206-44-0	8.0		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	2.2		0.71	1.8		1
10138	Pyrene	129-00-0	6.6		0.71	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	100	U	100	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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Sample Description: SL-009-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162906
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3404 SDG#: DE034-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6		1
01363	p,p-DDD	72-54-8	0.24	U	0.24	0.36		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.36		1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.36		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.27	U	0.27	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	3.9		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.86	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	1.4	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		5.28	21.0		1
07914	Boron	7440-42-8	8.88		0.934	5.25		1
01650	Calcium	7440-70-2	7,540		6.43	21.0		1
01654	Iron	7439-89-6	16,000		4.94	21.0		1

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Sample Description: **SL-009-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162906
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3404 SDG#: DE034-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	16.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,660		2.67	10.5		1
06958	Manganese	7439-96-5	211		0.0819	0.525		1
10145	Phosphorus	7723-14-0	428		0.588	10.5		1
01662	Potassium	7440-09-7	2,450		18.9	52.5		1
01667	Sodium	7440-23-5	287		39.2	105		1
07968	Strontium	7440-24-6	33.1		0.0651	0.525		1
06969	Tin	7440-31-5	1.92	J	1.05	10.5		1
06970	Titanium	7440-32-6	739		0.399	1.05		1
10146	Zirconium	7440-67-7	2.33	J	0.882	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0834	J	0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.81		0.0636	0.424		2
06126	Barium	7440-39-3	105		0.114	0.424		2
06127	Beryllium	7440-41-7	0.458		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.314		0.0382	0.106		2
06131	Chromium	7440-47-3	20.3		0.127	0.424		2
06132	Cobalt	7440-48-4	6.14		0.0212	0.106		2
06133	Copper	7440-50-8	9.04		0.0700	0.424		2
06135	Lead	7439-92-1	6.01		0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.08		0.0530	0.106		2
06139	Nickel	7440-02-0	12.8		0.106	0.424		2
06141	Selenium	7782-49-2	0.223	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.120		0.0127	0.106		2
06145	Thallium	7440-28-0	0.235		0.0318	0.106		2
06148	Vanadium	7440-62-2	27.7		0.0233	0.106		2
06149	Zinc	7440-66-6	72.7		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	J	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	21.3	J	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.74	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	414		10.0	10.0		1

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Sample Description: **SL-009-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162906
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

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Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3404 SDG#: DE034-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.57	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 15:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 06:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 04:54	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 21:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 10:27	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162906
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E3404 SDG#: DE034-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:34	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 11:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/27/2010 21:03	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/30/2010 17:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-228-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162907
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3405 SDG#: DE034-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	230	U	230	690		1
04688	Benzidine	92-87-5	1,600	U	1,600	4,600		1
04688	Benzo(a)anthracene	56-55-3	65	J	23	230		1
04688	Benzo(a)pyrene	50-32-8	54	J	23	230		1
04688	Benzo(b)fluoranthene	205-99-2	82	J	23	230		1
04688	Benzo(g,h,i)perylene	191-24-2	44	J	23	230		1
04688	Benzo(k)fluoranthene	207-08-9	36	J	23	230		1
04688	Benzoic acid	65-85-0	230	U	230	690		1
04688	Benzyl alcohol	100-51-6	230	U	230	690		1
04688	4-Bromophenyl-phenylether	101-55-3	23	U	23	230		1
04688	Di-n-butylphthalate	84-74-2	26	J	23	230		1
04688	Carbazole	86-74-8	23	U	23	230		1
04688	4-Chloro-3-methylphenol	59-50-7	46	U	46	230		1
04688	4-Chloroaniline	106-47-8	92	U	92	230		1
04688	bis(2-Chloroethoxy)methane	111-91-1	23	U	23	230		1
04688	bis(2-Chloroethyl)ether	111-44-4	23	U	23	230		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	23	U	23	230		1
04688	2-Chloronaphthalene	91-58-7	23	U	23	230		1
04688	2-Chlorophenol	95-57-8	23	U	23	230		1
04688	4-Chlorophenyl-phenylether	7005-72-3	46	U	46	230		1
04688	Chrysene	218-01-9	88	J	23	230		1
04688	Dibenz(a,h)anthracene	53-70-3	30	J	23	230		1
04688	Dibenzofuran	132-64-9	23	U	23	230		1
04688	1,2-Dichlorobenzene	95-50-1	23	U	23	230		1
04688	1,3-Dichlorobenzene	541-73-1	23	U	23	230		1
04688	1,4-Dichlorobenzene	106-46-7	23	U	23	230		1
04688	3,3'-Dichlorobenzidine	91-94-1	140	U	140	460		1
04688	2,4-Dichlorophenol	120-83-2	23	U	23	230		1
04688	2,4-Dimethylphenol	105-67-9	46	U	46	230		1
04688	3,5-Dimethylphenol	108-68-9	46	U	46	230		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	230	U	230	690		1
04688	2,4-Dinitrophenol	51-28-5	920	U	920	2,800		1
04688	2,4-Dinitrotoluene	121-14-2	46	U	46	230		1
04688	2,6-Dinitrotoluene	606-20-2	23	U	23	230		1
04688	1,2-Diphenylhydrazine	122-66-7	23	U	23	230		1
04688	Fluoranthene	206-44-0	160	J	23	230		1
04688	Hexachlorobenzene	118-74-1	23	U	23	230		1
04688	Hexachlorobutadiene	87-68-3	92	U	92	230		1
04688	Hexachlorocyclopentadiene	77-47-4	230	U	230	690		1
04688	Hexachloroethane	67-72-1	23	U	23	230		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	36	J	23	230		1
04688	Isophorone	78-59-1	23	U	23	230		1
04688	2-Methylphenol	95-48-7	46	U	46	230		1
04688	4-Methylphenol	106-44-5	46	U	46	230		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	23	U	23	230		1
04688	3-Nitroaniline	99-09-2	46	U	46	230		1
04688	4-Nitroaniline	100-01-6	92	U	92	230		1

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Sample Description: SL-228-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162907
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3405 SDG#: DE034-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	23	U	23	230		1
04688	2-Nitrophenol	88-75-5	23	U	23	230		1
04688	4-Nitrophenol	100-02-7	230	U	230	690		1
04688	N-Nitroso-di-n-propylamine	621-64-7	23	U	23	230		1
04688	N-Nitrosodiphenylamine	86-30-6	23	U	23	230		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	230	U	230	690		1
04688	Phenanthrene	85-01-8	79	J	23	230		1
04688	Phenol	108-95-2	23	U	23	230		1
04688	Pyrene	129-00-0	180	J	23	230		1
04688	1,2,4-Trichlorobenzene	120-82-1	23	U	23	230		1
04688	2,4,5-Trichlorophenol	95-95-4	46	U	46	230		1
04688	2,4,6-Trichlorophenol	88-06-2	46	U	46	230		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.92	U	0.92	2.3		1
10138	Acenaphthylene	208-96-8	0.46	U	0.46	2.3		1
10138	Anthracene	120-12-7	0.46	U	0.46	2.3		1
10138	Butylbenzylphthalate	85-68-7	8.3	U	8.3	25		1
10138	Diethylphthalate	84-66-2	8.3	U	8.3	25		1
10138	Dimethylphthalate	131-11-3	8.3	U	8.3	25		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	8.3	25		1
10138	Fluorene	86-73-7	0.92	U	0.92	2.3		1
10138	1-Methylnaphthalene	90-12-0	0.92	U	0.92	2.3		1
10138	2-Methylnaphthalene	91-57-6	0.92	U	0.92	2.3		1
10138	Naphthalene	91-20-3	0.92	U	0.92	2.3		1
10138	N-Nitrosodimethylamine	62-75-9	0.92	U	0.92	2.3		1
10138	Di-n-octylphthalate	117-84-0	8.3	U	8.3	25		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.7	U	1.7	5.0		1
10401	Dalapon	75-99-0	6.1	U	6.1	12		1
10401	2,4-DB	94-82-6	1.0	J	0.86	2.3		1
10401	Dicamba	1918-00-9	0.55	U	0.55	1.7		1
10401	Dinoseb	88-85-7	1.1	U	1.1	3.3		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	U	1.1	2.3		1
10401	MCPA	94-74-6	150	U	150	340		1
10401	MCPP (Mecoprop)	93-65-2	810		100	340		1
10401	2,4,5-T	93-76-5	0.24		0.11	0.23		1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.23		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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Sample Description: SL-228-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162907
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3405 SDG#: DE034-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.091	U	0.091	0.23		1
01363	Alpha BHC	319-84-6	0.047	U	0.047	0.23		1
01363	Beta BHC	319-85-7	0.083	U	0.083	0.23		1
01363	Gamma BHC - Lindane	58-89-9	0.047	U	0.047	0.23		1
01363	Chlordane	57-74-9	5.7	U	5.7	5.7		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.47		1
01363	p,p-DDE	72-55-9	0.43	U	0.43	0.47		1
01363	p,p-DDT	50-29-3	3.9	U	3.9	3.9		1
01363	Delta BHC	319-86-8	0.050	U	0.050	0.23		1
01363	Dieldrin	60-57-1	0.86	U	0.86	0.86		1
01363	Endosulfan I	959-98-8	0.061	U	0.061	0.23		1
01363	Endosulfan II	33213-65-9	1.5	U	1.5	1.5		1
01363	Endosulfan Sulfate	1031-07-8	0.091	U	0.091	0.47		1
01363	Endrin	72-20-8	0.091	U	0.091	0.47		1
01363	Endrin Aldehyde	7421-93-4	0.54	U	0.54	0.54		1
01363	Endrin Ketone	53494-70-5	0.091	U	0.091	0.47		1
01363	Heptachlor	76-44-8	0.14	U	0.14	0.23		1
01363	Heptachlor Epoxide	1024-57-3	0.30	U	0.30	0.30		1
01363	Methoxychlor	72-43-5	0.47	U	0.47	2.3		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.47		1
01363	Toxaphene	8001-35-2	3.0	U	3.0	9.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.4	U	1.4	4.6		1
10225	Aroclor 5442	12642-23-8	1.4	U	1.4	4.6		1
10225	Aroclor 5460	11126-42-4	5.4		1.4	4.6		1
10225	PCB-1016	12674-11-2	0.46	U	0.46	2.3		1
10225	PCB-1221	11104-28-2	0.69	U	0.69	2.3		1
10225	PCB-1232	11141-16-5	0.72	U	0.72	2.3		1
10225	PCB-1242	53469-21-9	0.69	U	0.69	2.3		1
10225	PCB-1248	12672-29-6	0.46	U	0.46	2.3		1
10225	PCB-1254	11097-69-1	0.46	U	0.46	2.3		1
10225	PCB-1260	11096-82-5	14		0.46	2.3		1
10225	PCB-1262	37324-23-5	0.46	U	0.46	2.3		1
10225	PCB-1268	11100-14-4	0.46	U	0.46	2.3		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	9,890		6.80	27.0		1
07914	Boron	7440-42-8	7.82		1.20	6.76		1
01650	Calcium	7440-70-2	4,930		8.29	27.0		1
01654	Iron	7439-89-6	14,800		6.37	27.0		1

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Sample Description: **SL-228-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162907
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3405 SDG#: DE034-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	17.3		0.30	2.7		1
01657	Magnesium	7439-95-4	3,000		3.43	13.5		1
06958	Manganese	7439-96-5	236		0.105	0.676		1
10145	Phosphorus	7723-14-0	310		0.757	13.5		1
01662	Potassium	7440-09-7	2,620		24.3	67.6		1
01667	Sodium	7440-23-5	72.1	J	50.4	135		1
07968	Strontium	7440-24-6	13.4		0.0838	0.676		1
06969	Tin	7440-31-5	1.91	J	1.35	13.5		1
06970	Titanium	7440-32-6	1,560		0.514	1.35		1
10146	Zirconium	7440-67-7	1.27	J	1.14	6.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0967	J	0.0819	0.273		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.24		0.0819	0.546		2
06126	Barium	7440-39-3	101		0.147	0.546		2
06127	Beryllium	7440-41-7	0.472		0.0219	0.137		2
06128	Cadmium	7440-43-9	0.320		0.0492	0.137		2
06131	Chromium	7440-47-3	23.3		0.164	0.546		2
06132	Cobalt	7440-48-4	6.02		0.0273	0.137		2
06133	Copper	7440-50-8	16.8		0.0901	0.546		2
06135	Lead	7439-92-1	12.3		0.0142	0.273		2
06138	Molybdenum	7439-98-7	0.567		0.0683	0.137		2
06139	Nickel	7440-02-0	15.4		0.137	0.546		2
06141	Selenium	7782-49-2	0.101	J	0.0546	0.546		2
06142	Silver	7440-22-4	0.0297	J	0.0164	0.137		2
06145	Thallium	7440-28-0	0.240		0.0410	0.137		2
06148	Vanadium	7440-62-2	23.8		0.0300	0.137		2
06149	Zinc	7440-66-6	91.6		0.765	4.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0087	J	0.0038	0.134		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		1.1	1.4		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	12.4	U	12.4	41.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.28	1.4		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	433		10.0	10.0		1

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Sample Description: **SL-228-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162907
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3405 SDG#: DE034-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.79	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	27.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 15:35	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 06:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 06:17	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 21:50	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 10:46	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162907
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3405 SDG#: DE034-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 14:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/27/2010 22:39	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/30/2010 18:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-229-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162908
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3406 SDG#: DE034-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-229-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162908
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3406 SDG#: DE034-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	1.9	J	0.71	1.9		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	140	U	140	280		1
10401	MCPP (Mecoprop)	93-65-2	180	J	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-229-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162908
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3406 SDG#: DE034-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.12	J	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.39		1
01363	p,p-DDT	50-29-3	0.075	U	0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.099	U	0.099	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.59		0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.96	J	0.39	1.9		1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

The LCS recovery for p,p-DDT and methoxychlor are outside the QC limits.
Results from the reextraction are within the limits for p,p-DDT and methoxychlor. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts for p,p-DDT and methoxychlor.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for p,p-DDE and dieldrin represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-229-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162908
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3406 SDG#: DE034-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.67	22.6		1
07914	Boron	7440-42-8	9.10		1.00	5.64		1
01650	Calcium	7440-70-2	4,140		6.91	22.6		1
01654	Iron	7439-89-6	15,800		5.31	22.6		1
01656	Lithium	7439-93-2	17.2		0.25	2.3		1
01657	Magnesium	7439-95-4	3,650		2.86	11.3		1
06958	Manganese	7439-96-5	232		0.0880	0.564		1
10145	Phosphorus	7723-14-0	425		0.631	11.3		1
01662	Potassium	7440-09-7	2,520		20.3	56.4		1
01667	Sodium	7440-23-5	668		42.1	113		1
07968	Strontium	7440-24-6	30.3		0.0699	0.564		1
06969	Tin	7440-31-5	1.59	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,030		0.424	1.12		1
10146	Zirconium	7440-67-7	2.55	J	0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.27		0.0677	0.451		2
06126	Barium	7440-39-3	99.7		0.122	0.451		2
06127	Beryllium	7440-41-7	0.470		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.213		0.0406	0.113		2
06131	Chromium	7440-47-3	22.6		0.135	0.451		2
06132	Cobalt	7440-48-4	5.92		0.0226	0.113		2
06133	Copper	7440-50-8	9.77		0.0744	0.451		2
06135	Lead	7439-92-1	7.53		0.0117	0.226		2
06138	Molybdenum	7439-98-7	1.21		0.0564	0.113		2
06139	Nickel	7440-02-0	14.2		0.113	0.451		2
06141	Selenium	7782-49-2	0.162	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0404	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.257		0.0338	0.113		2
06148	Vanadium	7440-62-2	25.6		0.0248	0.113		2
06149	Zinc	7440-66-6	97.2		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0185	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-229-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162908
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3406 SDG#: DE034-06

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	438	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.81	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 16:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 07:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 06:44	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 22:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 11:04	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-229-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162908
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3406 SDG#: DE034-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 14:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/27/2010 23:03	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/30/2010 18:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162909
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3407 SDG#: DE034-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-048-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162909
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3407 SDG#: DE034-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	14	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	2.0		0.70	1.9		1
10401	Dicamba	1918-00-9	0.47	J	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162909
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3407 SDG#: DE034-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.043	U	0.043	0.19		1
01363	Chlordane	57-74-9	2.1	U	2.1	3.8		1
01363	p,p-DDD	72-54-8	0.10	U	0.10	0.38		1
01363	p,p-DDE	72-55-9	0.26	U	0.26	0.38		1
01363	p,p-DDT	50-29-3	0.45	U	0.45	0.45		1
01363	Delta BHC	319-86-8	0.050	U	0.050	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.36	U	0.36	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.22	U	0.22	0.22		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.73	U	0.73	0.73		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.6	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,300		5.51	21.9		1
07914	Boron	7440-42-8	6.83		0.974	5.47		1
01650	Calcium	7440-70-2	2,620		6.71	21.9		1
01654	Iron	7439-89-6	27,600		25.8	109		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-048-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162909
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3407 SDG#: DE034-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	24.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,080		2.78	10.9		1
06958	Manganese	7439-96-5	322		0.0854	0.547		1
10145	Phosphorus	7723-14-0	350		0.613	10.9		1
01662	Potassium	7440-09-7	4,830		19.7	54.7		1
01667	Sodium	7440-23-5	80.4	J	40.8	109		1
07968	Strontium	7440-24-6	13.7		0.0679	0.547		1
06969	Tin	7440-31-5	3.11	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,120		0.420	1.11		1
10146	Zirconium	7440-67-7	0.919	U	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0697	J	0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0676	0.451		2
06126	Barium	7440-39-3	118		0.122	0.451		2
06127	Beryllium	7440-41-7	0.602		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.203		0.0406	0.113		2
06131	Chromium	7440-47-3	16.6		0.135	0.451		2
06132	Cobalt	7440-48-4	5.82		0.0225	0.113		2
06133	Copper	7440-50-8	8.26		0.0744	0.451		2
06135	Lead	7439-92-1	7.82		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.327		0.0564	0.113		2
06139	Nickel	7440-02-0	10.9		0.113	0.451		2
06141	Selenium	7782-49-2	0.0943	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0230	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.395		0.0338	0.113		2
06148	Vanadium	7440-62-2	26.7		0.0248	0.113		2
06149	Zinc	7440-66-6	84.3		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.98	J	0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	470		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-048-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162909
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3407 SDG#: DE034-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.68	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 16:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 07:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 07:12	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 22:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 12:37	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/20/2010 12:53	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1

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Analysis Report

Sample Description: SL-048-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162909
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3407 SDG#: DE034-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 14:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/27/2010 23:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/30/2010 18:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162910
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3408 SDG#: DE034-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162910
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3408 SDG#: DE034-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.6	J	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.92	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	23		6.7	20		1
10138	Fluoranthene	206-44-0	0.97	J	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	19	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.95	J	0.74	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	1.9	J	0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	170	J	84	280		1
10401	MCPP (Mecoprop)	93-65-2	200	J	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-051-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162910
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3408 SDG#: DE034-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.049	U	0.049	0.18		1
01363	Chlordane	57-74-9	5.7	U	5.7	5.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.34	U	0.34	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.099	U	0.099	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.097	U	0.097	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.20	U	0.20	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.28	U	0.28	0.28		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.17	U	0.17	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.4		5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.4		5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.4		5
10225	PCB-1248	12672-29-6	23		1.8	9.4		5
10225	PCB-1254	11097-69-1	12		1.8	9.4		5
10225	PCB-1260	11096-82-5	7.7	J	1.8	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		5.58	22.2		1
07914	Boron	7440-42-8	10.7		0.988	5.55		1
01650	Calcium	7440-70-2	23,000		6.80	22.2		1
01654	Iron	7439-89-6	24,000		5.23	22.2		1
01656	Lithium	7439-93-2	26.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,750		2.82	11.1		1
06958	Manganese	7439-96-5	313		0.0866	0.555		1

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Analysis Report

Sample Description: SL-051-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162910
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3408 SDG#: DE034-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	428		0.622	11.1		1
01662	Potassium	7440-09-7	3,810		20.0	55.5		1
01667	Sodium	7440-23-5	130		41.4	111		1
07968	Strontium	7440-24-6	50.0		0.0688	0.555		1
06969	Tin	7440-31-5	2.10	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,490		0.406	1.07		1
10146	Zirconium	7440-67-7	2.28	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.92		0.0666	0.444		2
06126	Barium	7440-39-3	115		0.120	0.444		2
06127	Beryllium	7440-41-7	0.634		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.339		0.0400	0.111		2
06131	Chromium	7440-47-3	26.8		0.133	0.444		2
06132	Cobalt	7440-48-4	7.84		0.0222	0.111		2
06133	Copper	7440-50-8	12.4		0.0733	0.444		2
06135	Lead	7439-92-1	10.6		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.668		0.0555	0.111		2
06139	Nickel	7440-02-0	17.0		0.111	0.444		2
06141	Selenium	7782-49-2	0.164	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0263	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.353		0.0333	0.111		2
06148	Vanadium	7440-62-2	38.1		0.0244	0.111		2
06149	Zinc	7440-66-6	101		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0352	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.7		0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	447		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-051-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162910
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3408 SDG#: DE034-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.58	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 16:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 08:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 07:40	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 22:33	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 12:56	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-051-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162910
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3408 SDG#: DE034-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:30	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10361361201A	12/29/2010 15:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/27/2010 23:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10359243202A	12/30/2010 19:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10361361201A	12/27/2010 14:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-062-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162911
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3409 SDG#: DE034-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-062-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162911
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3409 SDG#: DE034-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	11		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1

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Sample Description: SL-062-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162911
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3409 SDG#: DE034-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.088	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.29	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The LCS recovery for p,p-DDT and methoxychlor are outside the QC limits. Results from the reextraction are within the limits for p,p-DDT and methoxychlor. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts for p,p-DDT and methoxychlor.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,000		5.65	22.5		1
07914	Boron	7440-42-8	14.6		1.00	5.62		1
01650	Calcium	7440-70-2	68,400		34.4	112		5
01654	Iron	7439-89-6	30,100		5.29	22.5		1
01656	Lithium	7439-93-2	24.6		0.25	2.2		1

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Sample Description: **SL-062-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162911
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3409 SDG#: DE034-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,230		2.85	11.2		1
06958	Manganese	7439-96-5	343		0.0876	0.562		1
10145	Phosphorus	7723-14-0	590		0.629	11.2		1
01662	Potassium	7440-09-7	5,630		20.2	56.2		1
01667	Sodium	7440-23-5	147		41.9	112		1
07968	Strontium	7440-24-6	112		0.0696	0.562		1
06969	Tin	7440-31-5	1.51	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,470		0.431	1.13		1
10146	Zirconium	7440-67-7	2.72	J	0.944	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0674	U	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.32		0.0674	0.449		2
06126	Barium	7440-39-3	133		0.121	0.449		2
06127	Beryllium	7440-41-7	0.724		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.457		0.0404	0.112		2
06131	Chromium	7440-47-3	31.8		0.135	0.449		2
06132	Cobalt	7440-48-4	9.51		0.0225	0.112		2
06133	Copper	7440-50-8	15.8		0.0741	0.449		2
06135	Lead	7439-92-1	10.8		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.442		0.0562	0.112		2
06139	Nickel	7440-02-0	20.5		0.112	0.449		2
06141	Selenium	7782-49-2	0.344	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0359	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.411		0.0337	0.112		2
06148	Vanadium	7440-62-2	45.8		0.0247	0.112		2
06149	Zinc	7440-66-6	88.8		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	454		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162911
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3409 SDG#: DE034-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.45	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011	17:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010	09:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010	07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010	07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010	08:07	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010	22:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010	13:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103500011A	12/16/2010	16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010	00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010	02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/20/2010	13:01	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010	23:53	John W Yanzuk II	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162911
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3409 SDG#: DE034-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:34	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:53	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 11:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/28/2010 00:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/30/2010 20:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162912
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3410 SDG#: DE034-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	58	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162912
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3410 SDG#: DE034-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.8	J	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.6	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.7	20		1
10138	Fluoranthene	206-44-0	1.2	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	1.1	J	0.75	1.9		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162912
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3410 SDG#: DE034-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38		1
01363	p,p-DDT	50-29-3	0.33	U	0.33	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.083	U	0.083	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.18	U	0.18	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	7.1		0.37	1.9		1
10225	PCB-1260	11096-82-5	5.7		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,200		5.42	21.5		1
07914	Boron	7440-42-8	10.6		0.958	5.38		1
01650	Calcium	7440-70-2	20,300		6.60	21.5		1
01654	Iron	7439-89-6	25,100		5.07	21.5		1
01656	Lithium	7439-93-2	25.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,150		2.73	10.8		1
06958	Manganese	7439-96-5	344		0.0840	0.538		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162912
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3410 SDG#: DE034-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	528		0.603	10.8		1
01662	Potassium	7440-09-7	5,080		19.4	53.8		1
01667	Sodium	7440-23-5	156		40.2	108		1
07968	Strontium	7440-24-6	43.0		0.0668	0.538		1
06969	Tin	7440-31-5	1.79	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,380		0.413	1.09		1
10146	Zirconium	7440-67-7	2.11	J	0.904	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0771	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.89		0.0665	0.443		2
06126	Barium	7440-39-3	120		0.120	0.443		2
06127	Beryllium	7440-41-7	0.628		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.339		0.0399	0.111		2
06131	Chromium	7440-47-3	29.5		0.133	0.443		2
06132	Cobalt	7440-48-4	9.34		0.0222	0.111		2
06133	Copper	7440-50-8	15.3		0.0732	0.443		2
06135	Lead	7439-92-1	10.4		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.611		0.0554	0.111		2
06139	Nickel	7440-02-0	19.4		0.111	0.443		2
06141	Selenium	7782-49-2	0.187	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0352	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.386		0.0333	0.111		2
06148	Vanadium	7440-62-2	41.2		0.0244	0.111		2
06149	Zinc	7440-66-6	101		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0124	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	436		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-064-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162912
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3410 SDG#: DE034-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 17:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 14:16	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 08:35	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 23:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 13:33	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-064-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162912
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3410 SDG#: DE034-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:38	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/17/2010 23:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 13:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/28/2010 00:39	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10359243202A	12/30/2010 20:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

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Analysis Report

Sample Description: SL-232-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162913
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3411 SDG#: DE034-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	21	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-232-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162913
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3411 SDG#: DE034-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.9	21		1
10138	Fluoranthene	206-44-0	1.2	J	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.90	J	0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.0	J	0.71	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	200	J	88	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-232-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162913
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3411 SDG#: DE034-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.076	U	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	1.9	J	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	4.4		0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,200		5.68	22.6		1
07914	Boron	7440-42-8	14.0		1.01	5.65		1
01650	Calcium	7440-70-2	48,700		6.92	22.6		1
01654	Iron	7439-89-6	27,100		5.32	22.6		1
01656	Lithium	7439-93-2	25.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,920		2.87	11.3		1
06958	Manganese	7439-96-5	339		0.0881	0.565		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-232-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162913
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3411 SDG#: DE034-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	557		0.633	11.3		1
01662	Potassium	7440-09-7	5,080		20.3	56.5		1
01667	Sodium	7440-23-5	121		42.1	113		1
07968	Strontium	7440-24-6	91.8		0.0700	0.565		1
06969	Tin	7440-31-5	2.06	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,540		0.429	1.13		1
10146	Zirconium	7440-67-7	3.22	J	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0843	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.13		0.0671	0.447		2
06126	Barium	7440-39-3	134		0.121	0.447		2
06127	Beryllium	7440-41-7	0.660		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.470		0.0403	0.112		2
06131	Chromium	7440-47-3	30.5		0.134	0.447		2
06132	Cobalt	7440-48-4	9.76		0.0224	0.112		2
06133	Copper	7440-50-8	16.7		0.0738	0.447		2
06135	Lead	7439-92-1	11.8		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.686		0.0559	0.112		2
06139	Nickel	7440-02-0	20.1		0.112	0.447		2
06141	Selenium	7782-49-2	0.244	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0305	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.393		0.0336	0.112		2
06148	Vanadium	7440-62-2	41.4		0.0246	0.112		2
06149	Zinc	7440-66-6	167		0.626	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	414		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-232-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162913
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3411 SDG#: DE034-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.41	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 18:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 14:50	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 09:02	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 23:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 13:52	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-232-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162913
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3411 SDG#: DE034-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:42	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 13:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/28/2010 01:03	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10359243202A	12/30/2010 21:14	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-233-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162914
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3412 SDG#: DE034-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-233-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162914
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3412 SDG#: DE034-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.85	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.4	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	1.4	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19	J	6.8	20		1
10138	Fluoranthene	206-44-0	1.8	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.1	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	1.3	J	0.76	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	190	J	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-233-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162914
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3412 SDG#: DE034-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.39		1
01363	p,p-DDT	50-29-3	0.22	U	0.22	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5		2
10225	Aroclor 5460	11126-42-4	3.2	J	2.3	7.5		2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.9		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.9		2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.9		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.9		2
10225	PCB-1248	12672-29-6	8.6		0.75	3.9		2
10225	PCB-1254	11097-69-1	7.3		0.75	3.9		2
10225	PCB-1260	11096-82-5	3.4	J	0.75	3.9		2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.9		2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.9		2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,000		5.54	22.0		1
07914	Boron	7440-42-8	13.9		0.981	5.51		1
01650	Calcium	7440-70-2	41,700		6.76	22.0		1
01654	Iron	7439-89-6	27,400		5.19	22.0		1
01656	Lithium	7439-93-2	28.2		0.24	2.2		1
01657	Magnesium	7439-95-4	6,950		2.80	11.0		1
06958	Manganese	7439-96-5	330		0.0860	0.551		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-233-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162914
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3412 SDG#: DE034-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	518		0.617	11.0		1
01662	Potassium	7440-09-7	4,630		19.8	55.1		1
01667	Sodium	7440-23-5	168		41.1	110		1
07968	Strontium	7440-24-6	83.7		0.0683	0.551		1
06969	Tin	7440-31-5	1.99	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,580		0.427	1.12		1
10146	Zirconium	7440-67-7	3.70	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0837	J	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.21		0.0674	0.450		2
06126	Barium	7440-39-3	120		0.121	0.450		2
06127	Beryllium	7440-41-7	0.666		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.374		0.0405	0.112		2
06131	Chromium	7440-47-3	30.4		0.135	0.450		2
06132	Cobalt	7440-48-4	10.0		0.0225	0.112		2
06133	Copper	7440-50-8	14.6		0.0742	0.450		2
06135	Lead	7439-92-1	10.6		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.543		0.0562	0.112		2
06139	Nickel	7440-02-0	19.5		0.112	0.450		2
06141	Selenium	7782-49-2	0.217	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0386	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.377		0.0337	0.112		2
06148	Vanadium	7440-62-2	45.7		0.0247	0.112		2
06149	Zinc	7440-66-6	88.9		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	418		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-233-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162914
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3412 SDG#: DE034-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.51	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 18:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 15:23	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 09:30	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 23:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 14:10	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-233-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162914
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3412 SDG#: DE034-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 06:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 13:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/28/2010 01:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/31/2010 10:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-299-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162915
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3413 SDG#: DE034-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-299-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162915
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3413 SDG#: DE034-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.99	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	2.4		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	7.0	21		1
10138	Fluoranthene	206-44-0	3.4		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.5	J	0.77	1.9		1
10138	Pyrene	129-00-0	2.5		0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	150	J	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-299-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162915
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3413 SDG#: DE034-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.076	U	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.14	J	0.076	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.10	J	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.074	J	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.44		0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The LCS recovery for p,p-DDT and methoxychlor are outside the QC limits. Results from the reextraction are within the limits for p,p-DDT and methoxychlor. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts for p,p-DDT and methoxychlor.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,400		5.71	22.7		1
07914	Boron	7440-42-8	15.5		1.01	5.68		1
01650	Calcium	7440-70-2	79,500		34.8	114		5
01654	Iron	7439-89-6	27,700		5.35	22.7		1
01656	Lithium	7439-93-2	24.1		0.25	2.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-299-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162915
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3413 SDG#: DE034-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,030		2.89	11.4		1
06958	Manganese	7439-96-5	332		0.0886	0.568		1
10145	Phosphorus	7723-14-0	527		0.636	11.4		1
01662	Potassium	7440-09-7	4,620		20.4	56.8		1
01667	Sodium	7440-23-5	146		42.4	114		1
07968	Strontium	7440-24-6	134		0.0704	0.568		1
06969	Tin	7440-31-5	1.21	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,410		0.432	1.14		1
10146	Zirconium	7440-67-7	3.16	J	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0688	U	0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.85		0.0688	0.459		2
06126	Barium	7440-39-3	131		0.124	0.459		2
06127	Beryllium	7440-41-7	0.677		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.348		0.0413	0.115		2
06131	Chromium	7440-47-3	31.3		0.138	0.459		2
06132	Cobalt	7440-48-4	9.75		0.0229	0.115		2
06133	Copper	7440-50-8	15.9		0.0757	0.459		2
06135	Lead	7439-92-1	10.4		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.441		0.0574	0.115		2
06139	Nickel	7440-02-0	21.0		0.115	0.459		2
06141	Selenium	7782-49-2	0.258	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0302	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.371		0.0344	0.115		2
06148	Vanadium	7440-62-2	46.5		0.0252	0.115		2
06149	Zinc	7440-66-6	79.1		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	403		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-299-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162915
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3413 SDG#: DE034-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.51	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 19:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 15:56	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 09:57	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/23/2010 23:42	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 14:29	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/20/2010 13:05	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-299-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162915
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3413 SDG#: DE034-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 20:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 07:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 13:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201A	12/28/2010 02:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/31/2010 10:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201A	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-300-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162916
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3414 SDG#: DE034-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-300-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162916
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3414 SDG#: DE034-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	11	J	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	2.4		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	35		7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.3	U	5.3	11		1
10401	2,4-DB	94-82-6	0.75	U	0.75	2.1		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4		1
10401	Dinoseb	88-85-7	0.97	U	0.97	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.97	U	0.97	2.1		1
10401	MCPA	94-74-6	92	U	92	300		1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300		1
10401	2,4,5-T	93-76-5	0.099	U	0.099	0.21		1
10401	2,4,5-TP	93-72-1	0.090	U	0.090	0.21		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.080	U	0.080	0.20		1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-300-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162916
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3414 SDG#: DE034-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20		1
01363	Chlordane	57-74-9	0.97	U	0.97	4.1		1
01363	p,p-DDD	72-54-8	0.080	U	0.080	0.41		1
01363	p,p-DDE	72-55-9	0.080	U	0.080	0.41		1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.41		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.080	U	0.080	0.41		1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20		1
01363	Endosulfan II	33213-65-9	0.080	U	0.080	0.41		1
01363	Endosulfan Sulfate	1031-07-8	0.080	U	0.080	0.41		1
01363	Endrin	72-20-8	0.080	U	0.080	0.41		1
01363	Endrin Aldehyde	7421-93-4	0.080	U	0.080	0.41		1
01363	Endrin Ketone	53494-70-5	0.080	U	0.080	0.41		1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20		1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0		1
01363	Mirex	2385-85-5	0.080	U	0.080	0.41		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.1		1
10225	PCB-1232	11141-16-5	0.63	U	0.63	2.1		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.1		1
10225	PCB-1248	12672-29-6	2.4		0.40	2.1		1
10225	PCB-1254	11097-69-1	1.2	J	0.40	2.1		1
10225	PCB-1260	11096-82-5	1.0	J	0.40	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		6.01	23.9		1
07914	Boron	7440-42-8	16.0		1.06	5.97		1
01650	Calcium	7440-70-2	63,500		7.32	23.9		1
01654	Iron	7439-89-6	29,700		5.63	23.9		1
01656	Lithium	7439-93-2	26.6		0.26	2.4		1
01657	Magnesium	7439-95-4	7,450		3.03	11.9		1
06958	Manganese	7439-96-5	343		0.0932	0.597		1

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Sample Description: **SL-300-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162916
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3414 SDG#: DE034-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	540		0.669	11.9		1
01662	Potassium	7440-09-7	4,990		21.5	59.7		1
01667	Sodium	7440-23-5	163		44.5	119		1
07968	Strontium	7440-24-6	120		0.0740	0.597		1
06969	Tin	7440-31-5	1.41	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,540		0.449	1.18		1
10146	Zirconium	7440-67-7	3.15	J	1.00	5.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0696	U	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.39		0.0696	0.464		2
06126	Barium	7440-39-3	120		0.125	0.464		2
06127	Beryllium	7440-41-7	0.658		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.349		0.0418	0.116		2
06131	Chromium	7440-47-3	29.7		0.139	0.464		2
06132	Cobalt	7440-48-4	9.12		0.0232	0.116		2
06133	Copper	7440-50-8	14.8		0.0766	0.464		2
06135	Lead	7439-92-1	9.92		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.408		0.0580	0.116		2
06139	Nickel	7440-02-0	18.5		0.116	0.464		2
06141	Selenium	7782-49-2	0.229	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0190	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.363		0.0348	0.116		2
06148	Vanadium	7440-62-2	49.3		0.0255	0.116		2
06149	Zinc	7440-66-6	81.3		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0053	J	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	425		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: **SL-300-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162916
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3414 SDG#: DE034-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.09	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	17.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 19:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 16:30	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 10:25	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/24/2010 01:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 14:47	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-300-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162916
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3414 SDG#: DE034-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 21:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 07:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 14:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 03:52	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/31/2010 11:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182102B	12/14/2010 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039402B	12/14/2010 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162917
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3415 SDG#: DE034-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	900	U	900	2,700		1
04688	Benzidine	92-87-5	6,300	U	6,300	18,000		1
04688	Benzo(a)anthracene	56-55-3	97	J	90	900		1
04688	Benzo(a)pyrene	50-32-8	240	J	90	900		1
04688	Benzo(b)fluoranthene	205-99-2	130	J	90	900		1
04688	Benzo(g,h,i)perylene	191-24-2	120	J	90	900		1
04688	Benzoic acid	65-85-0	900	U	900	2,700		1
04688	Benzyl alcohol	100-51-6	900	U	900	2,700		1
04688	4-Bromophenyl-phenylether	101-55-3	90	U	90	900		1
04688	Carbazole	86-74-8	90	U	90	900		1
04688	4-Chloro-3-methylphenol	59-50-7	180	U	180	900		1
04688	4-Chloroaniline	106-47-8	360	U	360	900		1
04688	bis(2-Chloroethoxy)methane	111-91-1	90	U	90	900		1
04688	bis(2-Chloroethyl)ether	111-44-4	90	U	90	900		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	90	U	90	900		1
04688	2-Chloronaphthalene	91-58-7	90	U	90	900		1
04688	2-Chlorophenol	95-57-8	90	U	90	900		1
04688	4-Chlorophenyl-phenylether	7005-72-3	180	U	180	900		1
04688	Chrysene	218-01-9	330	J	90	900		1
04688	Dibenzofuran	132-64-9	90	U	90	900		1
04688	1,2-Dichlorobenzene	95-50-1	90	U	90	900		1
04688	1,3-Dichlorobenzene	541-73-1	90	U	90	900		1
04688	1,4-Dichlorobenzene	106-46-7	90	U	90	900		1
04688	3,3'-Dichlorobenzidine	91-94-1	540	U	540	1,800		1
04688	2,4-Dichlorophenol	120-83-2	90	U	90	900		1
04688	2,4-Dimethylphenol	105-67-9	180	U	180	900		1
04688	3,5-Dimethylphenol	108-68-9	180	U	180	900		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	900	U	900	2,700		1
04688	2,4-Dinitrophenol	51-28-5	3,600	U	3,600	11,000		1
04688	2,4-Dinitrotoluene	121-14-2	180	U	180	900		1
04688	2,6-Dinitrotoluene	606-20-2	90	U	90	900		1
04688	1,2-Diphenylhydrazine	122-66-7	90	U	90	900		1
04688	Hexachlorobenzene	118-74-1	90	U	90	900		1
04688	Hexachlorobutadiene	87-68-3	360	U	360	900		1
04688	Hexachlorocyclopentadiene	77-47-4	900	U	900	2,700		1
04688	Hexachloroethane	67-72-1	90	U	90	900		1
04688	Isophorone	78-59-1	90	U	90	900		1
04688	2-Methylphenol	95-48-7	180	U	180	900		1
04688	4-Methylphenol	106-44-5	180	U	180	900		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	90	U	90	900		1
04688	3-Nitroaniline	99-09-2	180	U	180	900		1
04688	4-Nitroaniline	100-01-6	360	U	360	900		1
04688	Nitrobenzene	98-95-3	90	U	90	900		1
04688	2-Nitrophenol	88-75-5	90	U	90	900		1
04688	4-Nitrophenol	100-02-7	900	U	900	2,700		1
04688	N-Nitroso-di-n-propylamine	621-64-7	90	U	90	900		1
04688	N-Nitrosodiphenylamine	86-30-6	90	U	90	900		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-067-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162917
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3415 SDG#: DE034-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	900	U	900	2,700		1
04688	Phenol	108-95-2	90	U	90	900		1
04688	Pyrene	129-00-0	98	J	90	900		1
04688	1,2,4-Trichlorobenzene	120-82-1	90	U	90	900		1
04688	2,4,5-Trichlorophenol	95-95-4	180	U	180	900		1
04688	2,4,6-Trichlorophenol	88-06-2	180	U	180	900		1
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		1
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		1
10138	Anthracene	120-12-7	2.0	J	1.8	9.0		1
10138	Benzo(k)fluoranthene	207-08-9	27		3.6	9.0		1
10138	Butylbenzylphthalate	85-68-7	32	U	32	97		1
10138	Di-n-butylphthalate	84-74-2	32	U	32	97		1
10138	Dibenz(a,h)anthracene	53-70-3	6.2	J	3.6	9.0		1
10138	Diethylphthalate	84-66-2	32	U	32	97		1
10138	Dimethylphthalate	131-11-3	32	U	32	97		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	35	J	32	97		1
10138	Fluoranthene	206-44-0	97		3.6	9.0		1
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	15		3.6	9.0		1
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		1
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		1
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		1
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		1
10138	Di-n-octylphthalate	117-84-0	32	U	32	97		1
10138	Phenanthrene	85-01-8	19		3.6	9.0		1
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	130	U	130	270		1
10401	MCPP (Mecoprop)	93-65-2	340		81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent

Sample Description: SL-067-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162917
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3415 SDG#: DE034-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	1.7	U	1.7	1.7		1
01363	p,p-DDT	50-29-3	1.3	U	1.3	1.3		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.43	U	0.43	0.43		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	1.8	U	1.8	1.8		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.38	U	0.38	0.38		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	10		0.36	1.8		1
10225	PCB-1254	11097-69-1	4.6		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.73	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,310		5.37	21.3		1
07914	Boron	7440-42-8	9.20		0.950	5.33		1

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Sample Description: SL-067-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162917
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3415 SDG#: DE034-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	17,800		6.54	21.3		1
01654	Iron	7439-89-6	13,700		5.03	21.3		1
01656	Lithium	7439-93-2	13.4		0.23	2.1		1
01657	Magnesium	7439-95-4	3,260		2.71	10.7		1
06958	Manganese	7439-96-5	195		0.0832	0.533		1
10145	Phosphorus	7723-14-0	410		0.597	10.7		1
01662	Potassium	7440-09-7	2,410		19.2	53.3		1
01667	Sodium	7440-23-5	128		39.8	107		1
07968	Strontium	7440-24-6	39.5		0.0661	0.533		1
06969	Tin	7440-31-5	1.39	J	1.07	10.7		1
06970	Titanium	7440-32-6	979		0.398	1.05		1
10146	Zirconium	7440-67-7	1.83	J	0.896	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0647	U	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.44		0.0647	0.431		2
06126	Barium	7440-39-3	83.9		0.116	0.431		2
06127	Beryllium	7440-41-7	0.383		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.333		0.0388	0.108		2
06131	Chromium	7440-47-3	20.1		0.129	0.431		2
06132	Cobalt	7440-48-4	6.53		0.0216	0.108		2
06133	Copper	7440-50-8	12.9		0.0711	0.431		2
06135	Lead	7439-92-1	9.23		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.641		0.0539	0.108		2
06139	Nickel	7440-02-0	13.2		0.108	0.431		2
06141	Selenium	7782-49-2	0.148	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0257	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.207		0.0323	0.108		2
06148	Vanadium	7440-62-2	25.1		0.0237	0.108		2
06149	Zinc	7440-66-6	88.4		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-067-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162917
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3415 SDG#: DE034-15

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	389	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.50	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	7.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 19:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 17:04	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 11:47	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/24/2010 01:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 15:06	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162917
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3415 SDG#: DE034-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 21:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 07:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 14:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 04:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10359243202A	12/31/2010 11:30	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103A	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403A	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162918
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3416 SDG#: DE034-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-059-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162918
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3416 SDG#: DE034-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.89	J	0.71	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	87	U	87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-059-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162918
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3416 SDG#: DE034-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.076	U	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	2.0		1
10225	PCB-1248	12672-29-6	2.0		0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.90	J	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,200		5.77	23.0		1
07914	Boron	7440-42-8	15.9		1.02	5.74		1
01650	Calcium	7440-70-2	76,000		35.2	115		5
01654	Iron	7439-89-6	29,700		5.41	23.0		1
01656	Lithium	7439-93-2	26.1		0.25	2.3		1
01657	Magnesium	7439-95-4	7,330		2.92	11.5		1
06958	Manganese	7439-96-5	345		0.0896	0.574		1
10145	Phosphorus	7723-14-0	525		0.643	11.5		1
01662	Potassium	7440-09-7	4,540		20.7	57.4		1
01667	Sodium	7440-23-5	170		42.8	115		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162918
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3416 SDG#: DE034-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	136		0.0712	0.574		1
06969	Tin	7440-31-5	1.35	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,460		0.428	1.13		1
10146	Zirconium	7440-67-7	3.57	J	0.964	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0669	U	0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.05		0.0669	0.446		2
06126	Barium	7440-39-3	121		0.120	0.446		2
06127	Beryllium	7440-41-7	0.642		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.352		0.0401	0.111		2
06131	Chromium	7440-47-3	29.1		0.134	0.446		2
06132	Cobalt	7440-48-4	9.45		0.0223	0.111		2
06133	Copper	7440-50-8	14.5		0.0736	0.446		2
06135	Lead	7439-92-1	9.63		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.353		0.0557	0.111		2
06139	Nickel	7440-02-0	18.6		0.111	0.446		2
06141	Selenium	7782-49-2	0.223	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0325	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.377		0.0334	0.111		2
06148	Vanadium	7440-62-2	46.2		0.0245	0.111		2
06149	Zinc	7440-66-6	74.1		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	424		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.43		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162918
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3416 SDG#: DE034-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 20:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 17:39	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 12:15	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/24/2010 02:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 15:24	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/20/2010 13:08	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 21:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162918
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3416 SDG#: DE034-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 07:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 14:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 04:40	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/31/2010 11:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103A	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403A	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162919
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3417 SDG#: DE034-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-065-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162919
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3417 SDG#: DE034-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.87	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.60	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.3	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1

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Sample Description: SL-065-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162919
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3417 SDG#: DE034-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.38		1
01363	p,p-DDE	72-55-9	0.98	U	0.98	0.98		1
01363	p,p-DDT	50-29-3	0.84	U	0.84	0.84		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.28	U	0.28	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	1.7	U	1.7	1.7		5
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.29	U	0.29	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.3		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.3		2
10225	Aroclor 5460	11126-42-4	2.2	U	2.2	7.3		2
10225	PCB-1016	12674-11-2	0.73	U	0.73	3.8		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.8		2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.8		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.8		2
10225	PCB-1248	12672-29-6	15		0.73	3.8		2
10225	PCB-1254	11097-69-1	10		0.73	3.8		2
10225	PCB-1260	11096-82-5	3.1	J	0.73	3.8		2
10225	PCB-1262	37324-23-5	0.73	U	0.73	3.8		2
10225	PCB-1268	11100-14-4	0.73	U	0.73	3.8		2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,000		5.50	21.9		1
07914	Boron	7440-42-8	13.7		0.973	5.46		1
01650	Calcium	7440-70-2	44,500		6.70	21.9		1
01654	Iron	7439-89-6	29,100		5.15	21.9		1
01656	Lithium	7439-93-2	25.0		0.24	2.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-065-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162919
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3417 SDG#: DE034-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	6,320		2.78	10.9		1
06958	Manganese	7439-96-5	340		0.0852	0.546		1
10145	Phosphorus	7723-14-0	499		0.612	10.9		1
01662	Potassium	7440-09-7	4,160		19.7	54.6		1
01667	Sodium	7440-23-5	421		40.8	109		1
07968	Strontium	7440-24-6	88.2		0.0678	0.546		1
06969	Tin	7440-31-5	2.08	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,360		0.407	1.07		1
10146	Zirconium	7440-67-7	2.10	J	0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0643	U	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.04		0.0643	0.429		2
06126	Barium	7440-39-3	116		0.116	0.429		2
06127	Beryllium	7440-41-7	0.547		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.298		0.0386	0.107		2
06131	Chromium	7440-47-3	24.2		0.129	0.429		2
06132	Cobalt	7440-48-4	7.63		0.0214	0.107		2
06133	Copper	7440-50-8	13.1		0.0707	0.429		2
06135	Lead	7439-92-1	8.80		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.460		0.0536	0.107		2
06139	Nickel	7440-02-0	16.3		0.107	0.429		2
06141	Selenium	7782-49-2	0.178	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0392	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.312		0.0321	0.107		2
06148	Vanadium	7440-62-2	39.3		0.0236	0.107		2
06149	Zinc	7440-66-6	72.4		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	443		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-065-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162919
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3417 SDG#: DE034-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.15	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/04/2011 20:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 18:13	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 12:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/24/2010 02:18	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103500011A	12/24/2010 02:33	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 15:43	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	103500011A	12/16/2010 16:50	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162919
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3417 SDG#: DE034-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 21:14	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 07:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 14:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 05:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/31/2010 11:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103A	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403A	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162920
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3418 SDG#: DE034-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(b)fluoranthene	205-99-2	270		19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162920
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3418 SDG#: DE034-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	16	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.68	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.71	U	0.71	1.9		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	1.9		1
10401	MCPA	94-74-6	110	J	87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-061-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162920
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3418 SDG#: DE034-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.28	U	0.28	0.39		1
01363	p,p-DDT	50-29-3	0.55	U	0.55	0.55		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.077	U	0.077	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	12		0.38	1.9		1
10225	PCB-1254	11097-69-1	5.5		0.38	1.9		1
10225	PCB-1260	11096-82-5	3.3		0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,600		5.59	22.2		1
07914	Boron	7440-42-8	14.7		0.990	5.56		1
01650	Calcium	7440-70-2	42,700		6.82	22.2		1
01654	Iron	7439-89-6	27,000		5.24	22.2		1
01656	Lithium	7439-93-2	25.3		0.24	2.2		1
01657	Magnesium	7439-95-4	6,610		2.82	11.1		1
06958	Manganese	7439-96-5	323		0.0867	0.556		1

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Sample Description: **SL-061-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162920
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3418 SDG#: DE034-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	502		0.623	11.1		1
01662	Potassium	7440-09-7	4,240		20.0	55.6		1
01667	Sodium	7440-23-5	149		41.5	111		1
07968	Strontium	7440-24-6	89.5		0.0690	0.556		1
06969	Tin	7440-31-5	2.04	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,420		0.431	1.13		1
10146	Zirconium	7440-67-7	3.33	J	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0703	J	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.71		0.0674	0.449		2
06126	Barium	7440-39-3	127		0.121	0.449		2
06127	Beryllium	7440-41-7	0.664		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.393		0.0404	0.112		2
06131	Chromium	7440-47-3	31.5		0.135	0.449		2
06132	Cobalt	7440-48-4	9.87		0.0225	0.112		2
06133	Copper	7440-50-8	15.7		0.0741	0.449		2
06135	Lead	7439-92-1	11.3		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.618		0.0562	0.112		2
06139	Nickel	7440-02-0	19.9		0.112	0.449		2
06141	Selenium	7782-49-2	0.221	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0260	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.387		0.0337	0.112		2
06148	Vanadium	7440-62-2	45.1		0.0247	0.112		2
06149	Zinc	7440-66-6	91.8		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0175	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	418		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162920
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3418 SDG#: DE034-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/10/2011 06:24	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 18:48	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 13:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 18:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 16:01	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162920
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3418 SDG#: DE034-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 21:18	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 07:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362202A	12/30/2010 15:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 05:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10359243202A	12/31/2010 12:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362202A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103A	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403A	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162921
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3419 SDG#: DE034-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(b)fluoranthene	205-99-2	280		20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1

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Sample Description: SL-070-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162921
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3419 SDG#: DE034-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.59	J	0.39	2.0		1
10138	Anthracene	120-12-7	2.5		0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	6.3		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	8.2		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	4.4		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	7.4		0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.5	J	7.1	21		1
10138	Chrysene	218-01-9	15		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	20	J	7.1	21		1
10138	Fluoranthene	206-44-0	28		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.1		0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	9.3		0.79	2.0		1
10138	Pyrene	129-00-0	18		0.79	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	160	U	160	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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Sample Description: SL-070-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162921
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3419 SDG#: DE034-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.078	U	0.078	0.40		1
01363	p,p-DDT	50-29-3	0.37	U	0.37	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20		1
01363	Dieldrin	60-57-1	0.17	U	0.17	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.092	U	0.092	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.090	U	0.090	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.11	J	0.11	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.24	U	0.24	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.4	U	2.4	7.8		2
10225	Aroclor 5442	12642-23-8	2.4	U	2.4	7.8		2
10225	Aroclor 5460	11126-42-4	2.4	U	2.4	7.8		2
10225	PCB-1016	12674-11-2	0.78	U	0.78	4.0		2
10225	PCB-1221	11104-28-2	1.2	U	1.2	4.0		2
10225	PCB-1232	11141-16-5	1.2	U	1.2	4.0		2
10225	PCB-1242	53469-21-9	1.2	U	1.2	4.0		2
10225	PCB-1248	12672-29-6	15		0.78	4.0		2
10225	PCB-1254	11097-69-1	15		0.78	4.0		2
10225	PCB-1260	11096-82-5	9.6		0.78	4.0		2
10225	PCB-1262	37324-23-5	0.78	U	0.78	4.0		2
10225	PCB-1268	11100-14-4	0.78	U	0.78	4.0		2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		5.87	23.3		1

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Sample Description: SL-070-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162921
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3419 SDG#: DE034-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	15.9		1.04	5.83		1
01650	Calcium	7440-70-2	72,300		35.7	117		5
01654	Iron	7439-89-6	26,500		5.49	23.3		1
01656	Lithium	7439-93-2	24.0		0.26	2.3		1
01657	Magnesium	7439-95-4	6,880		2.96	11.7		1
06958	Manganese	7439-96-5	329		0.0910	0.583		1
10145	Phosphorus	7723-14-0	519		0.653	11.7		1
01662	Potassium	7440-09-7	4,450		21.0	58.3		1
01667	Sodium	7440-23-5	291		43.5	117		1
07968	Strontium	7440-24-6	126		0.0723	0.583		1
06969	Tin	7440-31-5	1.26	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,370		0.430	1.13		1
10146	Zirconium	7440-67-7	3.14	J	0.980	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0788	J	0.0693	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.87		0.0693	0.462		2
06126	Barium	7440-39-3	125		0.125	0.462		2
06127	Beryllium	7440-41-7	0.620		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.355		0.0416	0.115		2
06131	Chromium	7440-47-3	28.8		0.139	0.462		2
06132	Cobalt	7440-48-4	9.76		0.0231	0.115		2
06133	Copper	7440-50-8	15.3		0.0762	0.462		2
06135	Lead	7439-92-1	9.85		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.447		0.0577	0.115		2
06139	Nickel	7440-02-0	20.6		0.115	0.462		2
06141	Selenium	7782-49-2	0.243	J	0.0462	0.462		2
06142	Silver	7440-22-4	0.0307	J	0.0139	0.115		2
06145	Thallium	7440-28-0	0.357		0.0346	0.115		2
06148	Vanadium	7440-62-2	45.1		0.0254	0.115		2
06149	Zinc	7440-66-6	79.6		0.647	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0090	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.24	1.2		1

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Sample Description: **SL-070-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162921
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3419 SDG#: DE034-19*

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	421	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.52	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	15.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10349SLJ026	01/10/2011 06:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLG026	12/29/2010 19:22	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLG026	12/16/2010 07:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10349SLJ026	12/16/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103490015A	12/18/2010 13:37	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 18:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500025A	12/21/2010 16:20	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500025A	12/17/2010 00:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103490015A	12/16/2010 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103495708003	12/20/2010 13:12	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-070-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162921
LLI Group # 1225037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/10/2010 09:15
Reported: 01/21/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3419 SDG#: DE034-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 21:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103495708003	12/18/2010 00:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026003D	12/23/2010 15:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026003C	12/23/2010 15:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026003B	12/23/2010 15:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026003A	12/26/2010 07:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026003A	12/23/2010 15:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711003	12/20/2010 05:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708003	12/16/2010 07:00	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026003	12/16/2010 07:35	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711003	12/16/2010 08:55	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010 05:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 05:52	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10359243202A	12/31/2010 12:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103A	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403A	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10359243202A	12/25/2010 22:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103482AA	Sample number(s): 6162903-6162904									
Acetone	6.7	U	6.7	8.0	ug/kg	183		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	100		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	91		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	97		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	95		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	72		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	133		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	97		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	92		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	77		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.22	J	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	72		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	101		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	54		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	99		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	100		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	92		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	87		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	98		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	78		61-134		
Methylene Chloride	1.3	J	0.24	4.0	ug/kg	99		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	97		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	96		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	76		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E103493AA	Sample number(s): 6162903-6162904									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	112	70-130	4	30
Batch number: 10349SLE026	Sample number(s): 6162903-6162904									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	99		70-130		
Batch number: 10349SLG026	Sample number(s): 6162903-6162921									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	102		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	100		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	97		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	116		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	102		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	119		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	108		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	130		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	100		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	105		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 10349SLJ026	Sample number(s): 6162903-6162921									
Aniline	170 U		170.	500	ug/kg	70		10-107		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzidine	1,200 U		1,200.	3,300	ug/kg	48		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	94		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	86		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	88		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	79		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	90		67-125		
Benzoic acid	170 U		170.	500	ug/kg	101		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	107		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	96		79-112		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	98		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	103		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	91		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	106		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	80		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	39		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	104		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	102		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	75		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
Fluoranthene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	83		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	80		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	110		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	108		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	103		63-107		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	69		35-106		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	101		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 10348A34A	Sample number(s): 6162903-6162904									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	75	69	67-119	8	30
Batch number: 103480012A	Sample number(s): 6162903-6162904									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100	U	100.	300	ug/kg	95	96	54-134	1	30
2,4-Diamino-6-nitrotoluene	100	U	100.	300	ug/kg	95	96	54-134	1	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	110		80-120		
HMX	130	U	130.	380	ug/kg	93		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	105		80-120		
Nitroglycerin	1,000	U	1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100	U	100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130	U	130.	150	ug/kg	108		73-127		
4-Nitrotoluene	100	U	100.	150	ug/kg	107		80-120		
PETN	1,000	U	1,000.	3,000	ug/kg	105		80-120		
RDX	63	U	63.	150	ug/kg	105		75-131		
Tetryl	77	U	77.	150	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	109		80-120		
Batch number: 103480007A	Sample number(s): 6162903-6162904									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	99		80-126		
Batch number: 103490015A	Sample number(s): 6162905-6162921									
2,4-D	1.2	U	1.2	3.6	ug/kg	109		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	69		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	99		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	99		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	6*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	144*		60-141		
MCPA	76	U	76.	250	ug/kg	97		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	101		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	95		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	88		48-138		
Batch number: 103500011A	Sample number(s): 6162905-6162919									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aldrin	0.066	U	0.066	0.17	ug/kg	94		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	112		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	118		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	131		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	100		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	134*		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	99		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	112		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	95		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	113		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	121		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	98		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	116		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	106		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	141*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103500025A	Sample number(s): 6162903-6162921									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	62*	65*	75-125	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103510029A	Sample number(s): 6162920-6162921									
Aldrin	0.066	U	0.066	0.17	ug/kg	87		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	103		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	106		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	104		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	105		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	101		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	97		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	100		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	111		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	118		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	95		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	113		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	121		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	131*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103470024A	Sample number(s): 6162903-6162904									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	89		66-113		
Batch number: 103480003A	Sample number(s): 6162903-6162904									
Ethanol	100	U	100.	500	ug/kg	86		75-112		
Isopropanol	100	U	100.	500	ug/kg	88		75-125		
Methanol	100	U	100.	500	ug/kg	87		75-134		
Batch number: 103480019A	Sample number(s): 6162903-6162904									
Diethylene glycol	5.0	U	5.0	13	mg/kg	92		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	85		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	93		75-125		
Batch number: 103550026A	Sample number(s): 6162903-6162904									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
Batch number: 103491026003A	Sample number(s): 6162903-6162921									
Antimony	0.0588	U	0.0588	0.196	mg/kg	50		11-208		
Arsenic	0.0588	U	0.0588	0.392	mg/kg	91		80-120		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	95		82-118		
Cadmium	0.0353	U	0.0353	0.0980	mg/kg	91		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	85		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	91		82-118		
Copper	0.0647	U	0.0647	0.392	mg/kg	91		80-120		
Lead	0.0102	U	0.0102	0.196	mg/kg	99		80-120		
Nickel	0.0980	U	0.0980	0.392	mg/kg	97		80-120		
Silver	0.0118	U	0.0118	0.0980	mg/kg	93		66-134		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	95		81-119		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	94		90-110		
Zinc	0.549	U	0.549	2.94	mg/kg	91		78-122		
Batch number: 103491026003B	Sample number(s): 6162903-6162921									
Selenium	0.0392	U	0.0392	0.392	mg/kg	91		79-122		
Batch number: 103491026003C	Sample number(s): 6162903-6162921									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	90		78-122		
Batch number: 103491026003D	Sample number(s): 6162903-6162921									
Barium	0.106	U	0.106	0.392	mg/kg	96		79-121		
Batch number: 103495708003	Sample number(s): 6162903-6162921									
Aluminum	4.98	U	4.98	19.8	mg/kg	84		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	88		78-110		
Calcium	6.07	U	6.07	19.8	mg/kg	98		88-110		
Iron	4.66	U	4.66	19.8	mg/kg	85		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	92		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	97		81-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.90	J	0.554	9.90	mg/kg	101		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	91		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	93		87-110		
Strontium	0.0614	U	0.0614	0.495	mg/kg	102		79-121		
Tin	1.82	J	0.990	9.90	mg/kg	98		90-114		
Zirconium	0.832	U	0.832	4.95	mg/kg	101		80-120		
Batch number: 103495711003	Sample number(s): 6162903-6162921									
Mercury	0.0028	U	0.0028	0.0979	mg/kg	101		88-123		
Batch number: 103545708005	Sample number(s): 6162903-6162921									
Titanium	0.380	U	0.380	1.00	mg/kg	110		80-120		
Batch number: 10356356201A	Sample number(s): 6162903-6162905									
7a Perchlorate EPA 314.0	14.6	J	9.0	30.0	ug/kg	97		85-115		
Batch number: 10357102201A	Sample number(s): 6162903-6162904									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 10357357201A	Sample number(s): 6162906-6162915									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10357357201B	Sample number(s): 6162916-6162921									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10359243202A	Sample number(s): 6162903-6162921									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 10361361201A	Sample number(s): 6162903-6162910									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 10362362201B	Sample number(s): 6162921									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
Batch number: 10362362202A	Sample number(s): 6162911-6162920									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
Batch number: 10348039402A	Sample number(s): 6162903-6162905									
22a pH by 9045C						100		95-105		
Batch number: 10348039402B	Sample number(s): 6162906-6162916									
22a pH by 9045C						100		95-105		
Batch number: 10348039403A	Sample number(s): 6162917-6162921									
22a pH by 9045C						100		95-105		
Batch number: 10348182102A	Sample number(s): 6162903-6162905									
Oxidation Reduction Potential						99		98-102		
Batch number: 10348182102B	Sample number(s): 6162906-6162916									
Oxidation Reduction Potential						99		98-102		
Batch number: 10348182103A	Sample number(s): 6162917-6162921									
Oxidation Reduction Potential						99		98-102		
Batch number: 10349162401A	Sample number(s): 6162905-6162914									
28a Moisture Content by 160.3						100		80-120		

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10349162401B	Sample number(s): 6162915-6162921								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10357162401A	Sample number(s): 6162903-6162904								
28a Moisture Content by 160.3					99		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103482AA	Sample number(s): 6162903-6162904 UNSPK: P163871								
Acetone	169	181	15-210	3	30				
Benzene	99	95	55-143	8	30				
Bromobenzene	87	77	43-139	16	30				
Bromochloromethane	97	91	60-137	10	30				
Bromodichloromethane	96	90	53-136	10	30				
Bromoform	85	81	38-124	9	30				
Bromomethane	72	64	42-168	16	30				
2-Butanone	114	120	37-163	1	30				
n-Butylbenzene	82	67	30-146	24	30				
sec-Butylbenzene	87	73	33-157	21	30				
tert-Butylbenzene	88	74	41-152	20	30				
Carbon Tetrachloride	102	96	45-153	10	30				
Chlorobenzene	92	83	49-135	15	30				
Chloroethane	78	68	39-152	18	30				
2-Chloroethyl Vinyl Ether	84	89	32-139	2	30				
Chloroform	103	96	61-142	10	30				
Chloromethane	77	72	51-163	10	30				
2-Chlorotoluene	89	77	42-146	18	30				
4-Chlorotoluene	88	75	39-145	19	30				
Chlorotrifluoroethene	104	104	70-130	2	30				
1,2-Dibromo-3-chloropropane	79	77	30-139	7	30				
Dibromochloromethane	93	88	51-128	10	30				
1,2-Dibromoethane	88	86	54-129	6	30				
Dibromomethane	94	90	57-130	8	30				
1,2-Dichlorobenzene	83	71	36-133	19	30				
1,3-Dichlorobenzene	81	69	34-134	19	30				
1,4-Dichlorobenzene	82	70	35-136	19	30				
Dichlorodifluoromethane	53	50	26-151	11	30				
1,1-Dichloroethane	101	96	63-142	9	30				
1,2-Dichloroethane	98	94	68-131	8	30				
1,1-Dichloroethene	101	97	61-149	7	30				
cis-1,2-Dichloroethene	98	93	60-136	9	30				
trans-1,2-Dichloroethene	99	92	59-142	11	30				
1,2-Dichloropropane	98	93	62-135	9	30				
1,3-Dichloropropane	94	90	58-129	8	30				
2,2-Dichloropropane	96	92	53-147	8	30				
1,1-Dichloropropene	97	93	54-145	8	30				
cis-1,3-Dichloropropene	85	83	51-131	6	30				
trans-1,3-Dichloropropene	87	83	49-129	8	30				

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Quality Control Summary

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Reported: 01/21/11 at 10:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	92	83	44-141	15	30				
Freon 113	102	95	56-156	11	30				
Freon 133a	90	94	70-130	6	30				
Hexachlorobutadiene	65	51	10-155	28	30				
2-Hexanone	76	80	32-160	0	30				
Isopropylbenzene	89	78	38-144	17	30				
p-Isopropyltoluene	85	71	29-152	21	30				
Methyl Tertiary Butyl Ether	88	87	55-129	4	30				
4-Methyl-2-pentanone	66	70	46-139	3	30				
Methylene Chloride	99	87	61-141	16	30				
n-Propylbenzene	92	80	39-157	17	30				
Styrene	89	79	35-134	16	30				
1,1,1,2-Tetrachloroethane	97	87	52-130	15	30				
1,1,2,2-Tetrachloroethane	90	87	40-152	7	30				
Tetrachloroethene	94	84	42-149	14	30				
Toluene	97	90	50-146	11	30				
1,2,3-Trichlorobenzene	60	50	10-140	21	30				
1,2,4-Trichlorobenzene	61	50	10-136	24	30				
1,1,1-Trichloroethane	101	95	64-142	9	30				
1,1,2-Trichloroethane	93	89	54-139	9	30				
Trichloroethene	95	90	53-144	9	30				
Trichlorofluoromethane	88	81	47-163	12	30				
1,2,3-Trichloropropane	90	88	45-154	5	30				
1,2,4-Trimethylbenzene	89	76	37-149	19	30				
1,3,5-Trimethylbenzene	89	77	38-150	18	30				
Vinyl Chloride	78	74	50-154	9	30				
m+p-Xylene	93	82	44-137	16	30				
o-Xylene	88	78	42-137	16	30				
Batch number: E103493AA	Sample number(s): 6162903-6162904 UNSPK: P163871								
1,4-Dioxane	104	95	70-130	9	30				
Batch number: 10349SLE026	Sample number(s): 6162903-6162904 UNSPK: P162828								
N-Nitrosodimethylamine	94	87	70-130	7	30				
Batch number: 10349SLG026	Sample number(s): 6162903-6162921 UNSPK: 6162903								
Acenaphthene	72	95	63-105	27	30				
Acenaphthylene	76	101	55-126	28	30				
Anthracene	80	104	46-136	26	30				
Benzo(a)anthracene	79	104	39-144	27	30				
Benzo(a)pyrene	80	102	34-156	23	30				
Benzo(b)fluoranthene	105	141	43-155	29	30				
Benzo(g,h,i)perylene	32*	39	33-141	20	30				
Benzo(k)fluoranthene	97	119	42-144	21	30				
Butylbenzylphthalate	84	129	73-140	42*	30				
Di-n-butylphthalate	88	113	78-160	25	30				
Chrysene	77	98	29-156	24	30				
Dibenz(a,h)anthracene	45	55	41-130	19	30				
Diethylphthalate	91	119	87-131	27	30				
Dimethylphthalate	83	109	74-118	27	30				
Bis(2-Ethylhexyl)phthalate	85	92	39-167	6	30				
Fluoranthene	83	110	26-166	28	30				
Fluorene	78	101	45-121	26	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	41	51	21-143	22	30				
1-Methylnaphthalene	75	100	72-123	28	30				
2-Methylnaphthalene	68	90	28-121	27	30				
Naphthalene	72	94	61-102	26	30				
N-Nitrosodimethylamine	83	113	48-113	31*	30				
Di-n-octylphthalate	134	185	40-192	27	30				
Phenanthrene	75	98	12-165	26	30				
Pyrene	86	110	15-153	24	30				
Batch number: 10349SLJ026	Sample number(s): 6162903-6162921 UNSPK: 6162903								
Aniline	57	54	14-114	6	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	93	95	65-122	3	30				
Benzo(a)pyrene	86	86	57-126	1	30				
Benzo(b)fluoranthene	85	86	59-125	2	30				
Benzo(g,h,i)perylene	83	84	59-127	2	30				
Benzo(k)fluoranthene	87	88	56-132	1	30				
Benzoic acid	40	34	10-173	15	30				
Benzyl alcohol	104	102	55-123	2	30				
4-Bromophenyl-phenylether	96	97	67-129	2	30				
Di-n-butylphthalate	97	97	67-123	0	30				
Carbazole	89	90	64-120	1	30				
4-Chloro-3-methylphenol	97	97	53-130	0	30				
4-Chloroaniline	56	65	23-95	14	30				
bis(2-Chloroethoxy)methane	94	97	54-117	3	30				
bis(2-Chloroethyl)ether	97	96	60-116	0	30				
bis(2-Chloroisopropyl)ether	96	97	55-142	2	30				
2-Chloronaphthalene	92	82	50-141	11	30				
2-Chlorophenol	104	103	73-121	1	30				
4-Chlorophenyl-phenylether	96	96	64-119	1	30				
Chrysene	95	97	62-128	2	30				
Dibenz(a,h)anthracene	84	85	65-125	1	30				
Dibenzofuran	96	97	71-112	1	30				
1,2-Dichlorobenzene	90	93	66-108	3	30				
1,3-Dichlorobenzene	88	90	63-109	2	30				
1,4-Dichlorobenzene	89	92	53-113	3	30				
3,3'-Dichlorobenzidine	73	72	25-123	0	30				
2,4-Dichlorophenol	104	106	78-117	1	30				
2,4-Dimethylphenol	101	100	56-130	1	30				
3,5-Dimethylphenol	93	94	70-130	1	30				
4,6-Dinitro-2-methylphenol	62	50	10-148	22	30				
2,4-Dinitrophenol	37	24	20-143	44*	30				
2,4-Dinitrotoluene	95	96	57-114	1	30				
2,6-Dinitrotoluene	96	96	69-123	1	30				
1,2-Diphenylhydrazine	102	105	71-129	2	30				
Fluoranthene	88	89	59-122	1	30				
Hexachlorobenzene	97	99	61-111	3	30				
Hexachlorobutadiene	88	91	62-120	4	30				
Hexachlorocyclopentadiene	43	47	10-153	9	30				
Hexachloroethane	87	89	57-109	3	30				
Indeno(1,2,3-cd)pyrene	84	85	61-126	2	30				
Isophorone	96	96	51-118	0	30				
2-Methylphenol	105	104	47-142	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Methylphenol	100	99	55-126	1	30				
2-Nitroaniline	96	95	67-125	1	30				
3-Nitroaniline	89	89	59-122	0	30				
4-Nitroaniline	68	69	52-112	2	30				
Nitrobenzene	95	96	51-114	2	30				
2-Nitrophenol	93	93	74-115	0	30				
4-Nitrophenol	77	75	39-133	2	30				
N-Nitroso-di-n-propylamine	97	96	60-116	1	30				
N-Nitrosodiphenylamine	97	100	86-145	2	30				
Pentachlorophenol	52	52	17-149	0	30				
Phenanthrene	95	96	65-125	1	30				
Phenol	97	97	58-126	0	30				
Pyrene	108	110	51-151	2	30				
1,2,4-Trichlorobenzene	92	95	72-115	3	30				
2,4,5-Trichlorophenol	92	90	34-139	2	30				
2,4,6-Trichlorophenol	93	94	49-140	1	30				
Batch number: 103480012A	Sample number(s): 6162903-6162904 UNSPK: P162818								
4-Amino-2,6-Dinitrotoluene	104	96	80-127	8	50				
2-Amino-4,6-Dinitrotoluene	103	95	80-137	7	50				
1,3-Dinitrobenzene	103	97	38-166	6	50				
2,4-Dinitrotoluene	100	94	80-131	6	50				
2,6-Dinitrotoluene	105	99	80-127	6	50				
HMX	92	81	63-128	12	50				
Nitrobenzene	103	98	80-125	5	50				
Nitroglycerin	92	86	80-120	7	50				
2-Nitrotoluene	106	100	80-122	6	50				
3-Nitrotoluene	106	100	72-119	6	50				
4-Nitrotoluene	105	99	80-125	6	50				
PETN	103	94	80-121	9	50				
RDX	95	84	75-129	13	50				
Tetryl	106	90	55-174	16	50				
1,3,5-Trinitrobenzene	110	102	82-126	8	50				
2,4,6-Trinitrotoluene	103	96	82-130	7	50				
Batch number: 103480007A	Sample number(s): 6162903-6162904 UNSPK: P162812								
17a Formaldehyde by 8315A	29*	26*	80-120	3	50				
Batch number: 103490015A	Sample number(s): 6162905-6162921 UNSPK: 6162905								
2,4-D	106	101	28-161	5	35				
Dalapon	73	65	12-86	11	50				
2,4-DB	0*	41	20-170	200*	50				
Dicamba	106	98	33-120	8	50				
Dinoseb	0*	0*	1-44	0	35				
2,4-DP (Dichlorprop)	115	110	55-141	4	50				
MCPA	113	110	31-184	2	50				
MCPP (Mecoprop)	0*	0*	16-174	0	50				
2,4,5-T	95	82	25-132	15	35				
2,4,5-TP	0*	0*	10-183	0	35				
Batch number: 103500011A	Sample number(s): 6162905-6162919 UNSPK: P162864								
Aldrin	74	71	16-126	4	50				
Alpha BHC	106	94	10-129	12	50				

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Quality Control Summary

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Reported: 01/21/11 at 10:22 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Beta BHC	88	84	14-147	4	50				
Gamma BHC - Lindane	100	94	10-140	6	50				
p,p-DDD	91	90	16-163	2	50				
p,p-DDE	82	79	18-161	4	50				
p,p-DDT	110	106	10-176	4	50				
Delta BHC	88	81	23-140	7	50				
Dieldrin	73	69	19-154	5	50				
Endosulfan I	79	79	16-137	0	50				
Endosulfan II	73	73	28-154	0	50				
Endosulfan Sulfate	113	98	21-160	14	50				
Endrin	84	79	11-149	6	50				
Endrin Aldehyde	74	65	10-148	14	35				
Endrin Ketone	81	79	22-165	2	50				
Heptachlor	90	86	13-126	5	50				
Heptachlor Epoxide	97	97	13-157	0	50				
Methoxychlor	104	101	32-147	3	50				
Batch number: 103500025A	Sample number(s): 6162903-6162921 UNSPK: 6162903								
PCB-1016	94	92	29-146	2	50				
PCB-1260	109	107	39-149	2	50				
Batch number: 103510029A	Sample number(s): 6162920-6162921 UNSPK: P162943								
Aldrin	77	87	16-126	12	50				
Alpha BHC	100	109	10-129	9	50				
Beta BHC	88	97	14-147	10	50				
Gamma BHC - Lindane	100	109	10-140	9	50				
p,p-DDD	80	88	16-163	10	50				
p,p-DDE	90	102	18-161	12	50				
p,p-DDT	103	116	10-176	12	50				
Delta BHC	94	106	23-140	13	50				
Dieldrin	76	84	19-154	10	50				
Endosulfan I	76	82	16-137	8	50				
Endosulfan II	70	76	28-154	9	50				
Endosulfan Sulfate	86	94	21-160	9	50				
Endrin	88	99	11-149	11	50				
Endrin Aldehyde	77	87	10-148	12	35				
Endrin Ketone	82	85	22-165	4	50				
Heptachlor	118	136*	13-126	14	50				
Heptachlor Epoxide	81	90	13-157	11	50				
Methoxychlor	102	114	32-147	11	50				
Batch number: 103470024A	Sample number(s): 6162903-6162904 UNSPK: P158224								
EFH (C12-C14)	83	92	49-123	10	20				
EFH (C15-C20)	106	113	49-123	7	20				
EFH (C21-C30)	97	99	49-123	2	20				
EFH (C30 - C40)	98	91	49-123	5	20				
EFH (C8-C11)	69	81	49-123	16	20				
Batch number: 103480003A	Sample number(s): 6162903-6162904 UNSPK: P162876								
Ethanol	89	102	24-143	13	20				
Isopropanol	88	91	75-125	4	20				
Methanol	90	115	45-136	25*	20				

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Quality Control Summary

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Reported: 01/21/11 at 10:22 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103480019A	Sample number(s): 6162903-6162904 UNSPK: P162876								
Diethylene glycol	18*	27*	59-109	40*	20				
Ethylene glycol	57*	62*	63-107	9	20				
Propylene glycol	50*	52*	63-107	3	20				
Batch number: 103550026A	Sample number(s): 6162903-6162904 UNSPK: P163871								
m-Terphenyl	90	88	75-125	3	20				
o-Terphenyl	93	91	75-125	2	20				
p-Terphenyl	95	93	75-125	2	20				
Batch number: 103491026003A	Sample number(s): 6162903-6162921 UNSPK: 6162905 BKG: 6162905								
Antimony	36*	27*	75-125	19	20	0.144 J	0.344	82* (1)	20
Arsenic	128*	165*	75-125	11	20	4.18	3.47	19	20
Beryllium	107	122	75-125	12	20	0.275	0.235	16 (1)	20
Cadmium	129*	144*	75-125	12	20	0.173	0.181	4 (1)	20
Chromium	124	154*	75-125	12	20	15.4	13.1	16	20
Cobalt	107	128*	75-125	19	20	5.15	5.62	9	20
Copper	98	115	75-125	10	20	10.8	12.4	14	20
Lead	143*	226*	75-125	25*	20	4.95	5.72	15	20
Nickel	113	139*	75-125	14	20	8.96	7.58	17	20
Silver	121	130*	75-125	10	20	0.0591 J	0.0610 J	3 (1)	20
Thallium	118	135*	75-125	13	20	0.167	0.118	34* (1)	20
Vanadium	86	87	75-125	1	20	25.0	19.4	25*	20
Zinc	375 (2)	355 (2)	75-125	1	20	75.7	67.8	11	20
Batch number: 103491026003B	Sample number(s): 6162903-6162921 UNSPK: 6162905 BKG: 6162905								
Selenium	111	125	75-125	14	20	0.122 J	0.180 J	38* (1)	20
Batch number: 103491026003C	Sample number(s): 6162903-6162921 UNSPK: 6162905 BKG: 6162905								
Molybdenum	130*	151*	75-125	17	20	0.786	0.692	13	20
Batch number: 103491026003D	Sample number(s): 6162903-6162921 UNSPK: 6162905 BKG: 6162905								
Barium	194 (2)	364 (2)	75-125	14	20	96.6	87.3	10	20
Batch number: 103495708003	Sample number(s): 6162903-6162921 UNSPK: 6162905 BKG: 6162905								
Aluminum	902 (2)	1684 (2)	75-125	14	20	8,440	8,290	2	20
Boron	91	91	84-115	2	20	8.25	7.98	3 (1)	20
Calcium	-7886 (2)	-6941 (2)	75-125	32*	20	40,100	9,280	125*	20
Iron	509 (2)	2302 (2)	75-125	11	20	14,200	14,200	0	20
Lithium	102	101	82-114	0	20	12.1	13.7	12	20
Magnesium	197 (2)	318 (2)	75-125	5	20	4,090	4,220	3	20
Manganese	118 (2)	165 (2)	75-125	8	20	212	236	11	20
Phosphorus	141 (2)	97 (2)	75-125	7	20	510	546	7	20
Potassium	156*	145*	75-125	2	20	2,210	2,220	0	20
Sodium	97	105	75-125	7	20	283	265	6 (1)	20
Strontium	-127*	-88*	75-115	24*	20	261	43.3	143*	20
Tin	93	92	80-110	0	20	1.53 J	1.58 J	3 (1)	20
Zirconium	99	99	75-125	1	20	1.30 J	1.80 J	32* (1)	20
Batch number: 103495711003	Sample number(s): 6162903-6162921 UNSPK: 6162905 BKG: 6162905								

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Quality Control Summary

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Reported: 01/21/11 at 10:22 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Mercury	98	91	65-135	8	20	0.0122 J	0.0078 J	43* (1)	20
Batch number: 103545708005	Sample number(s): 6162903-6162921 UNSPK: 6162903 BKG: 6162903								
Titanium	302 (2)	338 (2)	75-125	2	20	1,210	1,190	2	20
Batch number: 10356356201A	Sample number(s): 6162903-6162905 UNSPK: P162864 BKG: P162864								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10357102201A	Sample number(s): 6162903-6162904 UNSPK: P162827 BKG: P162827								
21a Cyanide by 9012B	105		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10357357201A	Sample number(s): 6162906-6162915 UNSPK: 6162906 BKG: 6162906								
7a Perchlorate EPA 314.0	91		80-120			19.9 J	9.0 U	200* (1)	15
Batch number: 10357357201B	Sample number(s): 6162916-6162921 UNSPK: P162943 BKG: P162943								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10359243202A	Sample number(s): 6162903-6162921 UNSPK: 6162910 BKG: 6162910								
3a Cr VI by EPA 7199	91		75-125			1.5	1.0	36* (1)	20
Batch number: 10361361201A	Sample number(s): 6162903-6162910 UNSPK: P162791 BKG: P162791								
11a Anions by 300.0 - Fluoride	94		80-120			1.8	1.7	7 (1)	20
11a Anions by 300.0 - Nitrate	99		80-120			5.8	5.5	6 (1)	20
Batch number: 10362362201B	Sample number(s): 6162921 UNSPK: P162960 BKG: P162960								
11a Anions by 300.0 - Fluoride	72*		80-120			4.7	5.8	21* (1)	20
Batch number: 10362362202A	Sample number(s): 6162911-6162920 UNSPK: 6162911 BKG: 6162911								
11a Anions by 300.0 - Fluoride	67*		80-120			3.2	2.1	42* (1)	20
Batch number: 10348039402A	Sample number(s): 6162903-6162905 BKG: P162875								
22a pH by 9045C						7.26	7.26	0	1
Batch number: 10348039402B	Sample number(s): 6162906-6162916 BKG: 6162906								
22a pH by 9045C						8.57	8.57	0	1
Batch number: 10348039403A	Sample number(s): 6162917-6162921 BKG: 6162917								
22a pH by 9045C						8.50	8.52	0	1
Batch number: 10348182102A	Sample number(s): 6162903-6162905 BKG: P162875								
Oxidation Reduction Potential						473	473	0	6
Batch number: 10348182102B	Sample number(s): 6162906-6162916 BKG: 6162906								
Oxidation Reduction Potential						414	414	0	6
Batch number: 10348182103A	Sample number(s): 6162917-6162921 BKG: 6162917								
Oxidation Reduction Potential						389	391	0	6
Batch number: 10349162401A	Sample number(s): 6162905-6162914 BKG: P154843								
28a Moisture Content by 160.3						20.4	27.1	28*	20
Batch number: 10349162401B	Sample number(s): 6162915-6162921 BKG: 6162915								
28a Moisture Content by 160.3						13.7	13.5	1	20

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10357162401A	Sample number(s): 6162903-6162904					BKG: P162818			
28a Moisture Content by 160.3						10	10.2	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6162903	104	99	98	87
6162904	104	103	96	93
Blank	104	102	96	92
LCS	101	105	100	100
MS	100	100	102	98
MSD	101	103	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103493AA

	Toluene-d8
6162903	100
6162904	100
Blank	99
LCS	99
LCSD	101
MS	101
MSD	100
Limits:	70-130

Analysis Name: 19a NDMA by 1625C
Batch number: 10349SLE026

	N-Nitrosodimethylamine-d6
6162903	80
6162904	101
Blank	98
LCS	90
MS	91
MSD	103
Limits:	50-150

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Quality Control Summary

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Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10349SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162903	99	86	112
6162904	95	87	102
6162905	93	82	98
6162906	98	91	115
6162907	92	84	107
6162908	95	89	113
6162909	97	87	106
6162910	96	86	107
6162911	96	88	105
6162912	103	96	100
6162913	93	88	88
6162914	95	91	89
6162915	100	94	94
6162916	101	96	98
6162917	98	95	102
6162918	100	96	106
6162919	96	92	92
6162920	100	93	95
6162921	103	67	90
Blank	99	87	95
LCS	99	86	95
MS	76	66	86
MSD	100	86	106
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10349SLJ026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162903	96	94	82	86	86	94
6162904	97	93	80	84	84	97
6162905	98	94	84	88	93	93
6162906	93	89	80	84	87	87
6162907	94	91	83	86	89	89
6162908	91	88	78	84	84	90
6162909	93	90	81	86	90	95
6162910	94	91	80	86	90	91
6162911	93	89	76	83	86	92
6162912	94	92	77	88	91	89
6162913	94	92	77	87	89	90
6162914	92	91	77	87	89	92
6162915	96	93	78	87	92	91
6162916	92	90	77	87	91	92
6162917	107	107	89	108	107	105
6162918	93	91	80	86	89	93
6162919	95	92	81	89	91	92
6162920	90	96	90	89	85	89
6162921	93	100	90	92	91	99
Blank	94	89	84	86	84	85
LCS	104	98	89	89	88	89
MS	101	98	89	91	90	96
MSD	99	96	86	91	90	97

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Quality Control Summary

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Reported: 01/21/11 at 10:22 AM

Surrogate Quality Control

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10348A34A

	Trifluorotoluene-F
6162903	79
6162904	81
Blank	94
LCS	96
LCSD	90

Limits: 61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103480007A

	Butyraldehyde
6162903	107
6162904	105
Blank	102
LCS	100
MS	102
MSD	99

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 103480012A

	2-Nitro-m-xylene
6162903	105
6162904	110
Blank	116
LCS	116
LCSD	113
MS	114
MSD	105

Limits: 80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103490015A

	2,4-Dichlorophenylacetic acid
6162905	84
6162906	99
6162907	113
6162908	122
6162909	94
6162910	88
6162911	87
6162912	99
6162913	108
6162914	94
6162915	85

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Surrogate Quality Control

6162916	89
6162917	109
6162918	88
6162919	69
6162920	97
6162921	101
Blank	90
LCS	104
MS	83
MSD	88
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 103500011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162905	77	302*
6162906	72	90
6162907	76	80
6162908	78	59
6162909	68	73
6162910	81	91
6162911	78	66
6162912	89	102
6162913	52	79
6162914	90	87
6162915	84	89
6162916	103	102
6162917	90	102
6162918	78	59
6162919	84	81
Blank	91	113
LCS	88	108
MS	83	80
MSD	77	87
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103500025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162903	103	118
6162904	102	118
6162905	109	74
6162906	113	108
6162907	101	104
6162908	107	112
6162909	111	121*
6162910	110	135
6162911	106	115
6162912	111	123*
6162913	108	109
6162914	109	106
6162915	102	111
6162916	101	105
6162917	100	102

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Surrogate Quality Control

6162918	104	105
6162919	96	102
6162920	103	102
6162921	98	107
Blank	104	108
LCS	104	112
LCSD	104	115
MS	110	122*
MSD	103	116
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103510029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162920	84	87
6162921	82	71
Blank	85	105
LCS	81	107
MS	81	80
MSD	89	79
Limits:	50-130	20-120

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103470024A

	Chlorobenzene	Orthoterphenyl
6162903	61	82
6162904	67	78
Blank	80	89
LCS	82	86
MS	78	83
MSD	82	88
Limits:	37-125	47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 103480003A

	Acetone
6162903	84
6162904	84
Blank	88
LCS	92
MS	89
MSD	87
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103480019A

	Tetramethylene glycol
6162903	82
6162904	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225037
Reported: 01/21/11 at 10:22 AM

Surrogate Quality Control

Blank	95
LCS	96
MS	59
MSD	50

Limits: 50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550026A
n-Triacontane-d62

6162903	92
6162904	95
Blank	97
LCS	94
MS	91
MSD	93

Limits: 50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap# 1225037 Sample# 6162903-21

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B
SL-017-SA5C-SB-4.0-5.0	~~12.10.10~~ 12/9/10	1020	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-017-SA5C-SB-9.0-10.0	~~12.10.10~~ 12/9/10	1030	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-008-SA5B-SS-0.0-0.5	12/10/10	0822	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-009-SA5B-SS-0.0-0.5	12/10/10	0825	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
~~SL-228~~ SL-048 SA5B-SS-0.0-0.5	12/10/10	0912	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-229-SA5B-SS-0.0-0.5	12/10/10	0840	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
~~SL-048~~ SL-287-SA5B-SS-0.0-0.5	12/10/10	0903	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										

PB 12/10/10

PB 12/10/10

PB 12/10/10

Other Instructions and Notes

Amended COC

The collection date for SL-017-SA5C-SB-4.0-5.0 and SL-017-SA5C-SB-9.0-10.0 was updated to 12/9/10 per PB. NLM 1/5/11

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.10.10 1630		12/10/10 0900
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514317123	

Laboratory: Lancaster Laboratories, Inc.

Cooler 2

acct#13013 Cp# 1225037 Sample# 6162903-21

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-051-SA5B-SS-0.0-0.5	12.10.10	1320	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-062-SA5B-S5-0.0-0.5	12.10.10	1300	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-064-SA5B-SS-0.0-0.5	12.10.10	1315	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-232-SA5B-SS-0.0-0.5	12.10.10	1259	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-233-SA5B-SS-0.0-0.5	12.10.10	1246	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-299-SA5B-SS-0.0-0.5	12.10.10	1049	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-300-SA5B-SS-0.0-0.5	12.10.10	1104	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-067-SA5B-SS-0.0-0.5	12.10.10	1355	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-059-SA5B-SS-0.0-0.5	12.10.10	1424	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-065-SA5B-SS-0.0-0.5	12.10.10	1425	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-061-SA5B-SS-0.0-0.5	12.10.10	1345	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-070-SA5B-SS-0.0-0.5	12.10.10	1334	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.10.10 1630		10/12/10 0930
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317145	

Laboratory: Lancaster Laboratories, Inc.

Cooler 4

869514317145

acct# 13013 Qp# 1225037 Sample# 6162903-21

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-01-SA5B-120910	12/9/10	1210	water	none	7-1 liter amber			X						X	X			X	X										
EB-01-SA5B-120910	12/9/10	1210	water	none	1-500 ml poly							X	X			X									X				
EB-01-SA5B-120910	12/9/10	1210	water	HNO3	1-500 ml poly						X																		
SL-017-SA5C-SB-4.5	12/9/10	1016	soil	none	5 Encore samplers	X	X		X																				
SL-017-SA5C-SB-9.5	12/9/10	1028	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5C-SB-4.5	12/9/10	0949	soil	none	5 Encore samplers	X	X		X																				
SL-022-SA5C-SB-9.5	12/9/10	1000	soil	none	5 Encore samplers	X	X		X																				
SL-012-SA5C-SB-4.5	12/9/10	1300	soil	none	5 Encore samplers	X	X		X																				
SL-012-SA5C-SB-9.5	12/9/10	1310	soil	none	5 Encore samplers	X	X		X																				
SL-020-SA5B-SS-0.0-0.5	12/9/10	0840	soil	none	5 Encore samplers	X	X		X																				
SL-014-SA5B-SS-0.0-0.5	12/9/10	0915	soil	none	5 Encore samplers	X	X		X																				
SL-018-SA5B-SS-0.0-0.5	12/9/10	0845	soil	none	5 Encore samplers	X	X		X																				
SL-011-SA5B-SS-0.0-0.5	12/9/10	0905	soil	none	5 Encore samplers	X	X		X																				
SL-013-SA5C-SB-9.5	12/9/10	1348	soil	none	5 Encore samplers	X	X		X																				
SL-013-SA5C-SB-4.5	12/9/10	1340	soil	none	5 Encore samplers	X	X		X																				
TB-120910	12/9/10	1630	soil	none	5 Encore samplers	X	X		X																				

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.09.10 1630		12/10/10 915
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317774	

Laboratory: Lancaster Laboratories, Inc.

Cooler 4

869514317774

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/11/2010
Group Number: 1225038
SDG: DX018
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA5C-SB-4.0-5.0 Soil	6162922
SL-017-SA5C-SB-9.0-10.0 Soil	6162923
SL-008-SA5B-SS-0.0-0.5 Soil	6162924
SL-009-SA5B-SS-0.0-0.5 Soil	6162925
SL-228-SA5B-SS-0.0-0.5 Soil	6162926
SL-229-SA5B-SS-0.0-0.5 Soil	6162927
SL-048-SA5B-SS-0.0-0.5 Soil	6162928
SL-051-SA5B-SS-0.0-0.5 Soil	6162929
SL-062-SA5B-SS-0.0-0.5 Soil	6162930
SL-064-SA5B-SS-0.0-0.5 Soil	6162931
SL-232-SA5B-SS-0.0-0.5 Soil	6162932
SL-233-SA5B-SS-0.0-0.5 Soil	6162933
SL-299-SA5B-SS-0.0-0.5 Soil	6162934
SL-300-SA5B-SS-0.0-0.5 Soil	6162935
SL-067-SA5B-SS-0.0-0.5 Soil	6162936
SL-059-SA5B-SS-0.0-0.5 Soil	6162937
SL-065-SA5B-SS-0.0-0.5 Soil	6162938
SL-061-SA5B-SS-0.0-0.5 Soil	6162939
SL-070-SA5B-SS-0.0-0.5 Soil	6162940

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

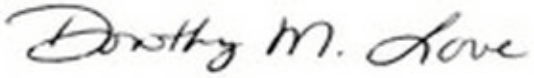

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-017-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162922
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1801 SDG#: DX018-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162922
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1801 SDG#: DX018-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0478	U	0.0478	1.11	1
11031	12378-PeCDD	40321-76-4	0.0445	U	0.0445	5.54	1
11031	123478-HxCDD	39227-28-6	0.0623	JBQ	0.0327	5.54	1
11031	123678-HxCDD	57653-85-7	0.132	JB	0.0336	5.54	1
11031	123789-HxCDD	19408-74-3	0.305	JBQ	0.0341	5.54	1
11031	1234678-HpCDD	35822-46-9	0.491	JBQ	0.0523	5.54	1
11031	OCDD	3268-87-9	2.98	JB	0.0764	11.1	1
11031	2378-TCDF	51207-31-9	0.0640	JQ	0.0353	1.11	1
11031	12378-PeCDF	57117-41-6	0.0806	JBQ	0.0218	5.54	1
11031	23478-PeCDF	57117-31-4	0.116	JBQ	0.0208	5.54	1
11031	123478-HxCDF	70648-26-9	0.105	JB	0.0258	5.54	1
11031	123678-HxCDF	57117-44-9	0.149	JB	0.0241	5.54	1
11031	123789-HxCDF	72918-21-9	0.252	JB	0.0313	5.54	1
11031	234678-HxCDF	60851-34-5	0.163	JBQ	0.0246	5.54	1
11031	1234678-HpCDF	67562-39-4	0.564	JB	0.0753	5.54	1
11031	1234789-HpCDF	55673-89-7	0.110	U	0.110	5.54	1
11031	OCDF	39001-02-0	0.483	JB	0.0837	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162922
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1801 SDG#: DX018-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-017-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-4.0-5.0

LLI Sample # SW 6162922
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:20

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1801 SDG#: DX018-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/29/2010 23:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-017-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162923
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1802 SDG#: DX018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162923
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1802 SDG#: DX018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0510 U	0.0510	1.12	1
11031	12378-PeCDD	40321-76-4	0.0938 JBQ	0.0560	5.59	1
11031	123478-HxCDD	39227-28-6	0.0413 JBQ	0.0402	5.59	1
11031	123678-HxCDD	57653-85-7	0.0862 JBQ	0.0413	5.59	1
11031	123789-HxCDD	19408-74-3	0.0455 JBQ	0.0403	5.59	1
11031	1234678-HpCDD	35822-46-9	0.283 JB	0.0736	5.59	1
11031	OCDD	3268-87-9	1.37 JB	0.112	11.2	1
11031	2378-TCDF	51207-31-9	0.0346 U	0.0346	1.12	1
11031	12378-PeCDF	57117-41-6	0.0431 JBQ	0.0234	5.59	1
11031	23478-PeCDF	57117-31-4	0.144 JBQ	0.0230	5.59	1
11031	123478-HxCDF	70648-26-9	0.196 JBQ	0.0406	5.59	1
11031	123678-HxCDF	57117-44-9	0.127 JBQ	0.0362	5.59	1
11031	123789-HxCDF	72918-21-9	0.126 JBQ	0.0478	5.59	1
11031	234678-HxCDF	60851-34-5	0.173 JBQ	0.0383	5.59	1
11031	1234678-HpCDF	67562-39-4	0.653 JBQ	0.112	5.59	1
11031	1234789-HpCDF	55673-89-7	0.359 JBQ	0.162	5.59	1
11031	OCDF	39001-02-0	0.627 JBQ	0.140	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	41	25 - 164
13C12-12378-PeCDD	49	25 - 181
13C12-123478-HxCDD	47	32 - 141
13C12-123678-HxCDD	48	28 - 130
13C12-123789-HxCDD	48	28 - 130
13C12-1234678-HpCDD	45	23 - 140
13C12-OCDD	40	17 - 157
13C12-2378-TCDF	44	24 - 169
13C12-12378-PeCDF	53	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	50	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	47	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162923
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1802 SDG#: DX018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5C-SB-9.0-10.0

LLI Sample # SW 6162923
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/09/2010 10:30

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1802 SDG#: DX018-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 00:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401A	12/23/2010 21:06	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-008-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162924
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1803 SDG#: DX018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	3.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162924
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1803 SDG#: DX018-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	1.79		0.0681	1.04	1
11031	12378-PeCDD	40321-76-4	18.2	B	0.120	5.18	1
11031	123478-HxCDD	39227-28-6	37.8	B	0.230	5.18	1
11031	123678-HxCDD	57653-85-7	192	B	0.231	5.18	1
11031	123789-HxCDD	19408-74-3	74.6	B	0.240	5.18	1
11031	1234678-HpCDD	35822-46-9	6,770	EB	0.865	5.18	1
11031	OCDD	3268-87-9	130,000 EB		0.707	10.4	1
11031	2378-TCDF	51207-31-9	1.82		0.106	1.04	1
11031	12378-PeCDF	57117-41-6	8.91	B	0.0587	5.18	1
11031	23478-PeCDF	57117-31-4	17.1	B	0.0489	5.18	1
11031	123478-HxCDF	70648-26-9	56.2	B	0.198	5.18	1
11031	123678-HxCDF	57117-44-9	35.5	B	0.191	5.18	1
11031	123789-HxCDF	72918-21-9	24.4	B	0.225	5.18	1
11031	234678-HxCDF	60851-34-5	40.2	B	0.186	5.18	1
11031	1234678-HpCDF	67562-39-4	1,120	B	0.180	5.18	1
11031	1234789-HpCDF	55673-89-7	74.5	B	0.248	5.18	1
11031	OCDF	39001-02-0	3,940	B	0.162	10.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162924
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1803 SDG#: DX018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5B-SS-0.0-0.5

LLI Sample # SW 6162924
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:22

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1803 SDG#: DX018-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 01:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162925
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1804 SDG#: DX018-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162925
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1804 SDG#: DX018-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.887 J	0.0425	1.07	1
11031	12378-PeCDD	40321-76-4	8.89 B	0.108	5.35	1
11031	123478-HxCDD	39227-28-6	18.7 B	0.130	5.35	1
11031	123678-HxCDD	57653-85-7	75.1 B	0.135	5.35	1
11031	123789-HxCDD	19408-74-3	34.7 B	0.141	5.35	1
11031	1234678-HpCDD	35822-46-9	2,610 EB	0.530	5.35	1
11031	OCDD	3268-87-9	42,300 EB	0.464	10.7	1
11031	2378-TCDF	51207-31-9	0.696 J	0.0713	1.07	1
11031	12378-PeCDF	57117-41-6	3.44 JB	0.0412	5.35	1
11031	23478-PeCDF	57117-31-4	6.69 B	0.0404	5.35	1
11031	123478-HxCDF	70648-26-9	22.3 B	0.108	5.35	1
11031	123678-HxCDF	57117-44-9	14.1 B	0.100	5.35	1
11031	123789-HxCDF	72918-21-9	8.64 B	0.124	5.35	1
11031	234678-HxCDF	60851-34-5	16.2 B	0.102	5.35	1
11031	1234678-HpCDF	67562-39-4	425 B	0.129	5.35	1
11031	1234789-HpCDF	55673-89-7	29.5 B	0.172	5.35	1
11031	OCDF	39001-02-0	1,480 B	0.117	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162925
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1804 SDG#: DX018-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5B-SS-0.0-0.5

LLI Sample # SW 6162925
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:25

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1804 SDG#: DX018-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 02:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-228-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162926
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1805 SDG#: DX018-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	27.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-228-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162926
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1805 SDG#: DX018-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0541	JQ	0.0361	1.38	1
11031	12378-PeCDD	40321-76-4	0.381	JBQ	0.0852	6.90	1
11031	123478-HxCDD	39227-28-6	0.619	JB	0.0935	6.90	1
11031	123678-HxCDD	57653-85-7	1.74	JB	0.0983	6.90	1
11031	123789-HxCDD	19408-74-3	1.15	JB	0.0997	6.90	1
11031	1234678-HpCDD	35822-46-9	42.2	B	0.119	6.90	1
11031	OCDD	3268-87-9	407	B	0.149	13.8	1
11031	2378-TCDF	51207-31-9	0.459	JQ	0.0699	1.38	1
11031	12378-PeCDF	57117-41-6	0.483	JB	0.0501	6.90	1
11031	23478-PeCDF	57117-31-4	0.608	JBQ	0.0459	6.90	1
11031	123478-HxCDF	70648-26-9	1.32	JB	0.108	6.90	1
11031	123678-HxCDF	57117-44-9	0.552	JB	0.0993	6.90	1
11031	123789-HxCDF	72918-21-9	0.617	JB	0.135	6.90	1
11031	234678-HxCDF	60851-34-5	0.736	JB	0.110	6.90	1
11031	1234678-HpCDF	67562-39-4	7.50	B	0.0774	6.90	1
11031	1234789-HpCDF	55673-89-7	8.35	B	0.104	6.90	1
11031	OCDF	39001-02-0	14.6	B	0.0636	13.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-228-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162926
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1805 SDG#: DX018-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-228-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-228-SA5B-SS-0.0-0.5

LLI Sample # SW 6162926
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:12

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1805 SDG#: DX018-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 03:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-229-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162927
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1806 SDG#: DX018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-229-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162927
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1806 SDG#: DX018-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0294	U	0.0294	1.14	1
11031	12378-PeCDD	40321-76-4	1.06	JB	0.0706	5.69	1
11031	123478-HxCDD	39227-28-6	1.91	JB	0.0720	5.69	1
11031	123678-HxCDD	57653-85-7	3.90	JB	0.0754	5.69	1
11031	123789-HxCDD	19408-74-3	4.04	JB	0.0757	5.69	1
11031	1234678-HpCDD	35822-46-9	122	B	0.148	5.69	1
11031	OCDD	3268-87-9	1,540	B	0.169	11.4	1
11031	2378-TCDF	51207-31-9	0.0425	U	0.0425	1.14	1
11031	12378-PeCDF	57117-41-6	0.286	JBQ	0.0335	5.69	1
11031	23478-PeCDF	57117-31-4	0.465	JB	0.0306	5.69	1
11031	123478-HxCDF	70648-26-9	1.05	JB	0.0929	5.69	1
11031	123678-HxCDF	57117-44-9	1.29	JB	0.0869	5.69	1
11031	123789-HxCDF	72918-21-9	0.274	JBQ	0.107	5.69	1
11031	234678-HxCDF	60851-34-5	1.76	JB	0.0892	5.69	1
11031	1234678-HpCDF	67562-39-4	16.5	B	0.0798	5.69	1
11031	1234789-HpCDF	55673-89-7	3.12	JB	0.107	5.69	1
11031	OCDF	39001-02-0	39.5	B	0.0608	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	66	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-229-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162927
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1806 SDG#: DX018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-229-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SS-0.0-0.5

LLI Sample # SW 6162927
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:40

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1806 SDG#: DX018-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 04:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162928
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1807 SDG#: DX018-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162928
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1807 SDG#: DX018-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0497	J	0.0191	1.13	1
11031	12378-PeCDD	40321-76-4	0.221	JB	0.0342	5.64	1
11031	123478-HxCDD	39227-28-6	0.218	JBQ	0.0411	5.64	1
11031	123678-HxCDD	57653-85-7	0.670	JB	0.0423	5.64	1
11031	123789-HxCDD	19408-74-3	0.573	JB	0.0406	5.64	1
11031	1234678-HpCDD	35822-46-9	30.7	B	0.0851	5.64	1
11031	OCDD	3268-87-9	492	B	0.0685	11.3	1
11031	2378-TCDF	51207-31-9	0.0618	JQ	0.0213	1.13	1
11031	12378-PeCDF	57117-41-6	0.141	JBQ	0.0150	5.64	1
11031	23478-PeCDF	57117-31-4	0.180	JB	0.0140	5.64	1
11031	123478-HxCDF	70648-26-9	0.281	JB	0.0297	5.64	1
11031	123678-HxCDF	57117-44-9	0.299	JB	0.0263	5.64	1
11031	123789-HxCDF	72918-21-9	0.155	JBQ	0.0351	5.64	1
11031	234678-HxCDF	60851-34-5	0.343	JBQ	0.0291	5.64	1
11031	1234678-HpCDF	67562-39-4	3.28	JB	0.0210	5.64	1
11031	1234789-HpCDF	55673-89-7	0.392	JB	0.0334	5.64	1
11031	OCDF	39001-02-0	5.21	JB	0.0383	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162928
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1807 SDG#: DX018-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SS-0.0-0.5

LLI Sample # SW 6162928
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:03

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1807 SDG#: DX018-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 13:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162929
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1808 SDG#: DX018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-051-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162929
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1808 SDG#: DX018-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0235	J	0.0183	1.11	1
11031	12378-PeCDD	40321-76-4	0.163	JBQ	0.0421	5.55	1
11031	123478-HxCDD	39227-28-6	0.249	JBQ	0.0372	5.55	1
11031	123678-HxCDD	57653-85-7	1.09	JB	0.0385	5.55	1
11031	123789-HxCDD	19408-74-3	0.463	JB	0.0396	5.55	1
11031	1234678-HpCDD	35822-46-9	38.4	B	0.0896	5.55	1
11031	OCDD	3268-87-9	495	B	0.0761	11.1	1
11031	2378-TCDF	51207-31-9	0.0294	JQ	0.0279	1.11	1
11031	12378-PeCDF	57117-41-6	0.204	JB	0.0159	5.55	1
11031	23478-PeCDF	57117-31-4	0.275	JB	0.0152	5.55	1
11031	123478-HxCDF	70648-26-9	0.290	JB	0.0266	5.55	1
11031	123678-HxCDF	57117-44-9	0.415	JB	0.0238	5.55	1
11031	123789-HxCDF	72918-21-9	0.161	JB	0.0297	5.55	1
11031	234678-HxCDF	60851-34-5	0.396	JBQ	0.0250	5.55	1
11031	1234678-HpCDF	67562-39-4	5.39	JB	0.0353	5.55	1
11031	1234789-HpCDF	55673-89-7	0.505	JB	0.0473	5.55	1
11031	OCDF	39001-02-0	11.0	JB	0.0395	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-051-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162929
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1808 SDG#: DX018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SS-0.0-0.5

LLI Sample # SW 6162929
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:20

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1808 SDG#: DX018-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 14:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162930
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1809 SDG#: DX018-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-062-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162930
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1809 SDG#: DX018-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0263	U	0.0263	1.17	1
11031	12378-PeCDD	40321-76-4	0.0847	JBQ	0.0371	5.84	1
11031	123478-HxCDD	39227-28-6	0.0472	JBQ	0.0325	5.84	1
11031	123678-HxCDD	57653-85-7	0.179	JB	0.0341	5.84	1
11031	123789-HxCDD	19408-74-3	0.163	JBQ	0.0327	5.84	1
11031	1234678-HpCDD	35822-46-9	3.55	JB	0.0546	5.84	1
11031	OCDD	3268-87-9	38.5	B	0.0536	11.7	1
11031	2378-TCDF	51207-31-9	0.0411	J	0.0238	1.17	1
11031	12378-PeCDF	57117-41-6	0.0750	JBQ	0.0148	5.84	1
11031	23478-PeCDF	57117-31-4	0.0950	JB	0.0148	5.84	1
11031	123478-HxCDF	70648-26-9	0.0999	JBQ	0.0296	5.84	1
11031	123678-HxCDF	57117-44-9	0.107	JBQ	0.0259	5.84	1
11031	123789-HxCDF	72918-21-9	0.120	JBQ	0.0349	5.84	1
11031	234678-HxCDF	60851-34-5	0.147	JBQ	0.0283	5.84	1
11031	1234678-HpCDF	67562-39-4	0.846	JB	0.0257	5.84	1
11031	1234789-HpCDF	55673-89-7	0.123	JBQ	0.0391	5.84	1
11031	OCDF	39001-02-0	1.45	JB	0.0432	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	53	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	59	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-062-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162930
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1809 SDG#: DX018-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-062-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SS-0.0-0.5

LLI Sample # SW 6162930
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:00

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1809 SDG#: DX018-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 15:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162931
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1810 SDG#: DX018-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-064-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162931
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1810 SDG#: DX018-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0228	U	0.0228	1.12	1
11031	12378-PeCDD	40321-76-4	0.0736	JB	0.0335	5.60	1
11031	123478-HxCDD	39227-28-6	0.135	JBQ	0.0376	5.60	1
11031	123678-HxCDD	57653-85-7	0.642	JB	0.0395	5.60	1
11031	123789-HxCDD	19408-74-3	0.354	JB	0.0373	5.60	1
11031	1234678-HpCDD	35822-46-9	20.8	B	0.0628	5.60	1
11031	OCDD	3268-87-9	241	B	0.0651	11.2	1
11031	2378-TCDF	51207-31-9	0.0398	JQ	0.0270	1.12	1
11031	12378-PeCDF	57117-41-6	0.181	JBQ	0.0139	5.60	1
11031	23478-PeCDF	57117-31-4	0.172	JB	0.0139	5.60	1
11031	123478-HxCDF	70648-26-9	0.235	JBQ	0.0260	5.60	1
11031	123678-HxCDF	57117-44-9	0.171	JB	0.0233	5.60	1
11031	123789-HxCDF	72918-21-9	0.134	JBQ	0.0288	5.60	1
11031	234678-HxCDF	60851-34-5	0.297	JB	0.0254	5.60	1
11031	1234678-HpCDF	67562-39-4	2.99	JB	0.0273	5.60	1
11031	1234789-HpCDF	55673-89-7	0.330	JBQ	0.0385	5.60	1
11031	OCDF	39001-02-0	7.30	JB	0.0372	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-064-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162931
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1810 SDG#: DX018-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5B-SS-0.0-0.5

LLI Sample # SW 6162931
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:15

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1810 SDG#: DX018-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 16:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-232-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162932
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1811 SDG#: DX018-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-232-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162932
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1811 SDG#: DX018-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0306	U	0.0306	1.15	1
11031	12378-PeCDD	40321-76-4	0.208	JB	0.0477	5.76	1
11031	123478-HxCDD	39227-28-6	0.290	JB	0.0444	5.76	1
11031	123678-HxCDD	57653-85-7	0.740	JB	0.0459	5.76	1
11031	123789-HxCDD	19408-74-3	0.485	JB	0.0432	5.76	1
11031	1234678-HpCDD	35822-46-9	23.2	B	0.0762	5.76	1
11031	OCDD	3268-87-9	248	B	0.0614	11.5	1
11031	2378-TCDF	51207-31-9	0.0772	J	0.0387	1.15	1
11031	12378-PeCDF	57117-41-6	0.147	JB	0.0203	5.76	1
11031	23478-PeCDF	57117-31-4	0.464	JB	0.0218	5.76	1
11031	123478-HxCDF	70648-26-9	0.249	JB	0.0343	5.76	1
11031	123678-HxCDF	57117-44-9	0.235	JB	0.0295	5.76	1
11031	123789-HxCDF	72918-21-9	0.119	JBQ	0.0347	5.76	1
11031	234678-HxCDF	60851-34-5	0.333	JB	0.0310	5.76	1
11031	1234678-HpCDF	67562-39-4	3.25	JB	0.0371	5.76	1
11031	1234789-HpCDF	55673-89-7	0.356	JBQ	0.0533	5.76	1
11031	OCDF	39001-02-0	6.53	JB	0.0435	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	66	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-232-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162932
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1811 SDG#: DX018-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-232-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-232-SA5B-SS-0.0-0.5

LLI Sample # SW 6162932
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:59

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1811 SDG#: DX018-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 17:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162933
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1812 SDG#: DX018-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-233-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162933
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1812 SDG#: DX018-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0292	JQ	0.0198	1.14	1
11031	12378-PeCDD	40321-76-4	0.0704	JBQ	0.0294	5.68	1
11031	123478-HxCDD	39227-28-6	0.113	JB	0.0285	5.68	1
11031	123678-HxCDD	57653-85-7	0.458	JB	0.0300	5.68	1
11031	123789-HxCDD	19408-74-3	0.242	JB	0.0295	5.68	1
11031	1234678-HpCDD	35822-46-9	13.7	B	0.0495	5.68	1
11031	OCDD	3268-87-9	161	B	0.0456	11.4	1
11031	2378-TCDF	51207-31-9	0.0290	JQ	0.0243	1.14	1
11031	12378-PeCDF	57117-41-6	0.152	JBQ	0.0123	5.68	1
11031	23478-PeCDF	57117-31-4	0.183	JBQ	0.0132	5.68	1
11031	123478-HxCDF	70648-26-9	0.165	JB	0.0204	5.68	1
11031	123678-HxCDF	57117-44-9	0.162	JB	0.0174	5.68	1
11031	123789-HxCDF	72918-21-9	0.135	JB	0.0246	5.68	1
11031	234678-HxCDF	60851-34-5	0.233	JB	0.0195	5.68	1
11031	1234678-HpCDF	67562-39-4	2.07	JB	0.0210	5.68	1
11031	1234789-HpCDF	55673-89-7	0.368	JB	0.0341	5.68	1
11031	OCDF	39001-02-0	4.71	JB	0.0341	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-233-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162933
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1812 SDG#: DX018-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-233-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-233-SA5B-SS-0.0-0.5

LLI Sample # SW 6162933
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:46

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1812 SDG#: DX018-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 18:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401A	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-299-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162934
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1813 SDG#: DX018-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-299-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162934
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1813 SDG#: DX018-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0330	U	0.0330	1.16	1
11031	12378-PeCDD	40321-76-4	0.0696	JBQ	0.0392	5.79	1
11031	123478-HxCDD	39227-28-6	0.0567	JBQ	0.0362	5.79	1
11031	123678-HxCDD	57653-85-7	0.250	JB	0.0373	5.79	1
11031	123789-HxCDD	19408-74-3	0.141	JBQ	0.0370	5.79	1
11031	1234678-HpCDD	35822-46-9	6.90	B	0.0601	5.79	1
11031	OCDD	3268-87-9	83.1	B	0.0501	11.6	1
11031	2378-TCDF	51207-31-9	0.0339	JQ	0.0260	1.16	1
11031	12378-PeCDF	57117-41-6	0.114	JBQ	0.0152	5.79	1
11031	23478-PeCDF	57117-31-4	0.128	JBQ	0.0149	5.79	1
11031	123478-HxCDF	70648-26-9	0.132	JBQ	0.0261	5.79	1
11031	123678-HxCDF	57117-44-9	0.0951	JBQ	0.0225	5.79	1
11031	123789-HxCDF	72918-21-9	0.112	JBQ	0.0290	5.79	1
11031	234678-HxCDF	60851-34-5	0.169	JBQ	0.0255	5.79	1
11031	1234678-HpCDF	67562-39-4	1.25	JB	0.0242	5.79	1
11031	1234789-HpCDF	55673-89-7	0.172	JBQ	0.0372	5.79	1
11031	OCDF	39001-02-0	2.23	JB	0.0375	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-299-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162934
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1813 SDG#: DX018-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-299-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-299-SA5B-SS-0.0-0.5

LLI Sample # SW 6162934
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:49

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1813 SDG#: DX018-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 19:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-300-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162935
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1814 SDG#: DX018-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	17.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-300-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162935
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1814 SDG#: DX018-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0211	JQ	0.0204	1.21	1
11031	12378-PeCDD	40321-76-4	0.0493	U	0.0493	6.03	1
11031	123478-HxCDD	39227-28-6	0.0452	U	0.0452	6.03	1
11031	123678-HxCDD	57653-85-7	0.222	JB	0.0485	6.03	1
11031	123789-HxCDD	19408-74-3	0.155	JB	0.0460	6.03	1
11031	1234678-HpCDD	35822-46-9	8.82	B	0.0889	6.03	1
11031	OCDD	3268-87-9	110	B	0.0805	12.1	1
11031	2378-TCDF	51207-31-9	0.0409	JQ	0.0300	1.21	1
11031	12378-PeCDF	57117-41-6	0.0791	JBQ	0.0210	6.03	1
11031	23478-PeCDF	57117-31-4	0.221	JBQ	0.0212	6.03	1
11031	123478-HxCDF	70648-26-9	0.175	JBQ	0.0369	6.03	1
11031	123678-HxCDF	57117-44-9	0.117	JBQ	0.0315	6.03	1
11031	123789-HxCDF	72918-21-9	0.120	JB	0.0331	6.03	1
11031	234678-HxCDF	60851-34-5	0.201	JB	0.0332	6.03	1
11031	1234678-HpCDF	67562-39-4	1.30	JB	0.0346	6.03	1
11031	1234789-HpCDF	55673-89-7	0.203	JBQ	0.0597	6.03	1
11031	OCDF	39001-02-0	2.83	JB	0.0758	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	43	25 - 181
13C12-123478-HxCDD	42	32 - 141
13C12-123678-HxCDD	41	28 - 130
13C12-123789-HxCDD	43	28 - 130
13C12-1234678-HpCDD	40	23 - 140
13C12-OCDD	38	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	50	24 - 185
13C12-23478-PeCDF	48	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	43	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	46	28 - 143
13C12-1234789-HpCDF	33	26 - 138
13C12-OCDF	29	17 - 157
13C12-1278-TCDD (CRS)	43	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-300-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162935
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1814 SDG#: DX018-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-300-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-300-SA5B-SS-0.0-0.5

LLI Sample # SW 6162935
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:04

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1814 SDG#: DX018-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 20:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-067-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162936
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1815 SDG#: DX018-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-067-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162936
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1815 SDG#: DX018-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.116	JQ	0.0303	1.08	1
11031	12378-PeCDD	40321-76-4	1.63	JBQ	0.0872	5.39	1
11031	123478-HxCDD	39227-28-6	2.12	JB	0.0512	5.39	1
11031	123678-HxCDD	57653-85-7	7.17	B	0.0525	5.39	1
11031	123789-HxCDD	19408-74-3	3.76	JB	0.0528	5.39	1
11031	1234678-HpCDD	35822-46-9	152	B	0.171	5.39	1
11031	OCDD	3268-87-9	1,980	B	0.144	10.8	1
11031	2378-TCDF	51207-31-9	1.24		0.0879	1.08	1
11031	12378-PeCDF	57117-41-6	0.898	JB	0.0347	5.39	1
11031	23478-PeCDF	57117-31-4	1.63	JB	0.0320	5.39	1
11031	123478-HxCDF	70648-26-9	2.67	JB	0.0538	5.39	1
11031	123678-HxCDF	57117-44-9	2.45	JB	0.0505	5.39	1
11031	123789-HxCDF	72918-21-9	0.784	JBQ	0.0579	5.39	1
11031	234678-HxCDF	60851-34-5	2.23	JB	0.0489	5.39	1
11031	1234678-HpCDF	67562-39-4	25.9	B	0.0439	5.39	1
11031	1234789-HpCDF	55673-89-7	4.10	JB	0.0542	5.39	1
11031	OCDF	39001-02-0	51.3	B	0.0458	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	63	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-067-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162936
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1815 SDG#: DX018-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-067-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SS-0.0-0.5

LLI Sample # SW 6162936
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:55

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1815 SDG#: DX018-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/30/2010 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162937
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1816 SDG#: DX018-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162937
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1816 SDG#: DX018-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0183	U	0.0183	1.15	1
11031	12378-PeCDD	40321-76-4	0.0965	JBQ	0.0256	5.74	1
11031	123478-HxCDD	39227-28-6	0.0561	JBQ	0.0216	5.74	1
11031	123678-HxCDD	57653-85-7	0.163	JBQ	0.0217	5.74	1
11031	123789-HxCDD	19408-74-3	0.110	JBQ	0.0219	5.74	1
11031	1234678-HpCDD	35822-46-9	4.75	JB	0.0326	5.74	1
11031	OCDD	3268-87-9	55.8	B	0.0371	11.5	1
11031	2378-TCDF	51207-31-9	0.0307	JQ	0.0176	1.15	1
11031	12378-PeCDF	57117-41-6	0.114	JB	0.00976	5.74	1
11031	23478-PeCDF	57117-31-4	0.134	JB	0.00999	5.74	1
11031	123478-HxCDF	70648-26-9	0.137	JB	0.0186	5.74	1
11031	123678-HxCDF	57117-44-9	0.0956	JBQ	0.0160	5.74	1
11031	123789-HxCDF	72918-21-9	0.0862	JBQ	0.0227	5.74	1
11031	234678-HxCDF	60851-34-5	0.159	JB	0.0171	5.74	1
11031	1234678-HpCDF	67562-39-4	0.948	JB	0.0146	5.74	1
11031	1234789-HpCDF	55673-89-7	0.116	JB	0.0241	5.74	1
11031	OCDF	39001-02-0	1.75	JB	0.0247	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162937
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1816 SDG#: DX018-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SS-0.0-0.5

LLI Sample # SW 6162937
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:24

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1816 SDG#: DX018-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/31/2010 07:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162938
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1817 SDG#: DX018-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-065-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162938
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1817 SDG#: DX018-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0224	J	0.0189	1.10	1
11031	12378-PeCDD	40321-76-4	0.163	JB	0.0358	5.52	1
11031	123478-HxCDD	39227-28-6	0.168	JB	0.0268	5.52	1
11031	123678-HxCDD	57653-85-7	1.05	JB	0.0276	5.52	1
11031	123789-HxCDD	19408-74-3	0.538	JB	0.0272	5.52	1
11031	1234678-HpCDD	35822-46-9	10.3	B	0.0377	5.52	1
11031	OCDD	3268-87-9	90.5	B	0.0446	11.0	1
11031	2378-TCDF	51207-31-9	0.162	J	0.0536	1.10	1
11031	12378-PeCDF	57117-41-6	0.450	JBQ	0.0231	5.52	1
11031	23478-PeCDF	57117-31-4	1.28	JB	0.0223	5.52	1
11031	123478-HxCDF	70648-26-9	1.02	JB	0.0223	5.52	1
11031	123678-HxCDF	57117-44-9	0.639	JB	0.0202	5.52	1
11031	123789-HxCDF	72918-21-9	0.354	JB	0.0238	5.52	1
11031	234678-HxCDF	60851-34-5	0.549	JB	0.0208	5.52	1
11031	1234678-HpCDF	67562-39-4	2.04	JB	0.0178	5.52	1
11031	1234789-HpCDF	55673-89-7	0.561	JBQ	0.0221	5.52	1
11031	OCDF	39001-02-0	3.34	JB	0.0233	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162938
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1817 SDG#: DX018-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SS-0.0-0.5

LLI Sample # SW 6162938
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:25

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1817 SDG#: DX018-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/31/2010 08:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162939
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1818 SDG#: DX018-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-061-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162939
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1818 SDG#: DX018-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0207	U	0.0207	1.15	1
11031	12378-PeCDD	40321-76-4	0.0989	JBQ	0.0414	5.73	1
11031	123478-HxCDD	39227-28-6	0.0999	JBQ	0.0296	5.73	1
11031	123678-HxCDD	57653-85-7	0.522	JB	0.0293	5.73	1
11031	123789-HxCDD	19408-74-3	0.279	JB	0.0300	5.73	1
11031	1234678-HpCDD	35822-46-9	17.8	B	0.0533	5.73	1
11031	OCDD	3268-87-9	231	B	0.0448	11.5	1
11031	2378-TCDF	51207-31-9	0.0411	JQ	0.0274	1.15	1
11031	12378-PeCDF	57117-41-6	0.143	JBQ	0.0143	5.73	1
11031	23478-PeCDF	57117-31-4	0.164	JB	0.0137	5.73	1
11031	123478-HxCDF	70648-26-9	0.182	JB	0.0207	5.73	1
11031	123678-HxCDF	57117-44-9	0.173	JBQ	0.0183	5.73	1
11031	123789-HxCDF	72918-21-9	0.132	JBQ	0.0231	5.73	1
11031	234678-HxCDF	60851-34-5	0.239	JB	0.0203	5.73	1
11031	1234678-HpCDF	67562-39-4	2.36	JB	0.0274	5.73	1
11031	1234789-HpCDF	55673-89-7	0.249	JBQ	0.0408	5.73	1
11031	OCDF	39001-02-0	6.33	JB	0.0251	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-061-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162939
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1818 SDG#: DX018-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SS-0.0-0.5

LLI Sample # SW 6162939
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:45

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1818 SDG#: DX018-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/31/2010 09:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162940
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1819 SDG#: DX018-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-070-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162940
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1819 SDG#: DX018-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0425	J	0.0186	1.18	1
11031	12378-PeCDD	40321-76-4	0.189	JBQ	0.0366	5.89	1
11031	123478-HxCDD	39227-28-6	0.270	JB	0.0261	5.89	1
11031	123678-HxCDD	57653-85-7	0.985	JB	0.0269	5.89	1
11031	123789-HxCDD	19408-74-3	0.625	JBQ	0.0264	5.89	1
11031	1234678-HpCDD	35822-46-9	22.9	B	0.0473	5.89	1
11031	OCDD	3268-87-9	273	B	0.0438	11.8	1
11031	2378-TCDF	51207-31-9	0.0689	JQ	0.0389	1.18	1
11031	12378-PeCDF	57117-41-6	0.214	JBQ	0.0181	5.89	1
11031	23478-PeCDF	57117-31-4	0.460	JB	0.0166	5.89	1
11031	123478-HxCDF	70648-26-9	0.567	JBQ	0.0211	5.89	1
11031	123678-HxCDF	57117-44-9	0.415	JB	0.0197	5.89	1
11031	123789-HxCDF	72918-21-9	0.248	JBQ	0.0223	5.89	1
11031	234678-HxCDF	60851-34-5	0.402	JB	0.0200	5.89	1
11031	1234678-HpCDF	67562-39-4	3.82	JB	0.0163	5.89	1
11031	1234789-HpCDF	55673-89-7	0.450	JB	0.0206	5.89	1
11031	OCDF	39001-02-0	6.75	JB	0.0218	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-070-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162940
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1819 SDG#: DX018-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SS-0.0-0.5

LLI Sample # SW 6162940
LLI Group # 1225038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 13:34

Submitted: 12/11/2010 09:40
Reported: 01/11/2011 18:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1819 SDG#: DX018-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10357002	12/31/2010 09:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162401B	12/15/2010 09:13	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225038
Reported: 01/11/11 at 06:50 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10349162401A	Sample number(s): 6162924-6162933								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10349162401B	Sample number(s): 6162934-6162940								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10357162401A	Sample number(s): 6162922-6162923								
28a Moisture Content by 160.3					99		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10357002	Sample number(s): 6162922-6162940								
2378-TCDD	0.0276 U	0.0276	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0565 J	0.0332	5.00	ng/kg	112		70-142		
123478-HxCDD	0.0392 J	0.0263	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0962 J	0.0268	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0393 J	0.0266	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.225 J	0.0420	5.00	ng/kg	99		70-140		
OCDD	0.461 J	0.0439	10.0	ng/kg	98		78-144		
2378-TCDF	0.0241 U	0.0241	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0326 J	0.0151	5.00	ng/kg	102		80-134		
23478-PeCDF	0.148 J	0.0153	5.00	ng/kg	101		68-160		
123478-HxCDF	0.100 J	0.0257	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0790 J	0.0211	5.00	ng/kg	96		84-130		
123789-HxCDF	0.137 J	0.0313	5.00	ng/kg	97		78-130		
234678-HxCDF	0.197 J	0.0249	5.00	ng/kg	99		70-156		
1234678-HpCDF	0.483 J	0.0189	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.172 J	0.0332	5.00	ng/kg	98		78-138		
OCDF	0.458 J	0.0512	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10349162401A	Sample number(s): 6162924-6162933					BKG: P154843			
28a Moisture Content by 160.3						20.4	27.1	28*	20
Batch number: 10349162401B	Sample number(s): 6162934-6162940					BKG: P162915			
28a Moisture Content by 160.3						13.7	13.5	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225038
Reported: 01/11/11 at 06:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10357162401A	Sample number(s): 6162922-6162923					BKG: P162818			
28a Moisture Content by 160.3						10	10.2	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 10357002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6162922	59	75	72	76	73	68
6162923	41	52	50	53	50	47
6162924	67	80	78	74	78	75
6162925	67	82	75	77	75	73
6162926	64	75	74	76	70	66
6162927	61	71	70	70	69	68
6162928	71	77	71	76	72	68
6162929	69	80	74	76	74	72
6162930	53	64	60	65	61	56
6162931	62	76	74	78	73	74
6162932	63	71	65	72	67	70
6162933	69	82	75	84	75	70
6162934	65	79	73	80	74	73
6162935	68	48	40	45	43	50
6162936	58	71	67	67	67	67
6162937	69	84	76	85	77	68
6162938	72	88	81	85	82	82
6162939	67	88	81	86	80	79
6162940	73	93	85	87	85	89
Blank	59	69	68	79	69	60
OPR	56	68	67	70	68	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6162922	81	67	59	68	70	70
6162923	55	45	38	47	49	47
6162924	87	78	76	75	77	75
6162925	80	74	69	72	76	74
6162926	80	68	60	71	72	70
6162927	70	65	56	66	68	67
6162928	86	68	62	74	77	74
6162929	80	72	64	75	76	75
6162930	72	59	53	59	61	60
6162931	83	73	68	69	73	72

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225038
Reported: 01/11/11 at 06:50 PM

Surrogate Quality Control

6162932	82	67	62	66	70	65
6162933	95	70	64	77	80	76
6162934	89	72	65	72	76	73
6162935	46	33	29	43	43	42
6162936	67	67	60	63	65	63
6162937	100	71	65	74	83	79
6162938	89	83	75	76	84	79
6162939	92	79	70	75	83	79
6162940	90	88	83	77	85	83
Blank	90	62	57	64	69	72
OPR	71	72	64	54	56	64
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6162922	70	69	69	61	62	75
6162923	48	48	45	40	44	53
6162924	74	74	79	76	73	73
6162925	73	72	75	73	72	81
6162926	70	68	68	62	68	75
6162927	66	66	64	57	67	68
6162928	74	75	75	70	73	80
6162929	74	74	75	69	73	81
6162930	60	59	62	58	58	67
6162931	71	72	75	70	69	79
6162932	66	70	71	69	69	82
6162933	76	74	79	74	73	90
6162934	71	71	75	72	69	84
6162935	41	43	40	38	54	50
6162936	63	63	63	56	64	69
6162937	80	79	82	77	70	92
6162938	79	79	82	76	76	89
6162939	79	77	80	75	74	89
6162940	83	82	85	81	81	91
Blank	71	70	70	67	60	76
OPR	64	65	66	66	62	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1225038 Sample# 6162922-40

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020/7000&7471A	*Hex Chrome EPA 7196@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-017-SA5C-SB-4.0-5.0	~~12.10.10~~ 12/9/10	1020	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	The collection date for SL-017-SA5C-SB-4.0-5.0 and SL-017-SA5C-SB-9.0-10.0 was updated to 12/9/10 per PB. NLM 1/5/11
SL-017-SA5C-SB-9.0-10.0	~~12.10.10~~ 12/9/10	1030	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-008-SA5B-SS-0.0-0.5	12/10/10	0822	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-009-SA5B-SS-0.0-0.5	12/10/10	0825	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
PB 12/10/10 ~~SL-048~~ SL-229-SA5B-SS-0.0-0.5	12/10/10	0912	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-229-SA5B-SS-0.0-0.5	12/10/10	0840	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
PB 12/10/10 ~~SL-047~~ SL-227-SA5B-SS-0.0-0.5	12/10/10	0903	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										

PB 12/10/10

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.10.10 1630		12/11/10 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill #s: 0072992 Tracking Number 869514317123		Cooler 2

acct#13013 Cp#1225038 sample#6162922-46

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-051-SA5B-SS-0.0-0.5	12.10.10	1320	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-052-SA5B-SS-0.0-0.5	12.10.10	1300	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-064-SA5B-SS-0.0-0.5	12.10.10	1315	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-232-SA5B-SS-0.0-0.5	12.10.10	1259	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-233-SA5B-SS-0.0-0.5	12.10.10	1246	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-299-SA5B-SS-0.0-0.5	12.10.10	1049	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-300-SA5B-SS-0.0-0.5	12.10.10	1104	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-067-SA5B-SS-0.0-0.5	12.10.10	1355	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-059-SA5B-SS-0.0-0.5	12.10.10	1424	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-065-SA5B-SS-0.0-0.5	12.10.10	1425	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-061-SA5B-SS-0.0-0.5	12.10.10	1345	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-070-SA5B-SS-0.0-0.5	12.10.10	1334	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										

Relinquished by: (Signature) — Date/Time: 12.10.10 1630

Received for Laboratory by: (Signature) — Date/Time: 12/11/10 0930

Received by: (Signature) — Date/Time:

Airbill No. 00737992
Tracking Number 869514317145

Laboratory: Lancaster Laboratories, Inc.

Cooler 4

869514317145

acct# 13013 Cap# 1225038 sample# 6162922-40

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature) Pamela Hartman

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260b	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-005-SA5C-SB-4.0-5.0	12.10.10	1529	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-005-SA5C-SB-9.0-10.0	12.10.10	1539	soil	none	3 x 16 oz. & 2 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	forgot to fill 3rd jar
SL-005-SA5C-SB-4.5	12.10.10	1525	soil	none	5 Encore samplers	X	X																						
SL-005-SA5C-SB-9.5	12.10.10	1535	soil	none	5 Encore samplers	X	X																						
SL-008-SA5C-SB-4.5	12.10.10	1215	soil	none	4 Encore samplers	X	X																						
SL-009-SA5C-SB-4.5	12.10.10	1415	soil	none	5 Encore samplers	X	X																						
SL-009-SA5C-SB-4.0-5.0	12.10.10	1419	soil	none	3 x 16 oz.			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	~~4 oz. jars to be shipped on 12/15/10~~ PB 12.10.10
SL-009-SA5C-SB-9.5	12.10.10	1423	soil	none	5 Encore samplers	X	X																						
SL-009-SA5C-SB-9.0-10.0	12.10.10	1428	soil	none	3 x 16 oz.			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-010-SA5C-SB-4.5	12.10.10	1050	soil	none	5 Encore samplers	X	X																						
SL-010-SA5C-SB-9.5	12.10.10	1059	soil	none	5 Encore samplers	X	X																						
SL-011-SA5C-SB-4.5	12.10.10	0935	soil	none	5 Encore samplers	X	X																						
SL-011-SA5C-SB-9.5	12.10.10	0943	soil	none	5 Encore samplers	X	X																						

Relinquished by: (Signature) — Date/Time: 12.10.10 1630 — Received for Laboratory by: (Signature) — Date/Time: 12/11/10 0910

Received by: (Signature) — Date/Time:

Airbill No. 007782982
Tracking Number 869514317156

Laboratory: Lancaster Laboratories, Inc.

Cooler 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/11/2010
Group Number: 1225039
SDG: DE035
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-011-SA5C-SB-4.0-5.0 Soil	6162941
SL-011-SA5C-SB-9.0-10.0 Soil	6162942
SL-288-SA5B-SS-0.0-0.5 Soil	6162943
SL-288-SA5B-SS-0.0-0.5MS Soil	6162944
SL-288-SA5B-SS-0.0-0.5MSD Soil	6162945
SL-288-SA5B-SS-0.0-0.5DUP Soil	6162946
SL-290-SA5B-SS-0.0-0.5 Soil	6162947
DUP03-SA5B-QC-121010 Soil	6162948
SL-010-SA5C-SB-4.0-5.0 Soil	6162949
SL-010-SA5C-SB-9.0-10.0 Soil	6162950
SL-008-SA5C-SB-4.0-5.0 Soil	6162951
SL-008-SA5C-SB-8.0-9.0 Soil	6162952
SL-057-SA5B-SS-0.0-0.5 Soil	6162953
SL-234-SA5B-SS-0.0-0.5 Soil	6162954
SL-235-SA5B-SS-0.0-0.5 Soil	6162955
SL-287-SA5B-SS-0.0-0.5 Soil	6162956
SL-005-SA5C-SB-4.0-5.0 Soil	6162957
SL-005-SA5C-SB-9.0-10.0 Soil	6162958
SL-009-SA5C-SB-4.0-5.0 Soil	6162959
SL-009-SA5C-SB-9.0-10.0 Soil	6162960

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3501 SDG#: DE035-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.3		0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.95
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.95
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.95
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.95
06192	Methylene Chloride	75-09-2	0.94	J	0.25	4.2		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3501 SDG#: DE035-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.95
06192	Toluene	108-88-3	0.11	J	0.08	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		23.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.3	U	18.3	36.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3501 SDG#: DE035-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.9		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	2.5		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-011-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3501 SDG#: DE035-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	2.5		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.72
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	84	U	84	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3501 SDG#: DE035-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	2.7		0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.64	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C21-C30)	n.a.	25		0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	75		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	230	J	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.43	21.6		1
07914	Boron	7440-42-8	7.01		0.960	5.39		1
01650	Calcium	7440-70-2	3,650		6.61	21.6		1
01654	Iron	7439-89-6	19,200		5.08	21.6		1

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Sample Description: **SL-011-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3501 SDG#: DE035-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	18.6		0.24	2.2		1
01657	Magnesium	7439-95-4	3,810		2.74	10.8		1
06958	Manganese	7439-96-5	253		0.0841	0.539		1
10145	Phosphorus	7723-14-0	296		0.604	10.8		1
01662	Potassium	7440-09-7	2,600		19.4	53.9		1
01667	Sodium	7440-23-5	215		40.2	108		1
07968	Strontium	7440-24-6	19.3		0.0669	0.539		1
06969	Tin	7440-31-5	2.43	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,170		0.418	1.10		1
10146	Zirconium	7440-67-7	0.930	J	0.906	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.219		0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.91		0.0647	0.431		2
06126	Barium	7440-39-3	129		0.116	0.431		2
06127	Beryllium	7440-41-7	0.804		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.176		0.0388	0.108		2
06131	Chromium	7440-47-3	23.9		0.129	0.431		2
06132	Cobalt	7440-48-4	7.33		0.0216	0.108		2
06133	Copper	7440-50-8	10.5		0.0712	0.431		2
06135	Lead	7439-92-1	9.04		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.860		0.0539	0.108		2
06139	Nickel	7440-02-0	13.8		0.108	0.431		2
06141	Selenium	7782-49-2	0.213	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0422	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.424		0.0324	0.108		2
06148	Vanadium	7440-62-2	50.2		0.0237	0.108		2
06149	Zinc	7440-66-6	83.8		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.88	U	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1

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Sample Description: SL-011-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3501 SDG#: DE035-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.						
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	446	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.45	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 00:35	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 00:10	Sara E Johnson	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 18:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:11	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010 19:11	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010 18:36	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	12/30/2010 21:56	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 01:09	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/22/2010 13:16	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1

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SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
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D3501 SDG#: DE035-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 13:58	Elizabeth J Marin	23.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 18:36	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 22:21	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 01:19	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 00:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/29/2010 22:07	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 18:07	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 16:42	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103570035A	12/25/2010 07:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103570035A	12/24/2010 03:55	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 15:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 07:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 07:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 11:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2

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Sample Description: **SL-011-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162941
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3501 SDG#: DE035-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 11:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 11:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 11:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 00:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201A	12/30/2010 00:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 06:40	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10358243201A	12/29/2010 09:47	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103A	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403A	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.93
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.93
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.93
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.93
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.93
06192	Methylene Chloride	75-09-2	1.0	J	0.24	4.0		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.93

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Sample Description: **SL-011-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.93
06192	Toluene	108-88-3	0.09	J	0.08	4.0		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.52
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1

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Sample Description: SL-011-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.60	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.74	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.78	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.02
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81	U	81	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U	54	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	320	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	320	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	54	U	54	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	54	U	54	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	54	U	54	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	54	U	54	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,200	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,200	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	83	U	83	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54	U	54	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U	54	160	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	2.1		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.48	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	8.0		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	15		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	200	J	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.23	20.8		1
07914	Boron	7440-42-8	6.02		0.926	5.20		1
01650	Calcium	7440-70-2	3,630		6.38	20.8		1
01654	Iron	7439-89-6	18,700		4.90	20.8		1

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Sample Description: **SL-011-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	19.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,730		2.64	10.4		1
06958	Manganese	7439-96-5	251		0.0812	0.520		1
10145	Phosphorus	7723-14-0	376		0.583	10.4		1
01662	Potassium	7440-09-7	2,630		18.7	52.0		1
01667	Sodium	7440-23-5	173		38.8	104		1
07968	Strontium	7440-24-6	18.1		0.0645	0.520		1
06969	Tin	7440-31-5	2.21	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,120		0.411	1.08		1
10146	Zirconium	7440-67-7	0.874	U	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.44		0.0637	0.424		2
06126	Barium	7440-39-3	104		0.115	0.424		2
06127	Beryllium	7440-41-7	0.465		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.125		0.0382	0.106		2
06131	Chromium	7440-47-3	14.7		0.127	0.424		2
06132	Cobalt	7440-48-4	5.78		0.0212	0.106		2
06133	Copper	7440-50-8	8.60		0.0700	0.424		2
06135	Lead	7439-92-1	5.62		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.520		0.0531	0.106		2
06139	Nickel	7440-02-0	9.10		0.106	0.424		2
06141	Selenium	7782-49-2	0.132	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0214	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.288		0.0318	0.106		2
06148	Vanadium	7440-62-2	39.0		0.0233	0.106		2
06149	Zinc	7440-66-6	70.2		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1

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Sample Description: SL-011-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.						
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	455	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.60	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 00:58	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 00:29	Sara E Johnson	22.52
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 18:40	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010 18:40	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	12/30/2010 22:13	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 01:35	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/22/2010 13:50	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1

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Sample Description: SL-011-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 14:35	Elizabeth J Marin	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 18:40	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 23:03	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 01:29	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 01:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 17:26	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 18:22	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/16/2010 16:57	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 18:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 15:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 07:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 07:55	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 11:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2

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Sample Description: **SL-011-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162942
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3502 SDG#: DE035-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 11:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 11:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 11:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 01:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201A	12/30/2010 01:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 07:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10358243201A	12/29/2010 10:00	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103A	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403A	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-288-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162943
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-288-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162943
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.84	J	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	2.6		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	2.8		0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.99	J	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.6	J	0.70	1.7		1
10138	Pyrene	129-00-0	2.2		0.70	1.7		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	290	U	290	290		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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Sample Description: SL-288-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162943
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.086	U	0.086	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.084	U	0.084	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.24	U	0.24	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8		1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8		1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	1.2	J	0.34	1.8		1
10225	PCB-1260	11096-82-5	3.8		0.34	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	3,760		5.10	20.3		1

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Sample Description: **SL-288-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162943
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.02	J	0.903	5.07		1
01650	Calcium	7440-70-2	7,300		6.22	20.3		1
01654	Iron	7439-89-6	5,330		4.78	20.3		1
01656	Lithium	7439-93-2	3.2		0.22	2.0		1
01657	Magnesium	7439-95-4	1,030		2.58	10.1		1
06958	Manganese	7439-96-5	104		0.0791	0.507		1
10145	Phosphorus	7723-14-0	320		0.568	10.1		1
01662	Potassium	7440-09-7	595		18.3	50.7		1
01667	Sodium	7440-23-5	51.4	J	37.8	101		1
07968	Strontium	7440-24-6	14.8		0.0629	0.507		1
06969	Tin	7440-31-5	1.85	J	1.01	10.1		1
06970	Titanium	7440-32-6	310		0.378	0.995		1
10146	Zirconium	7440-67-7	2.52	J	0.852	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.366		0.0615	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.22		0.0615	0.410		2
06126	Barium	7440-39-3	21.9		0.111	0.410		2
06127	Beryllium	7440-41-7	0.161		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.0987	J	0.0369	0.102		2
06131	Chromium	7440-47-3	13.2		0.123	0.410		2
06132	Cobalt	7440-48-4	2.34		0.0205	0.102		2
06133	Copper	7440-50-8	3.30		0.0676	0.410		2
06135	Lead	7439-92-1	1.78		0.0107	0.205		2
06138	Molybdenum	7439-98-7	0.841		0.0512	0.102		2
06139	Nickel	7440-02-0	7.44		0.102	0.410		2
06141	Selenium	7782-49-2	0.193	J	0.0410	0.410		2
06142	Silver	7440-22-4	0.0123	U	0.0123	0.102		2
06145	Thallium	7440-28-0	0.0604	J	0.0307	0.102		2
06148	Vanadium	7440-62-2	15.3		0.0225	0.102		2
06149	Zinc	7440-66-6	13.0		0.574	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

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Sample Description: **SL-288-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162943
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	439	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.71	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	12/31/2010 23:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/22/2010 11:35	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	12/20/2010 19:44	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 18:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 01:20	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 15:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1

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Sample Description: **SL-288-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

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D3503 SDG#: DE035-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:02	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 07:29	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 07:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 11:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 11:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 11:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 11:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 00:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 02:39	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 10:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-288-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162944
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,700		17	170		1
04688	Aniline	62-53-3	960		170	520		1
04688	Anthracene	120-12-7	1,600		17	170		1
04688	Benzidine	92-87-5	3,400	J	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,500		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	850		170	520		1
04688	Benzyl alcohol	100-51-6	1,800		170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,700		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		35	170		1
04688	4-Chloroaniline	106-47-8	950		70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	170		1
04688	Chrysene	218-01-9	1,700		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	730		100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,700		17	170		1
04688	Diethylphthalate	84-66-2	1,700		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,800		35	170		1
04688	3,5-Dimethylphenol	108-68-9	1,800		35	170		1
04688	Dimethylphthalate	131-11-3	1,700		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		170	520		1
04688	2,4-Dinitrophenol	51-28-5	2,000	J	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	350		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	1,700		17	170		1
04688	Hexachlorobenzene	118-74-1	1,600		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,400		70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,500		170	520		1
04688	Hexachloroethane	67-72-1	1,500		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		17	170		1
04688	Isophorone	78-59-1	1,600		17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-288-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162944
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,500	17	170		1
04688	2-Methylphenol	95-48-7	1,800	35	170		1
04688	4-Methylphenol	106-44-5	1,700	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	17	170		1
04688	2-Nitroaniline	88-74-4	1,700	17	170		1
04688	3-Nitroaniline	99-09-2	1,600	35	170		1
04688	4-Nitroaniline	100-01-6	1,300	70	170		1
04688	Nitrobenzene	98-95-3	1,600	17	170		1
04688	2-Nitrophenol	88-75-5	1,600	17	170		1
04688	4-Nitrophenol	100-02-7	1,600	170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	17	170		1
04688	Pentachlorophenol	87-86-5	1,100	170	520		1
04688	Phenanthrene	85-01-8	1,700	17	170		1
04688	Phenol	108-95-2	1,700	17	170		1
04688	Pyrene	129-00-0	1,800	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	35	170		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33	0.70	1.7		1
10138	Acenaphthylene	208-96-8	34	0.35	1.7		1
10138	Anthracene	120-12-7	36	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	36	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	34	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	40	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	25	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	30	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	39	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	40	6.3	19		1
10138	Chrysene	218-01-9	34	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	29	0.70	1.7		1
10138	Diethylphthalate	84-66-2	39	6.3	19		1
10138	Dimethylphthalate	131-11-3	37	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	97	6.3	19		1
10138	Fluoranthene	206-44-0	40	0.70	1.7		1
10138	Fluorene	86-73-7	35	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	34	0.70	1.7		1

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Sample Description: SL-288-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162944
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	31		0.70	1.7		1
10138	Naphthalene	91-20-3	32		0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	37		6.3	19		1
10138	Phenanthrene	85-01-8	34		0.70	1.7		1
10138	Pyrene	129-00-0	33		0.70	1.7		1
The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 6.1 ug/kg bis(2-ethylhexyl)phthalate 6.7 ug/kg These blank values were not subtracted from the analytical results.								
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.6		1.3	3.8		1
10401	Dalapon	75-99-0	17		4.6	9.4		1
10401	2,4-DB	94-82-6	10		0.65	1.8		1
10401	Dicamba	1918-00-9	0.95	J	0.42	1.3		1
10401	Dinoseb	88-85-7	1.5	J	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.9		0.84	1.8		1
10401	MCPA	94-74-6	970		79	260		1
10401	MCPP (Mecoprop)	93-65-2	1,100		78	260		1
10401	2,4,5-T	93-76-5	0.75		0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.70		0.078	0.18		1
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.25		0.069	0.18		1
01363	Alpha BHC	319-84-6	0.34		0.036	0.18		1
01363	Beta BHC	319-85-7	0.29		0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.34		0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.77		0.069	0.36		1
01363	p,p-DDE	72-55-9	0.59		0.069	0.36		1
01363	p,p-DDT	50-29-3	0.73		0.069	0.36		1
01363	Delta BHC	319-86-8	0.31		0.038	0.18		1
01363	Dieldrin	60-57-1	0.70		0.069	0.36		1
01363	Endosulfan I	959-98-8	0.26		0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.46		0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.56		0.069	0.36		1
01363	Endrin	72-20-8	0.71		0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.50		0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.53		0.069	0.36		1
01363	Heptachlor	76-44-8	0.41		0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.26		0.036	0.18		1
01363	Methoxychlor	72-43-5	3.8		0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

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Sample Description: SL-288-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162944
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	17		0.34	1.8		1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8		1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8		1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	3.4		0.34	1.8		1
10225	PCB-1260	11096-82-5	18		0.34	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,270		5.20	20.7		1
07914	Boron	7440-42-8	197		0.921	5.17		1
01650	Calcium	7440-70-2	10,600		6.34	20.7		1
01654	Iron	7439-89-6	5,440		4.87	20.7		1
01656	Lithium	7439-93-2	109		0.23	2.1		1
01657	Magnesium	7439-95-4	1,330		2.63	10.3		1
06958	Manganese	7439-96-5	188		0.0807	0.517		1
10145	Phosphorus	7723-14-0	509		0.579	10.3		1
01662	Potassium	7440-09-7	1,840		18.6	51.7		1
01667	Sodium	7440-23-5	1,140		38.6	103		1
07968	Strontium	7440-24-6	128		0.0641	0.517		1
06969	Tin	7440-31-5	415		1.03	10.3		1
06970	Titanium	7440-32-6	517		0.378	0.995		1
10146	Zirconium	7440-67-7	109		0.869	5.17		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.42		0.0621	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.02		0.0621	0.414		2
06126	Barium	7440-39-3	41.0		0.112	0.414		2
06127	Beryllium	7440-41-7	1.22		0.0166	0.103		2
06128	Cadmium	7440-43-9	1.64		0.0372	0.103		2
06131	Chromium	7440-47-3	29.5		0.124	0.414		2
06132	Cobalt	7440-48-4	72.0		0.0207	0.103		2
06133	Copper	7440-50-8	17.5		0.0683	0.414		2
06135	Lead	7439-92-1	6.81		0.0108	0.207		2
06138	Molybdenum	7439-98-7	16.6		0.0517	0.103		2
06139	Nickel	7440-02-0	22.3		0.103	0.414		2
06141	Selenium	7782-49-2	2.98		0.0414	0.414		2
06142	Silver	7440-22-4	15.4		0.0124	0.103		2
06145	Thallium	7440-28-0	0.677		0.0310	0.103		2

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Sample Description: SL-288-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162944
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	32.7	0.0228	0.103		2
06149	Zinc	7440-66-6	31.5	0.579	3.10		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.155	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.2	0.84	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	510	9.4	31.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	37.5	1.0	5.2		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	12/31/2010 23:53	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/22/2010 12:08	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	12/20/2010 20:11	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 18:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 01:39	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-288-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162944
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/21/2010 07:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 07:39	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 07:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 11:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 11:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 11:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 11:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 00:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 03:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10358243201A	12/29/2010 11:57	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-288-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162945
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170		1
04688	Acenaphthylene	208-96-8	1,700		17	170		1
04688	Aniline	62-53-3	1,300		170	520		1
04688	Anthracene	120-12-7	1,600		17	170		1
04688	Benzidine	92-87-5	4,000		1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,500		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,500		17	170		1
04688	Benzoic acid	65-85-0	400	J	170	520		1
04688	Benzyl alcohol	100-51-6	1,700		170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,700		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		35	170		1
04688	4-Chloroaniline	106-47-8	1,200		70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	170		1
04688	Chrysene	218-01-9	1,700		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,400		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,800		35	170		1
04688	3,5-Dimethylphenol	108-68-9	1,700		35	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		170	520		1
04688	2,4-Dinitrophenol	51-28-5	2,000	J	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,600		35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	350		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	1,700		17	170		1
04688	Hexachlorobenzene	118-74-1	1,600		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,500		70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,200		170	520		1
04688	Hexachloroethane	67-72-1	1,500		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,400		17	170		1
04688	Isophorone	78-59-1	1,700		17	170		1

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Sample Description: SL-288-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162945
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,500	17	170		1
04688	2-Methylphenol	95-48-7	1,800	35	170		1
04688	4-Methylphenol	106-44-5	1,700	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	17	170		1
04688	2-Nitroaniline	88-74-4	1,600	17	170		1
04688	3-Nitroaniline	99-09-2	1,600	35	170		1
04688	4-Nitroaniline	100-01-6	1,300	70	170		1
04688	Nitrobenzene	98-95-3	1,600	17	170		1
04688	2-Nitrophenol	88-75-5	1,600	17	170		1
04688	4-Nitrophenol	100-02-7	1,500	170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	17	170		1
04688	Pentachlorophenol	87-86-5	1,100	170	520		1
04688	Phenanthrene	85-01-8	1,600	17	170		1
04688	Phenol	108-95-2	1,600	17	170		1
04688	Pyrene	129-00-0	1,700	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	35	170		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33	0.70	1.7		1
10138	Acenaphthylene	208-96-8	34	0.35	1.7		1
10138	Anthracene	120-12-7	35	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	35	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	34	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	40	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	26	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	29	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	39	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	40	6.3	19		1
10138	Chrysene	218-01-9	34	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	29	0.70	1.7		1
10138	Diethylphthalate	84-66-2	40	6.3	19		1
10138	Dimethylphthalate	131-11-3	37	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	6.3	19		1
10138	Fluoranthene	206-44-0	38	0.70	1.7		1
10138	Fluorene	86-73-7	35	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	34	0.70	1.7		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-288-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162945
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	30		0.70	1.7		1
10138	Naphthalene	91-20-3	32		0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	37		6.3	19		1
10138	Phenanthrene	85-01-8	33		0.70	1.7		1
10138	Pyrene	129-00-0	33		0.70	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of:							
	di-n-butylphthalate 6.1 ug/kg							
	bis(2-ethylhexyl)phthalate 6.7 ug/kg							
	These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.4		1.3	3.8		1
10401	Dalapon	75-99-0	19		4.6	9.4		1
10401	2,4-DB	94-82-6	10		0.65	1.8		1
10401	Dicamba	1918-00-9	0.98	J	0.42	1.3		1
10401	Dinoseb	88-85-7	1.7	J	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.9		0.84	1.8		1
10401	MCPA	94-74-6	1,100		79	260		1
10401	MCPP (Mecoprop)	93-65-2	1,100		78	260		1
10401	2,4,5-T	93-76-5	0.82		0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.72		0.078	0.18		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.28		0.069	0.18		1
01363	Alpha BHC	319-84-6	0.38		0.036	0.18		1
01363	Beta BHC	319-85-7	0.32		0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.38		0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.86		0.069	0.36		1
01363	p,p-DDE	72-55-9	0.66		0.069	0.36		1
01363	p,p-DDT	50-29-3	0.83		0.069	0.36		1
01363	Delta BHC	319-86-8	0.36		0.038	0.18		1
01363	Dieldrin	60-57-1	0.77		0.069	0.36		1
01363	Endosulfan I	959-98-8	0.28		0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.50		0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.62		0.069	0.36		1
01363	Endrin	72-20-8	0.79		0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.56		0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.55		0.069	0.36		1
01363	Heptachlor	76-44-8	0.47		0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.29		0.036	0.18		1
01363	Methoxychlor	72-43-5	4.2		0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-288-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162945
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	17		0.34	1.8		1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8		1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8		1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	3.7		0.34	1.8		1
10225	PCB-1260	11096-82-5	19		0.34	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,030		5.20	20.7		1
07914	Boron	7440-42-8	201		0.921	5.17		1
01650	Calcium	7440-70-2	15,300		6.34	20.7		1
01654	Iron	7439-89-6	5,320		4.87	20.7		1
01656	Lithium	7439-93-2	111		0.23	2.1		1
01657	Magnesium	7439-95-4	1,290		2.63	10.3		1
06958	Manganese	7439-96-5	149		0.0807	0.517		1
10145	Phosphorus	7723-14-0	465		0.579	10.3		1
01662	Potassium	7440-09-7	1,820		18.6	51.7		1
01667	Sodium	7440-23-5	1,210		38.6	103		1
07968	Strontium	7440-24-6	136		0.0641	0.517		1
06969	Tin	7440-31-5	415		1.03	10.3		1
06970	Titanium	7440-32-6	482		0.382	1.00		1
10146	Zirconium	7440-67-7	110		0.869	5.17		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.24		0.0615	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.10		0.0615	0.410		2
06126	Barium	7440-39-3	37.3		0.111	0.410		2
06127	Beryllium	7440-41-7	1.12		0.0164	0.102		2
06128	Cadmium	7440-43-9	1.49		0.0369	0.102		2
06131	Chromium	7440-47-3	25.2		0.123	0.410		2
06132	Cobalt	7440-48-4	63.4		0.0205	0.102		2
06133	Copper	7440-50-8	15.2		0.0676	0.410		2
06135	Lead	7439-92-1	6.00		0.0107	0.205		2
06138	Molybdenum	7439-98-7	14.8		0.0512	0.102		2
06139	Nickel	7440-02-0	19.6		0.102	0.410		2
06141	Selenium	7782-49-2	2.45		0.0410	0.410		2
06142	Silver	7440-22-4	13.8		0.0123	0.102		2
06145	Thallium	7440-28-0	0.590		0.0307	0.102		2

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Analysis Report

Sample Description: SL-288-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162945
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	29.6	0.0225	0.102		2
06149	Zinc	7440-66-6	27.7	0.574	3.07		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.161	0.0030	0.103		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 00:19	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/22/2010 12:42	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	12/20/2010 20:39	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 19:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 01:58	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/21/2010 07:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162945
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 07:43	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 07:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 11:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 11:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 11:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 11:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Analysis Report

Sample Description: SL-288-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162946
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	3,000		5.26	20.9		1
07914	Boron	7440-42-8	2.61	J	0.930	5.22		1
01650	Calcium	7440-70-2	7,730		6.41	20.9		1
01654	Iron	7439-89-6	4,870		4.92	20.9		1
01656	Lithium	7439-93-2	2.5		0.23	2.1		1
01657	Magnesium	7439-95-4	922		2.65	10.4		1
06958	Manganese	7439-96-5	167		0.0815	0.522		1
10145	Phosphorus	7723-14-0	293		0.585	10.4		1
01662	Potassium	7440-09-7	547		18.8	52.2		1
01667	Sodium	7440-23-5	44.6	J	39.0	104		1
07968	Strontium	7440-24-6	13.8		0.0648	0.522		1
06969	Tin	7440-31-5	1.47	J	1.04	10.4		1
06970	Titanium	7440-32-6	338		0.382	1.00		1
10146	Zirconium	7440-67-7	2.39	J	0.878	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.80		0.0627	0.418		2
06126	Barium	7440-39-3	18.4		0.113	0.418		2
06127	Beryllium	7440-41-7	0.118		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0652	J	0.0376	0.104		2
06131	Chromium	7440-47-3	10.0		0.125	0.418		2
06132	Cobalt	7440-48-4	1.85		0.0209	0.104		2
06133	Copper	7440-50-8	2.63		0.0690	0.418		2
06135	Lead	7439-92-1	1.49		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.601		0.0522	0.104		2
06139	Nickel	7440-02-0	5.84		0.104	0.418		2
06141	Selenium	7782-49-2	0.188	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.0125	U	0.0125	0.104		2
06145	Thallium	7440-28-0	0.0327	J	0.0313	0.104		2
06148	Vanadium	7440-62-2	11.9		0.0230	0.104		2
06149	Zinc	7440-66-6	10.7		0.585	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-288-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162946
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	439	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.73	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	4.4	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 15:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:09	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 07:35	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 07:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 11:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162946
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3503 SDG#: DE035-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 11:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 11:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 11:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 00:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 03:03	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 12:29	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-290-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162947
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3504 SDG#: DE035-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162947
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3504 SDG#: DE035-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.2	U	7.2	18		1
10138	Acenaphthylene	208-96-8	3.6	U	3.6	18		1
10138	Anthracene	120-12-7	3.6	U	3.6	18		1
10138	Benzo(a)anthracene	56-55-3	7.2	U	7.2	18		1
10138	Benzo(a)pyrene	50-32-8	9.1	J	7.2	18		1
10138	Benzo(b)fluoranthene	205-99-2	24		7.2	18		1
10138	Benzo(g,h,i)perylene	191-24-2	39		7.2	18		1
10138	Benzo(k)fluoranthene	207-08-9	19		7.2	18		1
10138	Chrysene	218-01-9	15	J	3.6	18		1
10138	Dibenz(a,h)anthracene	53-70-3	7.2	U	7.2	18		1
10138	Fluoranthene	206-44-0	7.2	U	7.2	18		1
10138	Fluorene	86-73-7	7.2	U	7.2	18		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.2	U	7.2	18		1
10138	1-Methylnaphthalene	90-12-0	7.2	U	7.2	18		1
10138	2-Methylnaphthalene	91-57-6	7.2	U	7.2	18		1
10138	Naphthalene	91-20-3	7.2	U	7.2	18		1
10138	N-Nitrosodimethylamine	62-75-9	7.2	U	7.2	18		1
10138	Phenanthrene	85-01-8	7.2	U	7.2	18		1
10138	Pyrene	129-00-0	7.2	U	7.2	18		1
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	2.8		0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	600		80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1

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Sample Description: SL-290-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162947
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3504 SDG#: DE035-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.36		1
01363	p,p-DDT	50-29-3	0.21	J	0.071	0.36		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,200		5.40	21.5		1
07914	Boron	7440-42-8	6.47		0.955	5.36		1
01650	Calcium	7440-70-2	4,250		6.58	21.5		1
01654	Iron	7439-89-6	13,300		5.05	21.5		1
01656	Lithium	7439-93-2	8.3		0.24	2.1		1
01657	Magnesium	7439-95-4	3,180		2.73	10.7		1
06958	Manganese	7439-96-5	171		0.0837	0.536		1
10145	Phosphorus	7723-14-0	603		0.601	10.7		1
01662	Potassium	7440-09-7	1,780		19.3	53.6		1

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Sample Description: **SL-290-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162947
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3504 SDG#: DE035-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	258		40.0	107		1
07968	Strontium	7440-24-6	55.9		0.0665	0.536		1
06969	Tin	7440-31-5	1.46	J	1.07	10.7		1
06970	Titanium	7440-32-6	869		0.388	1.02		1
10146	Zirconium	7440-67-7	4.03	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.269		0.0625	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.66		0.0625	0.417		2
06126	Barium	7440-39-3	130		0.113	0.417		2
06127	Beryllium	7440-41-7	0.288		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.232		0.0375	0.104		2
06131	Chromium	7440-47-3	31.1		0.125	0.417		2
06132	Cobalt	7440-48-4	5.60		0.0208	0.104		2
06133	Copper	7440-50-8	9.95		0.0688	0.417		2
06135	Lead	7439-92-1	5.21		0.0108	0.208		2
06138	Molybdenum	7439-98-7	2.37		0.0521	0.104		2
06139	Nickel	7440-02-0	14.8		0.104	0.417		2
06141	Selenium	7782-49-2	0.180	J	0.0417	0.417		2
06142	Silver	7440-22-4	0.0258	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.166		0.0313	0.104		2
06148	Vanadium	7440-62-2	42.1		0.0229	0.104		2
06149	Zinc	7440-66-6	43.4		0.583	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	421		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.84		0.0100	0.0100		1

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Sample Description: **SL-290-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162947
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3504 SDG#: DE035-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 02:00	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/22/2010 14:25	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	01/06/2011 19:08	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 19:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 02:16	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:04	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 07:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-290-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162947
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3504 SDG#: DE035-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 01:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10357357201B	12/28/2010 07:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 12:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10357357201B	12/23/2010 19:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA5B-QC-121010 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162948
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D35-5 SDG#: DE035-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP03-SA5B-QC-121010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162948
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D35-5 SDG#: DE035-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.95	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	1.6	J	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.71	J	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.84	J	0.70	1.8		1
10138	Pyrene	129-00-0	1.3	J	0.70	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	180	U	180	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP03-SA5B-QC-121010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162948
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D35-5 SDG#: DE035-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.069	U	0.069	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.10	J	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.78	J	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	2.1		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	3,240		5.28	21.0		1
07914	Boron	7440-42-8	2.88	J	0.935	5.25		1
01650	Calcium	7440-70-2	8,080		6.44	21.0		1
01654	Iron	7439-89-6	5,290		4.95	21.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA5B-QC-121010 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162948
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D35-5 SDG#: DE035-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	2.9		0.23	2.1		1
01657	Magnesium	7439-95-4	1,010		2.67	10.5		1
06958	Manganese	7439-96-5	105		0.0819	0.525		1
10145	Phosphorus	7723-14-0	357		0.588	10.5		1
01662	Potassium	7440-09-7	627		18.9	52.5		1
01667	Sodium	7440-23-5	54.3	J	39.2	105		1
07968	Strontium	7440-24-6	15.4		0.0651	0.525		1
06969	Tin	7440-31-5	1.80	J	1.05	10.5		1
06970	Titanium	7440-32-6	291		0.395	1.04		1
10146	Zirconium	7440-67-7	2.03	J	0.882	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0618	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.76		0.0618	0.412		2
06126	Barium	7440-39-3	24.2		0.111	0.412		2
06127	Beryllium	7440-41-7	0.149		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.110		0.0371	0.103		2
06131	Chromium	7440-47-3	13.7		0.124	0.412		2
06132	Cobalt	7440-48-4	2.52		0.0206	0.103		2
06133	Copper	7440-50-8	4.05		0.0680	0.412		2
06135	Lead	7439-92-1	5.42		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.826		0.0515	0.103		2
06139	Nickel	7440-02-0	8.00		0.103	0.412		2
06141	Selenium	7782-49-2	0.117	J	0.0412	0.412		2
06142	Silver	7440-22-4	0.0124	U	0.0124	0.103		2
06145	Thallium	7440-28-0	0.0571	J	0.0309	0.103		2
06148	Vanadium	7440-62-2	16.5		0.0227	0.103		2
06149	Zinc	7440-66-6	15.6		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	416		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP03-SA5B-QC-121010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162948
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D35-5 SDG#: DE035-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.70	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 02:26	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/22/2010 22:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	12/20/2010 21:34	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 19:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 02:35	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1

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Analysis Report

Sample Description: DUP03-SA5B-QC-121010 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162948
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D35-5 SDG#: DE035-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 01:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 00:41	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 12:55	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-010-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162949
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:54

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3506 SDG#: DE035-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.88
06192	Methylene Chloride	75-09-2	1.6	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162949
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:54

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3506 SDG#: DE035-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.15	J	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		24.18
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	109		38.1	76.1		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162949
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:54

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3506 SDG#: DE035-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.3	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	4.4		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.1		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.4		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.9	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	4.1		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	10		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.99	J	0.76	1.9		1

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SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162949
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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D3506 SDG#: DE035-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	5.7		0.76	1.9		1
10138	Pyrene	129-00-0	7.5		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.12
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U	86	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	71	U	71	170	10000000	1
10132	Tetryl	479-45-8	87	U	87	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1

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D3506 SDG#: DE035-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	14		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	51		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	210	J	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.63	22.4		1
07914	Boron	7440-42-8	8.39		0.996	5.60		1
01650	Calcium	7440-70-2	6,100		6.86	22.4		1
01654	Iron	7439-89-6	24,000		5.27	22.4		1

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SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162949
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D3506 SDG#: DE035-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	20.8		0.25	2.2		1
01657	Magnesium	7439-95-4	4,620		2.84	11.2		1
06958	Manganese	7439-96-5	310		0.0873	0.560		1
10145	Phosphorus	7723-14-0	338		0.627	11.2		1
01662	Potassium	7440-09-7	2,870		20.1	56.0		1
01667	Sodium	7440-23-5	253		41.7	112		1
07968	Strontium	7440-24-6	26.7		0.0694	0.560		1
06969	Tin	7440-31-5	2.55	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,330		0.417	1.10		1
10146	Zirconium	7440-67-7	1.94	J	0.940	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.89		0.0672	0.448		2
06126	Barium	7440-39-3	139		0.121	0.448		2
06127	Beryllium	7440-41-7	0.815		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.257		0.0403	0.112		2
06131	Chromium	7440-47-3	27.2		0.134	0.448		2
06132	Cobalt	7440-48-4	7.94		0.0224	0.112		2
06133	Copper	7440-50-8	11.8		0.0739	0.448		2
06135	Lead	7439-92-1	9.92		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.952		0.0560	0.112		2
06139	Nickel	7440-02-0	16.0		0.112	0.448		2
06141	Selenium	7782-49-2	0.178	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0461	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.417		0.0336	0.112		2
06148	Vanadium	7440-62-2	56.8		0.0246	0.112		2
06149	Zinc	7440-66-6	87.5		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.8		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1

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SL-010-SA5C-SB-4.0-5.0

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D3506 SDG#: DE035-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.						
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	471	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.44	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-010-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	01:20	Laura M Krieger	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	00:49	Sara E Johnson	24.18
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010	18:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010	18:45	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011	15:05	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011	02:51	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/22/2010	23:31	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010	14:45	Olivia I Santiago	1

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D3506 SDG#: DE035-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 15:11	Elizabeth J Marin	22.12
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 18:44	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/16/2010 23:46	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 01:38	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 02:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 19:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 18:37	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 15:22	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 12:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162949
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:54

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3506 SDG#: DE035-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 01:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201A	12/30/2010 01:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 02:17	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 13:08	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:36	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3507 SDG#: DE035-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.9
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	9.4		0.39	7.9		0.9
06192	Methylene Chloride	75-09-2	1.5	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3507 SDG#: DE035-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.12	J	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	70.0	J	36.5	73.0		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3507 SDG#: DE035-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.92	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.84	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.2	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	1.5	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-010-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3507 SDG#: DE035-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.78	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	1.4	J	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.13
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1

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Sample Description: SL-010-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3507 SDG#: DE035-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	J	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.44	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.49	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	15		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	60		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	180	J	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.45	21.7		1
07914	Boron	7440-42-8	8.15		0.965	5.42		1
01650	Calcium	7440-70-2	3,780		6.65	21.7		1
01654	Iron	7439-89-6	21,500		5.11	21.7		1

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Sample Description: **SL-010-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3507 SDG#: DE035-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	21.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,280		2.75	10.8		1
06958	Manganese	7439-96-5	259		0.0846	0.542		1
10145	Phosphorus	7723-14-0	389		0.607	10.8		1
01662	Potassium	7440-09-7	2,720		19.5	54.2		1
01667	Sodium	7440-23-5	182		40.4	108		1
07968	Strontium	7440-24-6	26.1		0.0672	0.542		1
06969	Tin	7440-31-5	2.58	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,220		0.412	1.08		1
10146	Zirconium	7440-67-7	2.48	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.107	J	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.61		0.0651	0.434		2
06126	Barium	7440-39-3	91.7		0.117	0.434		2
06127	Beryllium	7440-41-7	0.519		0.0174	0.108		2
06128	Cadmium	7440-43-9	0.166		0.0390	0.108		2
06131	Chromium	7440-47-3	19.7		0.130	0.434		2
06132	Cobalt	7440-48-4	5.67		0.0217	0.108		2
06133	Copper	7440-50-8	7.73		0.0716	0.434		2
06135	Lead	7439-92-1	6.22		0.0113	0.217		2
06138	Molybdenum	7439-98-7	1.42		0.0542	0.108		2
06139	Nickel	7440-02-0	11.1		0.108	0.434		2
06141	Selenium	7782-49-2	0.160	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0196	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.268		0.0325	0.108		2
06148	Vanadium	7440-62-2	35.1		0.0239	0.108		2
06149	Zinc	7440-66-6	65.3		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.88	U	0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1

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Sample Description: SL-010-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3507 SDG#: DE035-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.						
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	455	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.52	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-010-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	01:42	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	01:09	Sara E Johnson	22.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010	18:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010	18:48	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011	15:22	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011	03:16	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010	00:05	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010	14:45	Olivia I Santiago	1

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Sample Description: SL-010-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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D3507 SDG#: DE035-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 15:47	Elizabeth J Marin	24.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 18:48	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/17/2010 00:28	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 01:48	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 03:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 20:46	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 18:51	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 14:50	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 19:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/21/2010 08:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:15	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2

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Sample Description: SL-010-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162950
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
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D3507 SDG#: DE035-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 01:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201A	12/30/2010 01:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 02:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 13:21	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162951
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3508 SDG#: DE035-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	U	7.7	9.2		1
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2		1
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1
06192	Methylene Chloride	75-09-2	1.0	J	0.28	4.6		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1

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Sample Description: SL-008-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162951
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3508 SDG#: DE035-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1
06192	Toluene	108-88-3	0.12	J	0.09	4.6		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.81
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-008-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162951
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3508 SDG#: DE035-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.89	J	0.77	1.9		1

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Sample Description: SL-008-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162951
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

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14420 Albemarle Point Place
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D3508 SDG#: DE035-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.49	J	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,800		5.73	22.8		1
07914	Boron	7440-42-8	8.96		1.01	5.70		1
01650	Calcium	7440-70-2	9,770		6.98	22.8		1
01654	Iron	7439-89-6	34,500		10.7	45.6		2
01656	Lithium	7439-93-2	26.4		0.25	2.3		1
01657	Magnesium	7439-95-4	7,610		2.89	11.4		1
06958	Manganese	7439-96-5	350		0.0889	0.570		1
10145	Phosphorus	7723-14-0	253		0.638	11.4		1
01662	Potassium	7440-09-7	3,640		20.5	57.0		1
01667	Sodium	7440-23-5	350		42.5	114		1
07968	Strontium	7440-24-6	41.6		0.0706	0.570		1
06969	Tin	7440-31-5	2.70	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,710		0.416	1.10		1
10146	Zirconium	7440-67-7	3.77	J	0.957	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.237		0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.76		0.0684	0.456		2
06126	Barium	7440-39-3	158		0.123	0.456		2
06127	Beryllium	7440-41-7	0.870		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.247		0.0410	0.114		2
06131	Chromium	7440-47-3	29.9		0.137	0.456		2
06132	Cobalt	7440-48-4	7.40		0.0228	0.114		2
06133	Copper	7440-50-8	10.6		0.0752	0.456		2

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Sample Description: SL-008-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162951
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3508 SDG#: DE035-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	11.6	0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.586	0.0570	0.114		2
06139	Nickel	7440-02-0	14.9	0.114	0.456		2
06141	Selenium	7782-49-2	0.307 J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0421 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.484	0.0342	0.114		2
06148	Vanadium	7440-62-2	60.3	0.0251	0.114		2
06149	Zinc	7440-66-6	99.1	0.638	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.3	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	493	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.45	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-008-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-008-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162951
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3508 SDG#: DE035-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 02:05	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 01:28	Sara E Johnson	22.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 18:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010 18:52	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 03:41	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 00:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 03:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/22/2010 16:15	John P Hook	2
01656	Lithium	SW-846 6010B	1	103495708006	12/21/2010 08:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:19	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 18:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 18:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 18:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 18:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:16	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-008-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162951
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3508 SDG#: DE035-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 18:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 02:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 03:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 13:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162952
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3509 SDG#: DE035-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Sample Description: SL-008-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162952
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3509 SDG#: DE035-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		5.45	21.7		1

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Sample Description: **SL-008-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162952
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3509 SDG#: DE035-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	5.01	J	0.965	5.42		1
01650	Calcium	7440-70-2	1,510		6.65	21.7		1
01654	Iron	7439-89-6	18,000		5.11	21.7		1
01656	Lithium	7439-93-2	24.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,430		2.75	10.8		1
06958	Manganese	7439-96-5	165		0.0846	0.542		1
10145	Phosphorus	7723-14-0	181		0.607	10.8		1
01662	Potassium	7440-09-7	1,610		19.5	54.2		1
01667	Sodium	7440-23-5	89.6	J	40.4	108		1
07968	Strontium	7440-24-6	17.0		0.0672	0.542		1
06969	Tin	7440-31-5	2.74	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,210		0.412	1.08		1
10146	Zirconium	7440-67-7	0.911	U	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.38		0.0638	0.425		2
06126	Barium	7440-39-3	63.5		0.115	0.425		2
06127	Beryllium	7440-41-7	0.602		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0604	J	0.0383	0.106		2
06131	Chromium	7440-47-3	16.6		0.128	0.425		2
06132	Cobalt	7440-48-4	3.54		0.0213	0.106		2
06133	Copper	7440-50-8	5.42		0.0702	0.425		2
06135	Lead	7439-92-1	6.69		0.0111	0.213		2
06138	Molybdenum	7439-98-7	1.05		0.0532	0.106		2
06139	Nickel	7440-02-0	7.96		0.106	0.425		2
06141	Selenium	7782-49-2	0.215	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.168		0.0128	0.106		2
06145	Thallium	7440-28-0	0.326		0.0319	0.106		2
06148	Vanadium	7440-62-2	35.2		0.0234	0.106		2
06149	Zinc	7440-66-6	53.7		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0165	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162952
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3509 SDG#: DE035-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		mV	mV	mV	mV	
01821	Oxidation Reduction Potential		n.a.	573	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C		n.a.	6.85	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3		n.a.	8.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 04:06	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 01:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 03:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/21/2010 08:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:55	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162952
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3509 SDG#: DE035-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:23	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 02:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 03:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 13:47	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162953
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3510 SDG#: DE035-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-057-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162953
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3510 SDG#: DE035-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.59	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.0	U	1.0	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	170	U	170	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-057-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162953
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3510 SDG#: DE035-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.076	U	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.12	U	0.12	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.044	U	0.044	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.64	J	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-057-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162953
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3510 SDG#: DE035-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		5.66	22.5		1
07914	Boron	7440-42-8	12.5		1.00	5.62		1
01650	Calcium	7440-70-2	67,300		13.8	45.0		2
01654	Iron	7439-89-6	30,300		5.30	22.5		1
01656	Lithium	7439-93-2	27.3		0.25	2.2		1
01657	Magnesium	7439-95-4	7,210		2.86	11.2		1
06958	Manganese	7439-96-5	345		0.0877	0.562		1
10145	Phosphorus	7723-14-0	560		0.630	11.2		1
01662	Potassium	7440-09-7	4,790		20.2	56.2		1
01667	Sodium	7440-23-5	134		42.0	112		1
07968	Strontium	7440-24-6	123		0.0697	0.562		1
06969	Tin	7440-31-5	2.41	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,450		0.432	1.14		1
10146	Zirconium	7440-67-7	2.09	J	0.945	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.148	J	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.10		0.0675	0.450		2
06126	Barium	7440-39-3	136		0.121	0.450		2
06127	Beryllium	7440-41-7	0.698		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.409		0.0405	0.112		2
06131	Chromium	7440-47-3	31.7		0.135	0.450		2
06132	Cobalt	7440-48-4	10.1		0.0225	0.112		2
06133	Copper	7440-50-8	14.4		0.0742	0.450		2
06135	Lead	7439-92-1	12.1		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.610		0.0562	0.112		2
06139	Nickel	7440-02-0	18.8		0.112	0.450		2
06141	Selenium	7782-49-2	0.231	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0416	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.384		0.0337	0.112		2
06148	Vanadium	7440-62-2	63.3		0.0247	0.112		2
06149	Zinc	7440-66-6	85.4		0.630	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-057-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162953
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3510 SDG#: DE035-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	501	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 04:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 01:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	01/06/2011 19:35	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 19:50	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 05:22	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/21/2010 08:29	Tara L Snyder	2
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/21/2010 08:25	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162953
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3510 SDG#: DE035-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 19:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:27	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:25	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201A	12/30/2010 03:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 03:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 14:13	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201A	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-234-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162954
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3511 SDG#: DE035-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	21	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	21	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	360		1
04688	Fluoranthene	206-44-0	25	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162954
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3511 SDG#: DE035-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	33	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.57	J	0.36	1.8		1
10138	Benzo(a)pyrene	50-32-8	17		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	29		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	5.6		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	9.8		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.7		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.5	J	0.73	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	2.8		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	300	U	300	300		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162954
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3511 SDG#: DE035-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.3	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.1	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,400		5.40	21.5		1
07914	Boron	7440-42-8	6.86		0.955	5.36		1
01650	Calcium	7440-70-2	5,650		6.58	21.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-234-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162954
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3511 SDG#: DE035-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,100		5.05	21.5		1
01656	Lithium	7439-93-2	18.8		0.24	2.1		1
01657	Magnesium	7439-95-4	4,120		2.72	10.7		1
06958	Manganese	7439-96-5	274		0.0837	0.536		1
10145	Phosphorus	7723-14-0	694		0.601	10.7		1
01662	Potassium	7440-09-7	2,830		19.3	53.6		1
01667	Sodium	7440-23-5	106	J	40.0	107		1
07968	Strontium	7440-24-6	29.4		0.0665	0.536		1
06969	Tin	7440-31-5	2.16	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,340		0.416	1.09		1
10146	Zirconium	7440-67-7	1.78	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.03		0.0637	0.425		2
06126	Barium	7440-39-3	127		0.115	0.425		2
06127	Beryllium	7440-41-7	0.555		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.263		0.0382	0.106		2
06131	Chromium	7440-47-3	22.8		0.127	0.425		2
06132	Cobalt	7440-48-4	6.31		0.0212	0.106		2
06133	Copper	7440-50-8	10.5		0.0701	0.425		2
06135	Lead	7439-92-1	7.10		0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.04		0.0531	0.106		2
06139	Nickel	7440-02-0	14.5		0.106	0.425		2
06141	Selenium	7782-49-2	0.141	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0378	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.207		0.0319	0.106		2
06148	Vanadium	7440-62-2	43.0		0.0234	0.106		2
06149	Zinc	7440-66-6	77.9		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0082	J	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	485		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-234-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162954
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3511 SDG#: DE035-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 04:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 02:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	12/20/2010 22:29	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 20:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 05:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162954
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3511 SDG#: DE035-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:31	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 18:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010 04:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 04:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 14:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-235-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162955
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3512 SDG#: DE035-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-235-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162955
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3512 SDG#: DE035-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.6		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.2		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	4.7		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.99	J	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	1.8		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	1.0	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	2.2		0.72	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	2.1		0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	170	U	170	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-235-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162955
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3512 SDG#: DE035-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.093	U	0.093	0.37		1
01363	p,p-DDT	50-29-3	0.38	U	0.38	0.38		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.14	U	0.14	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.9		0.36	1.8		1
10225	PCB-1260	11096-82-5	1.4	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,700		5.29	21.0		1
07914	Boron	7440-42-8	6.16		0.935	5.25		1
01650	Calcium	7440-70-2	9,690		6.44	21.0		1
01654	Iron	7439-89-6	22,400		4.95	21.0		1
01656	Lithium	7439-93-2	24.8		0.23	2.1		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-235-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162955
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3512 SDG#: DE035-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,940		2.67	10.5		1
06958	Manganese	7439-96-5	289		0.0820	0.525		1
10145	Phosphorus	7723-14-0	503		0.588	10.5		1
01662	Potassium	7440-09-7	3,000		18.9	52.5		1
01667	Sodium	7440-23-5	86.4	J	39.2	105		1
07968	Strontium	7440-24-6	29.8		0.0651	0.525		1
06969	Tin	7440-31-5	2.31	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,390		0.411	1.08		1
10146	Zirconium	7440-67-7	1.09	J	0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.186	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.20		0.0637	0.424		2
06126	Barium	7440-39-3	109		0.115	0.424		2
06127	Beryllium	7440-41-7	0.543		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.193		0.0382	0.106		2
06131	Chromium	7440-47-3	21.6		0.127	0.424		2
06132	Cobalt	7440-48-4	6.24		0.0212	0.106		2
06133	Copper	7440-50-8	11.1		0.0700	0.424		2
06135	Lead	7439-92-1	8.34		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.578		0.0531	0.106		2
06139	Nickel	7440-02-0	13.9		0.106	0.424		2
06141	Selenium	7782-49-2	0.110	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0302	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.341		0.0318	0.106		2
06148	Vanadium	7440-62-2	44.5		0.0233	0.106		2
06149	Zinc	7440-66-6	91.5		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0186	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.2		0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	464		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: **SL-235-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162955
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3512 SDG#: DE035-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 05:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 02:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	12/29/2010 12:29	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 20:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 05:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/21/2010 08:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1

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Sample Description: **SL-235-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162955
LLI Group # 1225039
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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D3512 SDG#: DE035-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:35	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010 04:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 04:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 14:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-287-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162956
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3513 SDG#: DE035-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: **SL-287-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162956
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3513 SDG#: DE035-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.62	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.97	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.8		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.83	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	1.9		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	3.7		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	1.7	J	0.72	1.8		1
10138	Pyrene	129-00-0	2.9		0.72	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.6	J	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	300		81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1

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Sample Description: SL-287-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162956
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3513 SDG#: DE035-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	1.9	U	1.9	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.18	U	0.18	0.37		1
01363	p,p-DDT	50-29-3	0.32	U	0.32	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.13	U	0.13	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.11	U	0.11	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	6.2		0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,050		5.33	21.2		1
07914	Boron	7440-42-8	4.78	J	0.943	5.30		1
01650	Calcium	7440-70-2	4,300		6.50	21.2		1
01654	Iron	7439-89-6	13,900		4.99	21.2		1
01656	Lithium	7439-93-2	17.7		0.23	2.1		1
01657	Magnesium	7439-95-4	2,890		2.69	10.6		1
06958	Manganese	7439-96-5	215		0.0827	0.530		1

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Sample Description: SL-287-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162956
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3513 SDG#: DE035-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	362		0.594	10.6		1
01662	Potassium	7440-09-7	2,740		19.1	53.0		1
01667	Sodium	7440-23-5	66.7	J	39.5	106		1
07968	Strontium	7440-24-6	12.9		0.0657	0.530		1
06969	Tin	7440-31-5	1.99	J	1.06	10.6		1
06970	Titanium	7440-32-6	821		0.395	1.04		1
10146	Zirconium	7440-67-7	1.22	J	0.890	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0875	J	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.09		0.0630	0.420		2
06126	Barium	7440-39-3	67.7		0.113	0.420		2
06127	Beryllium	7440-41-7	0.335		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.206		0.0378	0.105		2
06131	Chromium	7440-47-3	11.4		0.126	0.420		2
06132	Cobalt	7440-48-4	3.57		0.0210	0.105		2
06133	Copper	7440-50-8	5.20		0.0693	0.420		2
06135	Lead	7439-92-1	5.57		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.397		0.0525	0.105		2
06139	Nickel	7440-02-0	7.07		0.105	0.420		2
06141	Selenium	7782-49-2	0.0751	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0148	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.217		0.0315	0.105		2
06148	Vanadium	7440-62-2	22.9		0.0231	0.105		2
06149	Zinc	7440-66-6	59.8		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	479		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: SL-287-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162956
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

D3513 SDG#: DE035-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.24	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 05:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 03:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510024A	01/07/2011 10:29	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 20:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 06:18	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510024A	12/20/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-287-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162956
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3513 SDG#: DE035-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:39	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010 06:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 05:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10358243201A	12/29/2010 14:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162957
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3514 SDG#: DE035-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.94
06192	Methylene Chloride	75-09-2	0.81	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.94

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Sample Description: SL-005-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162957
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3514 SDG#: DE035-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.94
06192	Toluene	108-88-3	0.11	J	0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	99.5		19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1

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Sample Description: **SL-005-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162957
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3514 SDG#: DE035-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162957
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3514 SDG#: DE035-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U	86	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	58	U	58	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	350	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	350	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	58	U	58	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	58	U	58	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	58	U	58	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	58	U	58	170	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,500	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	170	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,500	10000000	1
10132	RDX	121-82-4	72	U	72	170	10000000	1
10132	Tetryl	479-45-8	88	U	88	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	58	U	58	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	58	U	58	170	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162957
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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D3514 SDG#: DE035-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.86	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.60	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
	The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	190	J	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		5.63	22.4		1
07914	Boron	7440-42-8	11.3		0.995	5.59		1

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Sample Description: **SL-005-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162957
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3514 SDG#: DE035-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	54,500		6.86	22.4		1
01654	Iron	7439-89-6	30,200		10.5	44.7		2
01656	Lithium	7439-93-2	27.9		0.25	2.2		1
01657	Magnesium	7439-95-4	7,580		2.84	11.2		1
06958	Manganese	7439-96-5	354		0.0872	0.559		1
10145	Phosphorus	7723-14-0	465		0.626	11.2		1
01662	Potassium	7440-09-7	4,400		20.1	55.9		1
01667	Sodium	7440-23-5	230		41.7	112		1
07968	Strontium	7440-24-6	110		0.0693	0.559		1
06969	Tin	7440-31-5	2.19	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,430		0.438	1.15		1
10146	Zirconium	7440-67-7	2.74	J	0.940	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.267		0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.78		0.0665	0.443		2
06126	Barium	7440-39-3	175		0.120	0.443		2
06127	Beryllium	7440-41-7	0.799		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.375		0.0399	0.111		2
06131	Chromium	7440-47-3	37.4		0.133	0.443		2
06132	Cobalt	7440-48-4	10.8		0.0222	0.111		2
06133	Copper	7440-50-8	16.9		0.0731	0.443		2
06135	Lead	7439-92-1	12.5		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.550		0.0554	0.111		2
06139	Nickel	7440-02-0	21.0		0.111	0.443		2
06141	Selenium	7782-49-2	0.284	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0434	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.468		0.0332	0.111		2
06148	Vanadium	7440-62-2	77.0		0.0244	0.111		2
06149	Zinc	7440-66-6	95.8		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.7		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162957
LLI Group # 1225039
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

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D3514 SDG#: DE035-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.							
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	496		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.22		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-005-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	02:27	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	01:48	Sara E Johnson	22.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010	18:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010	18:56	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011	11:22	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011	06:12	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010	04:04	Gregory J Drahovsky	1

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D3514 SDG#: DE035-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 16:24	Elizabeth J Marin	19.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 18:55	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/17/2010 01:11	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 02:07	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 06:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 12:00	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 19:06	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 15:06	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 05:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/22/2010 16:26	John P Hook	2
01656	Lithium	SW-846 6010B	1	103495708006	12/21/2010 08:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2

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SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6162957
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D3514 SDG#: DE035-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010 04:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201B	12/30/2010 04:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201A	12/29/2010 05:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 15:04	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203A	12/28/2010 14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	1.4	J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.89
06192	Toluene	108-88-3	0.12	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		19.69
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	72.8	J	36.7	73.3		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: **SL-005-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.7	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	1.8	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	1.7	J	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	84	U	84	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1

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Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
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D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	3,300		660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	1.4	J	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.92	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.58	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	15		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	51		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	190	J	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.37	21.4		1
07914	Boron	7440-42-8	6.30		0.951	5.34		1
01650	Calcium	7440-70-2	3,520		6.55	21.4		1
01654	Iron	7439-89-6	19,000		5.03	21.4		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-005-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	19.2		0.23	2.1		1
01657	Magnesium	7439-95-4	3,780		2.71	10.7		1
06958	Manganese	7439-96-5	229		0.0833	0.534		1
10145	Phosphorus	7723-14-0	395		0.598	10.7		1
01662	Potassium	7440-09-7	2,550		19.2	53.4		1
01667	Sodium	7440-23-5	256		39.8	107		1
07968	Strontium	7440-24-6	23.7		0.0662	0.534		1
06969	Tin	7440-31-5	1.92	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,100		0.402	1.06		1
10146	Zirconium	7440-67-7	1.06	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.78		0.0647	0.431		2
06126	Barium	7440-39-3	127		0.116	0.431		2
06127	Beryllium	7440-41-7	0.576		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.324		0.0388	0.108		2
06131	Chromium	7440-47-3	22.4		0.129	0.431		2
06132	Cobalt	7440-48-4	6.99		0.0216	0.108		2
06133	Copper	7440-50-8	11.6		0.0712	0.431		2
06135	Lead	7439-92-1	10.1		0.0112	0.216		2
06138	Molybdenum	7439-98-7	1.20		0.0539	0.108		2
06139	Nickel	7440-02-0	12.6		0.108	0.431		2
06141	Selenium	7782-49-2	0.160	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0316	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.366		0.0324	0.108		2
06148	Vanadium	7440-62-2	46.4		0.0237	0.108		2
06149	Zinc	7440-66-6	129		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.7		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.88	U	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.						
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	490	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.68	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-005-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	02:50	Laura M Krieger	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	02:08	Sara E Johnson	19.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010	19:00	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011	15:39	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011	06:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010	04:38	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010	14:45	Olivia I Santiago	1

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Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3515 SDG#: DE035-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 17:00	Elizabeth J Marin	27.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:00	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/17/2010 01:53	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 02:17	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 06:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 21:36	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 19:21	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 15:54	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 15:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2

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Sample Description: **SL-005-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3515 SDG#: DE035-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010 04:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201B	12/30/2010 04:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201B	12/29/2010 06:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 15:17	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203B	12/28/2010 14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.04
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.04
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.04
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.04
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.04
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.04
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.04
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.04
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.04
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.04
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.5		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.04
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.04
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.04
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.04
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.04
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.04
06192	Freon 133a	75-88-7	0.56	U	0.56	5.5		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.04
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.04
06192	Methylene Chloride	75-09-2	1.1	J	0.27	4.4		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.04

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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		1.04
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.04
06192	Toluene	108-88-3	0.15	J	0.09	4.4		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.04
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.04
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	96.5		17.8	35.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1

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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	J	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.51	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.02
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80	U	80	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53	U	53	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	320	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	320	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	53	U	53	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	53	U	53	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	53	U	53	160	10000000	1
10132	HMX	2691-41-0	130	U	130	400	10000000	1
10132	Nitrobenzene	98-95-3	53	U	53	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,200	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,200	10000000	1
10132	RDX	121-82-4	67	U	67	160	10000000	1
10132	Tetryl	479-45-8	82	U	82	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	53	U	53	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	53	U	53	160	10000000	1

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Sample Description: **SL-009-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.91	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.2		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	180	J	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.27	21.0		1
07914	Boron	7440-42-8	6.42		0.933	5.24		1
01650	Calcium	7440-70-2	3,550		6.43	21.0		1
01654	Iron	7439-89-6	20,200		4.94	21.0		1

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Sample Description: **SL-009-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	18.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,170		2.66	10.5		1
06958	Manganese	7439-96-5	273		0.0818	0.524		1
10145	Phosphorus	7723-14-0	437		0.587	10.5		1
01662	Potassium	7440-09-7	2,630		18.9	52.4		1
01667	Sodium	7440-23-5	189		39.1	105		1
07968	Strontium	7440-24-6	20.4		0.0650	0.524		1
06969	Tin	7440-31-5	2.06	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,290		0.398	1.05		1
10146	Zirconium	7440-67-7	1.67	J	0.881	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.23		0.0635	0.424		2
06126	Barium	7440-39-3	120		0.114	0.424		2
06127	Beryllium	7440-41-7	0.618		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.137		0.0381	0.106		2
06131	Chromium	7440-47-3	26.0		0.127	0.424		2
06132	Cobalt	7440-48-4	8.24		0.0212	0.106		2
06133	Copper	7440-50-8	11.1		0.0699	0.424		2
06135	Lead	7439-92-1	7.98		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.548		0.0529	0.106		2
06139	Nickel	7440-02-0	12.7		0.106	0.424		2
06141	Selenium	7782-49-2	0.220	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0214	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.354		0.0318	0.106		2
06148	Vanadium	7440-62-2	60.7		0.0233	0.106		2
06149	Zinc	7440-66-6	85.9		0.593	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.7		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.						
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	417	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.20	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-009-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	03:13	Laura M Krieger	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	02:27	Sara E Johnson	24.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010	19:05	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011	11:55	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011	07:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010	05:12	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010	14:45	Olivia I Santiago	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 17:36	Elizabeth J Marin	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:04	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/17/2010 02:35	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 02:26	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 07:13	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 15:46	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 19:35	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 15:38	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 05:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 09:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2

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Sample Description: **SL-009-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3516 SDG#: DE035-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 06:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010 05:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201B	12/30/2010 05:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201B	12/29/2010 07:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 15:30	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:43	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203B	12/28/2010 14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182104A	12/14/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039404A	12/14/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	J	7.5	8.9		1
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.5		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		1
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5		1
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	8.9		1
06192	Methylene Chloride	75-09-2	1.8	J	0.27	4.5		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1

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Sample Description: **SL-009-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		1
06192	Toluene	108-88-3	0.13	J	0.09	4.5		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		1
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.72
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178		18.6	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.2		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	2.7		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	3.7		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	J	0.75	1.9		1
10138	Pyrene	129-00-0	3.9		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	U	0.3	1.3		28.74
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U	84	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	70	U	70	170	10000000	1
10132	Tetryl	479-45-8	86	U	86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.93	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.66	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.2	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	12		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	190	J	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.46	21.7		1
07914	Boron	7440-42-8	7.11		0.967	5.43		1
01650	Calcium	7440-70-2	3,850		6.66	21.7		1
01654	Iron	7439-89-6	20,600		5.12	21.7		1

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Sample Description: **SL-009-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	20.1		0.24	2.2		1
01657	Magnesium	7439-95-4	3,760		2.76	10.9		1
06958	Manganese	7439-96-5	282		0.0847	0.543		1
10145	Phosphorus	7723-14-0	324		0.608	10.9		1
01662	Potassium	7440-09-7	2,510		19.5	54.3		1
01667	Sodium	7440-23-5	206		40.5	109		1
07968	Strontium	7440-24-6	21.4		0.0673	0.543		1
06969	Tin	7440-31-5	2.46	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230		0.417	1.10		1
10146	Zirconium	7440-67-7	1.33	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.62		0.0652	0.434		2
06126	Barium	7440-39-3	90.7		0.117	0.434		2
06127	Beryllium	7440-41-7	0.522		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.167		0.0391	0.109		2
06131	Chromium	7440-47-3	15.6		0.130	0.434		2
06132	Cobalt	7440-48-4	5.86		0.0217	0.109		2
06133	Copper	7440-50-8	7.10		0.0717	0.434		2
06135	Lead	7439-92-1	5.85		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.628		0.0543	0.109		2
06139	Nickel	7440-02-0	9.46		0.109	0.434		2
06141	Selenium	7782-49-2	0.0957	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0204	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.286		0.0326	0.109		2
06148	Vanadium	7440-62-2	33.6		0.0239	0.109		2
06149	Zinc	7440-66-6	61.9		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.3		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.89	U	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
	The sample was analyzed outside of the 14 day holding time for Total Cyanide.						
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	440	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.51	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-009-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	03:35	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	02:47	Sara E Johnson	23.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010	19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010	19:09	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011	12:13	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011	07:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010	05:49	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010	14:45	Olivia I Santiago	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3517 SDG#: DE035-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 18:13	Elizabeth J Marin	28.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:08	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/17/2010 04:42	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 02:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 07:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 18:41	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 19:50	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 16:10	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 16:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 09:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 09:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3517 SDG#: DE035-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010 12:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010 12:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010 07:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010 20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010 12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010 20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010 03:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201B	12/30/2010 03:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201B	12/29/2010 07:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010 15:43	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:44	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010 11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203B	12/28/2010 14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182104A	12/14/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039404A	12/14/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010 07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103482AA	Sample number(s): 6162941-6162942,6162949-6162951,6162957-6162960									
Acetone	6.7	U	6.7	8.0	ug/kg	183		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	100		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	91		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	97		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	95		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	72		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	133		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	97		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	92		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	77		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.22	J	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	72		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	101		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	54		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	99		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	100		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	92		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	87		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	98		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	78		61-134		
Methylene Chloride	1.3	J	0.24	4.0	ug/kg	99		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	97		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	96		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	76		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E103493AA	Sample number(s): 6162941-6162942,6162949-6162951,6162957-6162960									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	112	70-130	4	30
Batch number: 10349SLH026	Sample number(s): 6162941-6162945,6162947-6162960									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	99		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	108		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.1	J	6.0	18	ug/kg	112		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	92		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	111		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		70-130		
Bis(2-Ethylhexyl)phthalate	6.7	J	6.0	18	ug/kg	123		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	92		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	96		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	97		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	106		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	101		56-121		
Batch number: 10350SLB026	Sample number(s): 6162941-6162945,6162947-6162960									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	61		10-107		
Anthracene	17	U	17.	170	ug/kg	96		76-112		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	94		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	87		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	80		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	82		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	96		67-125		
Benzoic acid	170 U		170.	500	ug/kg	98		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	41		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	97		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	83		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	49		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	103		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	95		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	84		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	89		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	103		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	96		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	96		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	69		35-106		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Pyrene	17	U	17.	170	ug/kg	98		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 10354SLC026	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	80		70-130		
Batch number: 10340B34B	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72	78	67-119	8	30
Batch number: 103480012A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	95	96	54-134	1	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	95	96	54-134	1	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	110		80-120		
HMX	130 U		130.	380	ug/kg	93		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	105		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	108		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	107		80-120		
PETN	1,000 U		1,000.	3,000	ug/kg	105		80-120		
RDX	63	U	63.	150	ug/kg	105		75-131		
Tetryl	77	U	77.	150	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	109		80-120		
Batch number: 103480007A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	99		80-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103510024A	Sample number(s): 6162943-6162945,6162947-6162948,6162953-6162956									
2,4-D	1.2	U	1.2	3.6	ug/kg	121		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	82		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	101		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	96		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	109		60-141		
MCPA	76	U	76.	250	ug/kg	94		34-113		
MCPP (Mecoprop)	220 U		220.	250	ug/kg	117		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	108		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	98		48-138		
Batch number: 103500026A	Sample number(s): 6162941-6162945,6162947-6162960									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	58*	48*	75-125	19	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	113		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103510029A	Sample number(s): 6162943-6162945,6162947-6162948,6162953-6162956									
Aldrin	0.066	U	0.066	0.17	ug/kg	87		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	103		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	106		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	104		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	105		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	101		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	97		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	100		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	111		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	118		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	95		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	113		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	121		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	131*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103570006A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	75		66-113		
Batch number: 103480003A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethanol	100 U		100.	500	ug/kg	86		75-112		
Isopropanol	100 U		100.	500	ug/kg	88		75-125		
Methanol	100 U		100.	500	ug/kg	87		75-134		
Batch number: 103480019A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									
Diethylene glycol	5.0	U	5.0	13	mg/kg	92		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	85		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	93		75-125		
Batch number: 103550026A	Sample number(s): 6162942,6162949-6162950,6162957-6162960									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
Batch number: 103570035A	Sample number(s): 6162941									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	106	101	75-125	5	20
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	110	105	75-125	4	20
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	105	99	75-125	5	20
Batch number: 103491026005A	Sample number(s): 6162941-6162960									
Antimony	0.0600	U	0.0600	0.200	mg/kg	113		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	89		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	89		82-118		
Cadmium	0.0360	U	0.0360	0.100	mg/kg	91		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	91		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	93		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	93		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	91		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	98		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	94		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	94		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	91		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	88		78-122		
Batch number: 103491026005B	Sample number(s): 6162941-6162960									
Selenium	0.0400	U	0.0400	0.400	mg/kg	90		79-122		
Batch number: 103491026005C	Sample number(s): 6162941-6162960									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	98		78-122		
Batch number: 103491026005D	Sample number(s): 6162941-6162960									
Barium	0.108	U	0.108	0.400	mg/kg	94		79-121		
Batch number: 103495708006	Sample number(s): 6162941-6162960									
Aluminum	5.03	U	5.03	20.0	mg/kg	76		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	86		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	95		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	106		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	91		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.38	J	0.560	10.0	mg/kg	102		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	92		78-110		
Sodium	37.3	U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tin	1.13	J	1.00	10.0	mg/kg	107		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 103495711005	Sample number(s): 6162941-6162960									
Mercury	0.0028	U	0.0028	0.0985	mg/kg	103		88-123		
Batch number: 103555708001	Sample number(s): 6162941-6162960									
Titanium	0.373	U	0.373	0.980	mg/kg	107		80-120		
Batch number: 10357357201B	Sample number(s): 6162941-6162944,6162946-6162947									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10358243201A	Sample number(s): 6162941-6162944,6162946-6162960									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 10361102201A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 10362362201A	Sample number(s): 6162941-6162944,6162946-6162957									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10362362201B	Sample number(s): 6162954-6162960									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10348039403A	Sample number(s): 6162941-6162942									
22a pH by 9045C						100		95-105		
Batch number: 10348039403B	Sample number(s): 6162943,6162946-6162958									
22a pH by 9045C						100		95-105		
Batch number: 10348039404A	Sample number(s): 6162959-6162960									
22a pH by 9045C						101		95-105		
Batch number: 10348182103A	Sample number(s): 6162941-6162942									
Oxidation Reduction Potential						99		98-102		
Batch number: 10348182103B	Sample number(s): 6162943,6162946-6162958									
Oxidation Reduction Potential						99		98-102		
Batch number: 10348182104A	Sample number(s): 6162959-6162960									
Oxidation Reduction Potential						99		98-102		
Batch number: 10349162402A	Sample number(s): 6162943-6162948,6162951-6162956									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
Batch number: 10357162401B	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960									
28a Moisture Content by 160.3						99		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103482AA	Sample number(s): 6162941-6162942,6162949-6162951,6162957-6162960 UNSPK: P163871								
Acetone	169	181	15-210	3	30				
Benzene	99	95	55-143	8	30				
Bromobenzene	87	77	43-139	16	30				
Bromochloromethane	97	91	60-137	10	30				
Bromodichloromethane	96	90	53-136	10	30				
Bromoform	85	81	38-124	9	30				
Bromomethane	72	64	42-168	16	30				
2-Butanone	114	120	37-163	1	30				
n-Butylbenzene	82	67	30-146	24	30				
sec-Butylbenzene	87	73	33-157	21	30				
tert-Butylbenzene	88	74	41-152	20	30				
Carbon Tetrachloride	102	96	45-153	10	30				
Chlorobenzene	92	83	49-135	15	30				
Chloroethane	78	68	39-152	18	30				
2-Chloroethyl Vinyl Ether	84	89	32-139	2	30				
Chloroform	103	96	61-142	10	30				
Chloromethane	77	72	51-163	10	30				
2-Chlorotoluene	89	77	42-146	18	30				
4-Chlorotoluene	88	75	39-145	19	30				
Chlorotrifluoroethene	104	104	70-130	2	30				
1,2-Dibromo-3-chloropropane	79	77	30-139	7	30				
Dibromochloromethane	93	88	51-128	10	30				
1,2-Dibromoethane	88	86	54-129	6	30				
Dibromomethane	94	90	57-130	8	30				
1,2-Dichlorobenzene	83	71	36-133	19	30				
1,3-Dichlorobenzene	81	69	34-134	19	30				
1,4-Dichlorobenzene	82	70	35-136	19	30				
Dichlorodifluoromethane	53	50	26-151	11	30				
1,1-Dichloroethane	101	96	63-142	9	30				
1,2-Dichloroethane	98	94	68-131	8	30				
1,1-Dichloroethene	101	97	61-149	7	30				
cis-1,2-Dichloroethene	98	93	60-136	9	30				
trans-1,2-Dichloroethene	99	92	59-142	11	30				
1,2-Dichloropropane	98	93	62-135	9	30				
1,3-Dichloropropane	94	90	58-129	8	30				
2,2-Dichloropropane	96	92	53-147	8	30				
1,1-Dichloropropene	97	93	54-145	8	30				
cis-1,3-Dichloropropene	85	83	51-131	6	30				
trans-1,3-Dichloropropene	87	83	49-129	8	30				
Ethylbenzene	92	83	44-141	15	30				
Freon 113	102	95	56-156	11	30				
Freon 133a	90	94	70-130	6	30				
Hexachlorobutadiene	65	51	10-155	28	30				
2-Hexanone	76	80	32-160	0	30				
Isopropylbenzene	89	78	38-144	17	30				
p-Isopropyltoluene	85	71	29-152	21	30				
Methyl Tertiary Butyl Ether	88	87	55-129	4	30				
4-Methyl-2-pentanone	66	70	46-139	3	30				
Methylene Chloride	99	87	61-141	16	30				
n-Propylbenzene	92	80	39-157	17	30				
Styrene	89	79	35-134	16	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,1,2-Tetrachloroethane	97	87	52-130	15	30				
1,1,2,2-Tetrachloroethane	90	87	40-152	7	30				
Tetrachloroethene	94	84	42-149	14	30				
Toluene	97	90	50-146	11	30				
1,2,3-Trichlorobenzene	60	50	10-140	21	30				
1,2,4-Trichlorobenzene	61	50	10-136	24	30				
1,1,1-Trichloroethane	101	95	64-142	9	30				
1,1,2-Trichloroethane	93	89	54-139	9	30				
Trichloroethene	95	90	53-144	9	30				
Trichlorofluoromethane	88	81	47-163	12	30				
1,2,3-Trichloropropane	90	88	45-154	5	30				
1,2,4-Trimethylbenzene	89	76	37-149	19	30				
1,3,5-Trimethylbenzene	89	77	38-150	18	30				
Vinyl Chloride	78	74	50-154	9	30				
m+p-Xylene	93	82	44-137	16	30				
o-Xylene	88	78	42-137	16	30				
Batch number: E103493AA	Sample number(s): 6162941-6162942,6162949-6162951,6162957-6162960 UNSPK: P163871								
1,4-Dioxane	104	95	70-130	9	30				
Batch number: 10349SLH026	Sample number(s): 6162941-6162945,6162947-6162960 UNSPK: 6162943								
Acenaphthene	95	94	63-105	2	30				
Acenaphthylene	98	99	55-126	0	30				
Anthracene	100	98	46-136	2	30				
Benzo(a)anthracene	99	99	39-144	1	30				
Benzo(a)pyrene	94	94	34-156	1	30				
Benzo(b)fluoranthene	103	102	43-155	1	30				
Benzo(g,h,i)perylene	69	70	33-141	1	30				
Benzo(k)fluoranthene	82	80	42-144	2	30				
Butylbenzylphthalate	113	113	73-140	0	30				
Di-n-butylphthalate	95	95	78-160	0	30				
Chrysene	92	91	29-156	0	30				
Dibenz(a,h)anthracene	83	82	41-130	1	30				
Diethylphthalate	112	114	87-131	2	30				
Dimethylphthalate	106	106	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	226*	73	39-167	76*	30				
Fluoranthene	105	100	26-166	4	30				
Fluorene	101	102	45-121	1	30				
Indeno(1,2,3-cd)pyrene	80	78	21-143	2	30				
1-Methylnaphthalene	97	96	72-123	1	30				
2-Methylnaphthalene	88	87	28-121	1	30				
Naphthalene	92	92	61-102	1	30				
N-Nitrosodimethylamine	102	101	48-113	1	30				
Di-n-octylphthalate	106	105	40-192	1	30				
Phenanthrene	92	91	12-165	1	30				
Pyrene	88	89	15-153	2	30				
Batch number: 10350SLB026	Sample number(s): 6162941-6162945,6162947-6162960 UNSPK: 6162943								
Acenaphthene	96	93	75-115	3	30				
Acenaphthylene	100	96	49-126	3	30				
Aniline	55	75	14-114	31*	30				
Anthracene	95	95	75-115	0	30				
Benzidine	39	47	35-141	19	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)anthracene	95	93	65-122	2	30				
Benzo(a)pyrene	87	87	57-126	0	30				
Benzo(b)fluoranthene	86	88	59-125	3	30				
Benzo(g,h,i)perylene	85	83	59-127	2	30				
Benzo(k)fluoranthene	91	87	56-132	4	30				
Benzoic acid	49	23	10-173	71*	30				
Benzyl alcohol	101	100	55-123	1	30				
4-Bromophenyl-phenylether	88	87	67-129	1	30				
Butylbenzylphthalate	102	101	73-134	1	30				
Di-n-butylphthalate	97	95	67-123	1	30				
Carbazole	98	95	64-120	3	30				
4-Chloro-3-methylphenol	99	97	53-130	3	30				
4-Chloroaniline	55	68	23-95	22	30				
bis(2-Chloroethoxy)methane	94	92	54-117	3	30				
bis(2-Chloroethyl)ether	97	93	60-116	5	30				
bis(2-Chloroisopropyl)ether	97	95	55-142	2	30				
2-Chloronaphthalene	93	92	50-141	1	30				
2-Chlorophenol	100	100	73-121	1	30				
4-Chlorophenyl-phenylether	94	93	64-119	1	30				
Chrysene	98	96	62-128	2	30				
Dibenz(a,h)anthracene	84	83	65-125	1	30				
Dibenzofuran	97	96	71-112	1	30				
1,2-Dichlorobenzene	90	88	66-108	3	30				
1,3-Dichlorobenzene	87	88	63-109	1	30				
1,4-Dichlorobenzene	88	89	53-113	1	30				
3,3'-Dichlorobenzidine	42	63	25-123	40*	30				
2,4-Dichlorophenol	100	101	78-117	1	30				
Diethylphthalate	100	95	66-118	5	30				
2,4-Dimethylphenol	102	102	56-130	0	30				
3,5-Dimethylphenol	101	98	70-130	3	30				
Dimethylphthalate	98	94	64-118	5	30				
4,6-Dinitro-2-methylphenol	74	77	10-148	5	30				
2,4-Dinitrophenol	56	57	20-143	2	30				
2,4-Dinitrotoluene	99	94	57-114	5	30				
2,6-Dinitrotoluene	97	95	69-123	2	30				
1,2-Diphenylhydrazine	100	99	71-129	1	30				
bis(2-Ethylhexyl)phthalate	99	98	63-122	2	30				
Fluoranthene	97	96	59-122	2	30				
Fluorene	98	96	60-125	2	30				
Hexachlorobenzene	91	91	61-111	0	30				
Hexachlorobutadiene	82	84	62-120	2	30				
Hexachlorocyclopentadiene	70	64	10-153	9	30				
Hexachloroethane	85	86	57-109	1	30				
Indeno(1,2,3-cd)pyrene	85	83	61-126	3	30				
Isophorone	95	95	51-118	1	30				
1-Methylnaphthalene	96	97	73-112	1	30				
2-Methylnaphthalene	88	89	76-114	0	30				
2-Methylphenol	103	101	47-142	2	30				
4-Methylphenol	98	99	55-126	1	30				
Naphthalene	91	92	72-116	1	30				
2-Nitroaniline	96	93	67-125	3	30				
3-Nitroaniline	91	91	59-122	0	30				
4-Nitroaniline	75	76	52-112	1	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	92	90	51-114	3	30				
2-Nitrophenol	89	89	74-115	0	30				
4-Nitrophenol	91	87	39-133	5	30				
N-Nitroso-di-n-propylamine	97	95	60-116	2	30				
N-Nitrosodimethylamine	95	96	47-116	1	30				
N-Nitrosodiphenylamine	95	94	86-145	1	30				
Di-n-octylphthalate	96	97	56-126	1	30				
Pentachlorophenol	65	65	17-149	1	30				
Phenanthrene	95	94	65-125	1	30				
Phenol	97	94	58-126	4	30				
Pyrene	101	98	51-151	3	30				
1,2,4-Trichlorobenzene	88	89	72-115	1	30				
2,4,5-Trichlorophenol	93	90	34-139	4	30				
2,4,6-Trichlorophenol	94	91	49-140	3	30				
Batch number: 10354SLC026	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P163871								
N-Nitrosodimethylamine	76	66*	70-130	13	30				
Batch number: 10340B34B	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P156146								
9a TPH by EPA 8015B Gas C5-C12	82	72	39-118	19	30				
Batch number: 103480012A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P162818								
4-Amino-2,6-Dinitrotoluene	104	96	80-127	8	50				
2-Amino-4,6-Dinitrotoluene	103	95	80-137	7	50				
1,3-Dinitrobenzene	103	97	38-166	6	50				
2,4-Dinitrotoluene	100	94	80-131	6	50				
2,6-Dinitrotoluene	105	99	80-127	6	50				
HMX	92	81	63-128	12	50				
Nitrobenzene	103	98	80-125	5	50				
Nitroglycerin	92	86	80-120	7	50				
2-Nitrotoluene	106	100	80-122	6	50				
3-Nitrotoluene	106	100	72-119	6	50				
4-Nitrotoluene	105	99	80-125	6	50				
PETN	103	94	80-121	9	50				
RDX	95	84	75-129	13	50				
Tetryl	106	90	55-174	16	50				
1,3,5-Trinitrobenzene	110	102	82-126	8	50				
2,4,6-Trinitrotoluene	103	96	82-130	7	50				
Batch number: 103480007A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P162812								
17a Formaldehyde by 8315A	29*	26*	80-120	3	50				
Batch number: 103510024A	Sample number(s): 6162943-6162945,6162947-6162948,6162953-6162956 UNSPK: 6162943								
2,4-D	99	97	28-161	2	35				
Dalapon	80	85	12-86	7	50				
2,4-DB	115	115	20-170	0	50				
Dicamba	110	113	33-120	3	50				
Dinoseb	10	12	1-44	12	35				
2,4-DP (Dichlorprop)	102	102	55-141	0	50				
MCPA	111	129	31-184	15	50				
MCPP (Mecoprop)	126	125	16-174	1	50				
2,4,5-T	87	94	25-132	8	35				
2,4,5-TP	81	83	10-183	3	35				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103500026A	Sample number(s): 6162941-6162945,6162947-6162960 UNSPK: 6162943								
PCB-1016	99	99	29-146	0	50				
PCB-1260	84	89	39-149	5	50				
Batch number: 103510029A	Sample number(s): 6162943-6162945,6162947-6162948,6162953-6162956 UNSPK: 6162943								
Aldrin	77	87	16-126	12	50				
Alpha BHC	100	109	10-129	9	50				
Beta BHC	88	97	14-147	10	50				
Gamma BHC - Lindane	100	109	10-140	9	50				
p,p-DDD	80	88	16-163	10	50				
p,p-DDE	90	102	18-161	12	50				
p,p-DDT	103	116	10-176	12	50				
Delta BHC	94	106	23-140	13	50				
Dieldrin	76	84	19-154	10	50				
Endosulfan I	76	82	16-137	8	50				
Endosulfan II	70	76	28-154	9	50				
Endosulfan Sulfate	86	94	21-160	9	50				
Endrin	88	99	11-149	11	50				
Endrin Aldehyde	77	87	10-148	12	35				
Endrin Ketone	82	85	22-165	4	50				
Heptachlor	118	136*	13-126	14	50				
Heptachlor Epoxide	81	90	13-157	11	50				
Methoxychlor	102	114	32-147	11	50				
Batch number: 103570006A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: 6162942								
EFH (C12-C14)	88	86	49-123	3	20				
EFH (C15-C20)	172*	137*	49-123	23*	20				
EFH (C21-C30)	799*	504*	49-123	29*	20				
EFH (C30 - C40)	1486 (2)	1361 (2)	49-123	6	20				
EFH (C8-C11)	61	62	49-123	2	20				
Batch number: 103480003A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P162876								
Ethanol	89	102	24-143	13	20				
Isopropanol	88	91	75-125	4	20				
Methanol	90	115	45-136	25*	20				
Batch number: 103480019A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P162876								
Diethylene glycol	18*	27*	59-109	40*	20				
Ethylene glycol	57*	62*	63-107	9	20				
Propylene glycol	50*	52*	63-107	3	20				
Batch number: 103550026A	Sample number(s): 6162942,6162949-6162950,6162957-6162960 UNSPK: P163871								
m-Terphenyl	90	88	75-125	3	20				
o-Terphenyl	93	91	75-125	2	20				
p-Terphenyl	95	93	75-125	2	20				
Batch number: 103491026005A	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Antimony	85	71*	75-125	13	20	0.350	0.105 J	108* (1)	20
Arsenic	183*	140*	75-125	14	20	3.09	2.68	14	20
Beryllium	128*	117	75-125	8	20	0.154	0.113	31* (1)	20
Cadmium	149*	136*	75-125	9	20	0.0944 J	0.0624 J	41* (1)	20

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Chromium	157*	117	75-125	16	20	12.7	9.62	27*	20
Cobalt	135*	119	75-125	13	20	2.24	1.77	24*	20
Copper	137*	116	75-125	14	20	3.15	2.52	22*	20
Lead	162*	137*	75-125	13	20	1.70	1.42	18	20
Nickel	144*	119	75-125	13	20	7.12	5.59	24*	20
Silver	149*	135*	75-125	11	20	0.0118 U	0.0120 U	0 (1)	20
Thallium	149*	129*	75-125	14	20	0.0578 J	0.0313 J	59* (1)	20
Vanadium	168*	140*	75-125	10	20	14.7	11.4	25*	20
Zinc	178*	143*	75-125	13	20	12.4	10.3	19 (1)	20
Batch number: 103491026005B	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Selenium	135*	110	75-125	20	20	0.185 J	0.180 J	2 (1)	20
Batch number: 103491026005C	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Molybdenum	152*	136*	75-125	11	20	0.805	0.575	33*	20
Batch number: 103491026005D	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Barium	185*	151*	75-125	9	20	20.9	17.6	17	20
Batch number: 103495708006	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Aluminum	731 (2)	616 (2)	75-125	5	20	3,590	2,870	22*	20
Boron	94	96	84-115	2	20	2.89 J	2.50 J	15 (1)	20
Calcium	803 (2)	1941 (2)	75-125	36*	20	6,980	7,400	6	20
Iron	107 (2)	-11 (2)	75-125	2	20	5,100	4,660	9	20
Lithium	103	104	82-114	1	20	3.0	2.4	23* (1)	20
Magnesium	146 (2)	123 (2)	75-125	4	20	988	883	11	20
Manganese	163*	88	75-125	23*	20	99.3	160	47*	20
Phosphorus	182*	140*	75-125	9	20	307	281	9	20
Potassium	121	118	75-125	1	20	570	524	8	20
Sodium	105	112	75-125	6	20	49.2 J	42.7 J	14 (1)	20
Strontium	109	117*	75-115	6	20	14.2	13.2	7	20
Tin	100	100	80-110	0	20	1.77 J	1.41 J	23* (1)	20
Zirconium	103	104	75-125	1	20	2.41 J	2.29 J	5 (1)	20
Batch number: 103495711005	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Mercury	90	93	65-135	4	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 103555708001	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Titanium	209*	171*	75-125	7	20	296	324	9	20
Batch number: 10357357201B	Sample number(s): 6162941-6162944,6162946-6162947 UNSPK: 6162943 BKG: 6162943								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10358243201A	Sample number(s): 6162941-6162944,6162946-6162960 UNSPK: 6162943 BKG: 6162943								
3a Cr VI by EPA 7199	90		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 10361102201A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P163871 BKG: P163871								
21a Cyanide by 9012B	109		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 10362362201A	Sample number(s): 6162941-6162944,6162946-6162957 UNSPK: 6162943, 6162948 BKG: 6162943, 6162948								

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
11a Anions by 300.0 - Fluoride	89		80-120			0.80	U	1.2		200* (1)	20
11a Anions by 300.0 - Nitrate	79*		80-120			1.2	J	0.80	U	200* (1)	20
7a Perchlorate EPA 314.0	109		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 10362362201B	Sample number(s): 6162954-6162960 UNSPK: 6162958, 6162960 BKG: 6162958, 6162960										
11a Anions by 300.0 - Fluoride	72*		80-120			4.7		5.8		21* (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			0.80	U	0.85	J	200* (1)	20
7a Perchlorate EPA 314.0	110		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 10348039403A	Sample number(s): 6162941-6162942 BKG: P162917										
22a pH by 9045C						8.50		8.52		0	1
Batch number: 10348039403B	Sample number(s): 6162943,6162946-6162958 BKG: 6162943										
22a pH by 9045C						8.71		8.73		0	1
Batch number: 10348039404A	Sample number(s): 6162959-6162960 BKG: 6162959										
22a pH by 9045C						8.20		8.21		0	1
Batch number: 10348182103A	Sample number(s): 6162941-6162942 BKG: P162917										
Oxidation Reduction Potential						389		391		0	6
Batch number: 10348182103B	Sample number(s): 6162943,6162946-6162958 BKG: 6162943										
Oxidation Reduction Potential						439		439		0	6
Batch number: 10348182104A	Sample number(s): 6162959-6162960 BKG: 6162959										
Oxidation Reduction Potential						417		416		0	6
Batch number: 10349162402A	Sample number(s): 6162943-6162948,6162951-6162956 BKG: 6162943										
28a Moisture Content by 160.3						4.3		4.4		3	20
28a Moisture Content by 160.3						4.3		4.4		3	20
28a Moisture Content by 160.3						4.3		4.4		3	20
Batch number: 10357162401B	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 BKG: 6162958										
28a Moisture Content by 160.3						9.1		9.2		0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6162941	105	103	96	93
6162942	106	104	95	92
6162949	106	101	98	92
6162950	105	103	96	92
6162951	107	108	96	92
6162957	106	101	98	90

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Surrogate Quality Control

6162958	105	100	97	89
6162959	104	101	97	90
6162960	105	100	97	90
Blank	104	102	96	92
LCS	101	105	100	100
MS	100	100	102	98
MSD	101	103	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103493AA

	Toluene-d8
6162941	101
6162942	101
6162949	100
6162950	100
6162951	101
6162957	100
6162958	100
6162959	101
6162960	101
Blank	99
LCS	99
LCSD	101
MS	101
MSD	100
Limits:	70-130

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10349SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162941	94	83	85
6162942	95	83	89
6162943	94	84	91
6162944	95	85	85
6162945	97	85	89
6162947	115	91	103
6162948	93	84	91
6162949	94	83	87
6162950	90	80	90
6162951	87	78	84
6162952	71	63	89
6162953	95	83	94
6162954	97	85	91
6162955	97	86	99
6162956	94	81	92
6162957	91	84	93
6162958	91	83	92
6162959	96	83	94
6162960	93	84	93
Blank	88	83	96
LCS	93	83	95
MS	95	85	85
MSD	97	85	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Surrogate Quality Control

Limits:	40-130	45-130	45-135			

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10350SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162941	93	88	79	80	80	81
6162942	96	93	83	84	86	88
6162943	92	90	84	84	82	82
6162944	99	94	88	87	89	86
6162945	97	93	85	85	86	83
6162947	96	92	82	85	88	84
6162948	96	93	84	85	89	87
6162949	94	90	81	86	88	86
6162950	96	93	78	84	86	88
6162951	90	86	76	79	81	86
6162952	91	88	76	81	84	84
6162953	96	93	79	84	86	88
6162954	100	96	82	87	90	89
6162955	96	93	82	86	87	85
6162956	93	91	80	82	85	85
6162957	92	87	75	82	84	83
6162958	90	87	74	82	86	86
6162959	95	91	81	83	85	84
6162960	96	93	79	85	88	85
Blank	94	93	90	88	90	86
LCS	98	95	87	87	89	84
MS	99	94	88	87	89	86
MSD	97	93	85	85	86	83

Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10354SLC026

	N-Nitrosodimethylamine-d6
6162941	103
6162942	105
6162949	156*
6162950	150
6162957	98
6162958	106
6162959	107
6162960	148
Blank	118
LCS	118
MS	101
MSD	97

Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10340B34B

	Trifluorotoluene-F

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Surrogate Quality Control

6162941	94
6162942	91
6162949	92
6162950	89
6162957	88
6162958	89
6162959	89
6162960	89
Blank	98
LCS	93
LCSD	99
MS	94
MSD	85

Limits: 61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103480007A

Butyraldehyde

6162941	105
6162942	105
6162949	104
6162950	104
6162957	102
6162958	106
6162959	96
6162960	103
Blank	102
LCS	100
MS	102
MSD	99

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 103480012A

2-Nitro-m-xylene

6162941	114
6162942	107
6162949	114
6162950	115
6162957	108
6162958	113
6162959	108
6162960	104
Blank	116
LCS	116
LCSD	113
MS	114
MSD	105

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103500026A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162941	118	113
6162942	113	104
6162943	118	125*
6162944	114	114
6162945	114	119
6162947	125	109
6162948	115	114
6162949	101	101
6162950	112	107
6162951	107	107
6162952	97	103
6162953	123	129*
6162954	118	97
6162955	121	82
6162956	116	96
6162957	104	107
6162958	113	97
6162959	116	103
6162960	112	107
Blank	102	114
LCS	110	126*
LCSD	93	117
MS	114	114
MSD	114	119
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103510024A

	2,4-Dichlorophenylacetic acid
6162943	92
6162944	105
6162945	75
6162947	55
6162948	89
6162953	126
6162954	95
6162955	105
6162956	65
Blank	98
LCS	113
MS	105
MSD	75
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 103510029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162943	89	61
6162944	81	80
6162945	89	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Surrogate Quality Control

6162947	90	83
6162948	87	68
6162953	78	87
6162954	84	43
6162955	81	42
6162956	75	39
Blank	85	105
LCS	81	107
MS	81	80
MSD	89	79
Limits:	50-130	20-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 103480003A

	Acetone
6162941	86
6162942	75
6162949	79
6162950	76
6162957	74
6162958	82
6162959	74
6162960	82
Blank	88
LCS	92
MS	89
MSD	87
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103480019A

	Tetramethylene glycol
6162941	89
6162942	86
6162949	81
6162950	85
6162957	89
6162958	80
6162959	82
6162960	80
Blank	95
LCS	96
MS	59
MSD	50
Limits:	50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550026A

	n-Triacontane-d62
6162942	118
6162949	90

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225039
Reported: 01/13/11 at 09:58 AM

Surrogate Quality Control

6162950	102
6162957	93
6162958	92
6162959	91
6162960	95
Blank	97
LCS	94
MS	91
MSD	93
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103570006A

	Chlorobenzene	Orthoterphenyl
6162941	89	97
6162942	82	86
6162949	79	93
6162950	81	89
6162957	66	80
6162958	78	86
6162959	78	88
6162960	77	89
Blank	87	94
LCS	85	94
MS	91	96
MSD	89	97
Limits:	37-125	47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103570035A

	n-Triacontane-d62
6162941	99
Blank	99
LCS	100
LCSD	97
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1225039 Sample# 61602941-60

(1)

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-011-SA5C-SB-4.0-5.0	12.10.10	0939	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-011-SA5C-SB-9.0-10.0	12.10.10	0945	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-288-SA5B-SS-0.0-0.5MS	12.10.10	0940	soil	none	2 x 16 oz. jar & 2 sleeves			X			X	X	X	X	X	X		X	X										Primary & MS/MSD sample
SL-290-SA5B-SS-0.0-0.5	12/10/10	0845	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
DUP03-SA5B-QC-121010	12.10.10	0905	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										

12/10/10

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.10.10 1630		12/10 2000
Received by: (Signature)	Date/Time	Airbill No. 007327992 Tracking Number 869514317112	

Laboratory: Lancaster Laboratories, Inc.

Cooler 1

acct# 13013 Cap# 1225039 sample# 6162941-60

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-010-SA5C-SB-4.0-5.0	12.10.10	1054	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-010-SA5C-SB-9.0-10.0	12.10.10	1103	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-008-SA5C-SB-4.0-5.0	12.10.10	1218	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-008-SA5C-SB-8.0-9.0	12.10.10	1222	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-057-SA5B-SS-0.0-0.5	12.10.10	1120	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-234-SA5B-SS-0.0-0.5	12.10.10	1120	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-235-SA5B-SS-0.0-0.5	12.10.10	1100	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-287-SA5B-SS-0.0-0.5	12.10.10	0955	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.10.10 1630		12/11/10 0940
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317134	

Laboratory: Lancaster Laboratories, Inc.

Cooler 3

869514317134

acct# 13013 Cap# ~~1225037~~ 1225039 sample# ~~G162903-21~~ G162941-60 NLM 12/15/10

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)* Pamela Hartman

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-005-SA5C-SB-4.0-5.0	12.10.10	1529	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-005-SA5C-SB-9.0-10.0	12.10.10	1539	soil	none	3 x 16 oz. & 2 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	forgot to fill 3rd jar
SL-005-SA5C-SB-4.5	12.10.10	1525	soil	none	5 Encore samplers	X	X		X																				GRO was added
SL-005-SA5C-SB-9.5	12.10.10	1535	soil	none	5 Encore samplers	X	X		X																				per PB on 12/13/10.
SL-008-SA5C-SB-4.5	12.10.10	1215	soil	none	4 Encore samplers	X	X																						NLM 12/13/10
SL-009-SA5C-SB-4.5	12.10.10	1415	soil	none	5 Encore samplers	X	X		X																				
SL-009-SA5C-SB-4.0-5.0	12.10.10	1419	soil	none	3 x 16 oz.			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	~~4 oz. jars to be shipped on 12/13/10~~ PB 12.10.10
SL-009-SA5C-SB-9.5	12.10.10	1423	soil	none	5 Encore samplers	X	X		X																				
SL-009-SA5C-SB-9.0-10.0	12.10.10	1428	soil	none	3 x 16 oz.			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-010-SA5C-SB-4.5	12.10.10	1050	soil	none	5 Encore samplers	X	X		X																				
SL-010-SA5C-SB-9.5	12.10.10	1059	soil	none	5 Encore samplers	X	X		X																				
SL-011-SA5C-SB-4.5	12.10.10	0935	soil	none	5 Encore samplers	X	X		X																				
SL-011-SA5C-SB-9.5	12.10.10	0943	soil	none	5 Encore samplers	X	X		X																				

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.10.10 1630		12/14/10 0910	Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Airbill No.** 00732992 Tracking Number 869514317156		Cooler 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/11/2010
Group Number: 1225040
SDG: DX019
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-011-SA5C-SB-4.0-5.0 Soil	6162961
SL-011-SA5C-SB-9.0-10.0 Soil	6162962
SL-288-SA5B-SS-0.0-0.5 Soil	6162963
SL-288-SA5B-SS-0.0-0.5MS Soil	6162964
SL-288-SA5B-SS-0.0-0.5MSD Soil	6162965
SL-290-SA5B-SS-0.0-0.5 Soil	6162966
DUP03-SA5B-QC-121010 Soil	6162967
SL-010-SA5C-SB-4.0-5.0 Soil	6162968
SL-010-SA5C-SB-9.0-10.0 Soil	6162969
SL-008-SA5C-SB-4.0-5.0 Soil	6162970
SL-008-SA5C-SB-8.0-9.0 Soil	6162971
SL-057-SA5B-SS-0.0-0.5 Soil	6162972
SL-234-SA5B-SS-0.0-0.5 Soil	6162973
SL-235-SA5B-SS-0.0-0.5 Soil	6162974
SL-287-SA5B-SS-0.0-0.5 Soil	6162975
SL-005-SA5C-SB-4.0-5.0 Soil	6162976
SL-005-SA5C-SB-9.0-10.0 Soil	6162977
SL-009-SA5C-SB-4.0-5.0 Soil	6162978
SL-009-SA5C-SB-9.0-10.0 Soil	6162979

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

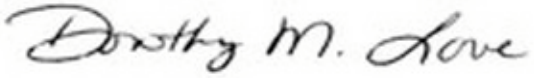

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162961
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1901 SDG#: DX019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162961
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1901 SDG#: DX019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0209 J	0.0166	1.10	1
11031	12378-PeCDD	40321-76-4	0.0882 JBQ	0.0261	5.50	1
11031	123478-HxCDD	39227-28-6	0.0742 JBQ	0.0281	5.50	1
11031	123678-HxCDD	57653-85-7	0.290 JB	0.0285	5.50	1
11031	123789-HxCDD	19408-74-3	0.234 JBQ	0.0277	5.50	1
11031	1234678-HpCDD	35822-46-9	6.68 B	0.0416	5.50	1
11031	OCDD	3268-87-9	66.1 B	0.0338	11.0	1
11031	2378-TCDF	51207-31-9	0.0371 JQ	0.0213	1.10	1
11031	12378-PeCDF	57117-41-6	0.0947 JBQ	0.0113	5.50	1
11031	23478-PeCDF	57117-31-4	0.149 JBQ	0.0110	5.50	1
11031	123478-HxCDF	70648-26-9	0.103 JB	0.0200	5.50	1
11031	123678-HxCDF	57117-44-9	0.0931 JBQ	0.0182	5.50	1
11031	123789-HxCDF	72918-21-9	0.165 JB	0.0204	5.50	1
11031	234678-HxCDF	60851-34-5	0.127 JB	0.0193	5.50	1
11031	1234678-HpCDF	67562-39-4	0.945 JB	0.0162	5.50	1
11031	1234789-HpCDF	55673-89-7	0.149 JB	0.0206	5.50	1
11031	OCDF	39001-02-0	1.75 JB	0.0306	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-011-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162961
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1901 SDG#: DX019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-011-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-4.0-5.0

LLI Sample # SW 6162961
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1901 SDG#: DX019-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/04/2011 14:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-011-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162962
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1902 SDG#: DX019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162962
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1902 SDG#: DX019-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0203	U	0.0203	1.08	1
11031	12378-PeCDD	40321-76-4	0.0293	U	0.0293	5.41	1
11031	123478-HxCDD	39227-28-6	0.102	JBQ	0.0326	5.41	1
11031	123678-HxCDD	57653-85-7	0.345	JB	0.0340	5.41	1
11031	123789-HxCDD	19408-74-3	0.230	JB	0.0337	5.41	1
11031	1234678-HpCDD	35822-46-9	8.54	B	0.0471	5.41	1
11031	OCDD	3268-87-9	109	B	0.0542	10.8	1
11031	2378-TCDF	51207-31-9	0.0282	JQ	0.0224	1.08	1
11031	12378-PeCDF	57117-41-6	0.0832	JBQ	0.0131	5.41	1
11031	23478-PeCDF	57117-31-4	0.158	JB	0.0127	5.41	1
11031	123478-HxCDF	70648-26-9	0.0995	JBQ	0.0236	5.41	1
11031	123678-HxCDF	57117-44-9	0.110	JBQ	0.0211	5.41	1
11031	123789-HxCDF	72918-21-9	0.122	JBQ	0.0266	5.41	1
11031	234678-HxCDF	60851-34-5	0.161	JB	0.0231	5.41	1
11031	1234678-HpCDF	67562-39-4	1.17	JB	0.0182	5.41	1
11031	1234789-HpCDF	55673-89-7	0.142	JBQ	0.0256	5.41	1
11031	OCDF	39001-02-0	2.59	JB	0.0372	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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Analysis Report

Sample Description: SL-011-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162962
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1902 SDG#: DX019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-011-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5C-SB-9.0-10.0

LLI Sample # SW 6162962
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1902 SDG#: DX019-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/04/2011 15:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162963
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-288-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162963
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0189 JQ	0.0189	1.04	1
11031	12378-PeCDD	40321-76-4	0.0375 JBQ	0.0232	5.22	1
11031	123478-HxCDD	39227-28-6	0.0327 JBQ	0.0219	5.22	1
11031	123678-HxCDD	57653-85-7	0.139 JBQ	0.0223	5.22	1
11031	123789-HxCDD	19408-74-3	0.107 JBQ	0.0224	5.22	1
11031	1234678-HpCDD	35822-46-9	2.27 JB	0.0357	5.22	1
11031	OCDD	3268-87-9	21.7 B	0.0364	10.4	1
11031	2378-TCDF	51207-31-9	0.0185 U	0.0185	1.04	1
11031	12378-PeCDF	57117-41-6	0.0329 JBQ	0.0100	5.22	1
11031	23478-PeCDF	57117-31-4	0.0681 JB	0.0108	5.22	1
11031	123478-HxCDF	70648-26-9	0.0769 JB	0.0181	5.22	1
11031	123678-HxCDF	57117-44-9	0.0609 JB	0.0155	5.22	1
11031	123789-HxCDF	72918-21-9	0.0487 JBQ	0.0223	5.22	1
11031	234678-HxCDF	60851-34-5	0.0989 JB	0.0176	5.22	1
11031	1234678-HpCDF	67562-39-4	0.612 JB	0.0130	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0805 JB	0.0210	5.22	1
11031	OCDF	39001-02-0	1.06 JB	0.0343	10.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162963
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162963
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/04/2011 16:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162964
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-288-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162964
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.3		0.0419	1.04	1
11031	12378-PeCDD	40321-76-4	112	B	0.0537	5.22	1
11031	123478-HxCDD	39227-28-6	112	B	0.0426	5.22	1
11031	123678-HxCDD	57653-85-7	110	B	0.0438	5.22	1
11031	123789-HxCDD	19408-74-3	111	B	0.0420	5.22	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0672	5.22	1
11031	OCDD	3268-87-9	248	B	0.0621	10.4	1
11031	2378-TCDF	51207-31-9	23.1		0.0387	1.04	1
11031	12378-PeCDF	57117-41-6	109	B	0.0271	5.22	1
11031	23478-PeCDF	57117-31-4	110	B	0.0276	5.22	1
11031	123478-HxCDF	70648-26-9	107	B	0.0526	5.22	1
11031	123678-HxCDF	57117-44-9	106	B	0.0462	5.22	1
11031	123789-HxCDF	72918-21-9	104	B	0.0604	5.22	1
11031	234678-HxCDF	60851-34-5	106	B	0.0499	5.22	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0421	5.22	1
11031	1234789-HpCDF	55673-89-7	106	B	0.0642	5.22	1
11031	OCDF	39001-02-0	215	B	0.0534	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	62	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162964
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162964
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/04/2011 17:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162965
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-288-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162965
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.5		0.0332	1.04	1
11031	12378-PeCDD	40321-76-4	111	B	0.0467	5.22	1
11031	123478-HxCDD	39227-28-6	110	B	0.0447	5.22	1
11031	123678-HxCDD	57653-85-7	108	B	0.0445	5.22	1
11031	123789-HxCDD	19408-74-3	110	B	0.0463	5.22	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0629	5.22	1
11031	OCDD	3268-87-9	246	B	0.0493	10.4	1
11031	2378-TCDF	51207-31-9	23.5		0.0325	1.04	1
11031	12378-PeCDF	57117-41-6	110	B	0.0203	5.22	1
11031	23478-PeCDF	57117-31-4	109	B	0.0207	5.22	1
11031	123478-HxCDF	70648-26-9	106	B	0.0544	5.22	1
11031	123678-HxCDF	57117-44-9	104	B	0.0446	5.22	1
11031	123789-HxCDF	72918-21-9	104	B	0.0630	5.22	1
11031	234678-HxCDF	60851-34-5	105	B	0.0503	5.22	1
11031	1234678-HpCDF	67562-39-4	105	B	0.0373	5.22	1
11031	1234789-HpCDF	55673-89-7	104	B	0.0601	5.22	1
11031	OCDF	39001-02-0	211	B	0.0540	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162965
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-288-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-288-SA5B-SS-0.0-0.5

LLI Sample # SW 6162965
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:40

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1903 SDG#: DX019-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/04/2011 18:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-290-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162966
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1904 SDG#: DX019-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-290-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162966
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1904 SDG#: DX019-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0419	JQ	0.0247	1.07	1
11031	12378-PeCDD	40321-76-4	0.180	JBQ	0.0344	5.36	1
11031	123478-HxCDD	39227-28-6	0.247	JB	0.0392	5.36	1
11031	123678-HxCDD	57653-85-7	0.776	JB	0.0405	5.36	1
11031	123789-HxCDD	19408-74-3	0.393	JB	0.0398	5.36	1
11031	1234678-HpCDD	35822-46-9	22.2	B	0.0683	5.36	1
11031	OCDD	3268-87-9	428	B	0.0634	10.7	1
11031	2378-TCDF	51207-31-9	0.0309	J	0.0231	1.07	1
11031	12378-PeCDF	57117-41-6	0.0991	JB	0.0150	5.36	1
11031	23478-PeCDF	57117-31-4	0.273	JB	0.0149	5.36	1
11031	123478-HxCDF	70648-26-9	0.278	JB	0.0259	5.36	1
11031	123678-HxCDF	57117-44-9	0.223	JBQ	0.0225	5.36	1
11031	123789-HxCDF	72918-21-9	0.156	JB	0.0289	5.36	1
11031	234678-HxCDF	60851-34-5	0.248	JB	0.0248	5.36	1
11031	1234678-HpCDF	67562-39-4	3.91	JB	0.0186	5.36	1
11031	1234789-HpCDF	55673-89-7	0.300	JB	0.0286	5.36	1
11031	OCDF	39001-02-0	11.5	B	0.0379	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-290-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162966
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1904 SDG#: DX019-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-290-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-290-SA5B-SS-0.0-0.5

LLI Sample # SW 6162966
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 08:45

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

X1904 SDG#: DX019-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/04/2011 19:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Analysis Report

Sample Description: **DUP03-SA5B-QC-121010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162967
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1905 SDG#: DX019-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP03-SA5B-QC-121010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162967
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1905 SDG#: DX019-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0263	JQ	0.0202	1.05	1
11031	12378-PeCDD	40321-76-4	0.0979	JB	0.0271	5.25	1
11031	123478-HxCDD	39227-28-6	0.0616	JB	0.0187	5.25	1
11031	123678-HxCDD	57653-85-7	0.101	JBQ	0.0192	5.25	1
11031	123789-HxCDD	19408-74-3	0.103	JB	0.0189	5.25	1
11031	1234678-HpCDD	35822-46-9	1.76	JB	0.0297	5.25	1
11031	OCDD	3268-87-9	18.7	B	0.0300	10.5	1
11031	2378-TCDF	51207-31-9	0.0207	J	0.0182	1.05	1
11031	12378-PeCDF	57117-41-6	0.0829	JBQ	0.00966	5.25	1
11031	23478-PeCDF	57117-31-4	0.103	JB	0.00966	5.25	1
11031	123478-HxCDF	70648-26-9	0.0978	JB	0.0163	5.25	1
11031	123678-HxCDF	57117-44-9	0.0837	JBQ	0.0136	5.25	1
11031	123789-HxCDF	72918-21-9	0.0698	JB	0.0201	5.25	1
11031	234678-HxCDF	60851-34-5	0.0908	JBQ	0.0163	5.25	1
11031	1234678-HpCDF	67562-39-4	0.475	JBQ	0.0117	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0568	JBQ	0.0203	5.25	1
11031	OCDF	39001-02-0	0.728	JBQ	0.0298	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP03-SA5B-QC-121010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162967
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1905 SDG#: DX019-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP03-SA5B-QC-121010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5B-QC-121010

LLI Sample # SW 6162967
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:05

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1905 SDG#: DX019-05FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/04/2011 20:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162968
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:54

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1906 SDG#: DX019-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162968
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:54

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1906 SDG#: DX019-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0332	JQ	0.0220	1.14	1
11031	12378-PeCDD	40321-76-4	0.0994	JBQ	0.0339	5.71	1
11031	123478-HxCDD	39227-28-6	0.0979	JBQ	0.0469	5.71	1
11031	123678-HxCDD	57653-85-7	0.389	JB	0.0461	5.71	1
11031	123789-HxCDD	19408-74-3	0.337	JBQ	0.0479	5.71	1
11031	1234678-HpCDD	35822-46-9	8.86	B	0.0611	5.71	1
11031	OCDD	3268-87-9	110	B	0.0523	11.4	1
11031	2378-TCDF	51207-31-9	0.0272	JQ	0.0271	1.14	1
11031	12378-PeCDF	57117-41-6	0.111	JBQ	0.0138	5.71	1
11031	23478-PeCDF	57117-31-4	0.115	JB	0.0142	5.71	1
11031	123478-HxCDF	70648-26-9	0.132	JB	0.0303	5.71	1
11031	123678-HxCDF	57117-44-9	0.148	JB	0.0250	5.71	1
11031	123789-HxCDF	72918-21-9	0.228	JB	0.0329	5.71	1
11031	234678-HxCDF	60851-34-5	0.150	JBQ	0.0282	5.71	1
11031	1234678-HpCDF	67562-39-4	1.46	JB	0.0247	5.71	1
11031	1234789-HpCDF	55673-89-7	0.170	JBQ	0.0404	5.71	1
11031	OCDF	39001-02-0	3.07	JB	0.0443	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162968
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:54

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1906 SDG#: DX019-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-4.0-5.0

LLI Sample # SW 6162968
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 10:54

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1906 SDG#: DX019-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 00:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-010-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162969
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1907 SDG#: DX019-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162969
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1907 SDG#: DX019-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0361 JQ	0.0230	1.10	1
11031	12378-PeCDD	40321-76-4	0.0654 JBQ	0.0290	5.48	1
11031	123478-HxCDD	39227-28-6	0.0396 JB	0.0246	5.48	1
11031	123678-HxCDD	57653-85-7	0.0683 JBQ	0.0260	5.48	1
11031	123789-HxCDD	19408-74-3	0.0838 JB	0.0248	5.48	1
11031	1234678-HpCDD	35822-46-9	1.73 JB	0.0366	5.48	1
11031	OCDD	3268-87-9	20.5 B	0.0442	11.0	1
11031	2378-TCDF	51207-31-9	0.0285 JQ	0.0207	1.10	1
11031	12378-PeCDF	57117-41-6	0.0521 JBQ	0.0107	5.48	1
11031	23478-PeCDF	57117-31-4	0.0749 JB	0.0119	5.48	1
11031	123478-HxCDF	70648-26-9	0.0865 JB	0.0198	5.48	1
11031	123678-HxCDF	57117-44-9	0.0503 JB	0.0152	5.48	1
11031	123789-HxCDF	72918-21-9	0.100 JB	0.0245	5.48	1
11031	234678-HxCDF	60851-34-5	0.0951 JBQ	0.0193	5.48	1
11031	1234678-HpCDF	67562-39-4	0.332 JB	0.0146	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0747 JBQ	0.0283	5.48	1
11031	OCDF	39001-02-0	0.528 JB	0.0452	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162969
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1907 SDG#: DX019-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5C-SB-9.0-10.0

LLI Sample # SW 6162969
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:03

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1907 SDG#: DX019-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 01:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162970
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1908 SDG#: DX019-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162970
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1908 SDG#: DX019-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.145	JQ	0.0231	1.15	1
11031	12378-PeCDD	40321-76-4	0.246	JB	0.0348	5.75	1
11031	123478-HxCDD	39227-28-6	0.0557	JB	0.0246	5.75	1
11031	123678-HxCDD	57653-85-7	0.207	JBQ	0.0254	5.75	1
11031	123789-HxCDD	19408-74-3	0.434	JB	0.0247	5.75	1
11031	1234678-HpCDD	35822-46-9	0.316	JBQ	0.0381	5.75	1
11031	OCDD	3268-87-9	2.45	JB	0.0468	11.5	1
11031	2378-TCDF	51207-31-9	0.172	J	0.0217	1.15	1
11031	12378-PeCDF	57117-41-6	0.498	JBQ	0.0131	5.75	1
11031	23478-PeCDF	57117-31-4	0.286	JBQ	0.0130	5.75	1
11031	123478-HxCDF	70648-26-9	0.129	JB	0.0203	5.75	1
11031	123678-HxCDF	57117-44-9	0.115	JBQ	0.0183	5.75	1
11031	123789-HxCDF	72918-21-9	0.373	JB	0.0232	5.75	1
11031	234678-HxCDF	60851-34-5	0.114	JBQ	0.0194	5.75	1
11031	1234678-HpCDF	67562-39-4	0.281	JB	0.0160	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0802	JBQ	0.0252	5.75	1
11031	OCDF	39001-02-0	0.229	JB	0.0399	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-008-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162970
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1908 SDG#: DX019-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-4.0-5.0

LLI Sample # SW 6162970
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:18

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1908 SDG#: DX019-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 02:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162971
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1909 SDG#: DX019-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162971
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1909 SDG#: DX019-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0169 U	0.0169	1.10	1
11031	12378-PeCDD	40321-76-4	0.0324 JBQ	0.0227	5.48	1
11031	123478-HxCDD	39227-28-6	0.0671 JB	0.0246	5.48	1
11031	123678-HxCDD	57653-85-7	0.113 JBQ	0.0251	5.48	1
11031	123789-HxCDD	19408-74-3	0.125 JB	0.0248	5.48	1
11031	1234678-HpCDD	35822-46-9	5.21 JB	0.0369	5.48	1
11031	OCDD	3268-87-9	49.2 B	0.0361	11.0	1
11031	2378-TCDF	51207-31-9	0.0142 U	0.0142	1.10	1
11031	12378-PeCDF	57117-41-6	0.0471 JB	0.00909	5.48	1
11031	23478-PeCDF	57117-31-4	0.0588 JBQ	0.00876	5.48	1
11031	123478-HxCDF	70648-26-9	0.108 JBQ	0.0175	5.48	1
11031	123678-HxCDF	57117-44-9	0.0954 JB	0.0153	5.48	1
11031	123789-HxCDF	72918-21-9	0.0771 JBQ	0.0195	5.48	1
11031	234678-HxCDF	60851-34-5	0.126 JB	0.0159	5.48	1
11031	1234678-HpCDF	67562-39-4	0.670 JB	0.0123	5.48	1
11031	1234789-HpCDF	55673-89-7	0.192 JBQ	0.0174	5.48	1
11031	OCDF	39001-02-0	0.906 JB	0.0273	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162971
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1909 SDG#: DX019-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5C-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5C-SB-8.0-9.0

LLI Sample # SW 6162971
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 12:22

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1909 SDG#: DX019-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 03:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-057-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162972
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1910 SDG#: DX019-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-057-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162972
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1910 SDG#: DX019-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0213	U	0.0213	1.16	1
11031	12378-PeCDD	40321-76-4	0.0627	JBQ	0.0321	5.79	1
11031	123478-HxCDD	39227-28-6	0.0583	JBQ	0.0298	5.79	1
11031	123678-HxCDD	57653-85-7	0.230	JB	0.0306	5.79	1
11031	123789-HxCDD	19408-74-3	0.207	JB	0.0287	5.79	1
11031	1234678-HpCDD	35822-46-9	6.84	B	0.0452	5.79	1
11031	OCDD	3268-87-9	86.0	B	0.0487	11.6	1
11031	2378-TCDF	51207-31-9	0.0203	U	0.0203	1.16	1
11031	12378-PeCDF	57117-41-6	0.102	JBQ	0.0117	5.79	1
11031	23478-PeCDF	57117-31-4	0.118	JBQ	0.0114	5.79	1
11031	123478-HxCDF	70648-26-9	0.0702	JBQ	0.0196	5.79	1
11031	123678-HxCDF	57117-44-9	0.0620	JBQ	0.0169	5.79	1
11031	123789-HxCDF	72918-21-9	0.0902	JBQ	0.0207	5.79	1
11031	234678-HxCDF	60851-34-5	0.0885	JB	0.0189	5.79	1
11031	1234678-HpCDF	67562-39-4	0.890	JB	0.0239	5.79	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0336	5.79	1
11031	OCDF	39001-02-0	2.48	JB	0.0291	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162972
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1910 SDG#: DX019-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5B-SS-0.0-0.5

LLI Sample # SW 6162972
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1910 SDG#: DX019-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 04:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-234-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162973
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1911 SDG#: DX019-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-234-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162973
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1911 SDG#: DX019-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0595	JQ	0.0269	1.09	1
11031	12378-PeCDD	40321-76-4	0.241	JB	0.0522	5.47	1
11031	123478-HxCDD	39227-28-6	0.574	JBQ	0.0386	5.47	1
11031	123678-HxCDD	57653-85-7	2.72	JB	0.0396	5.47	1
11031	123789-HxCDD	19408-74-3	1.09	JB	0.0386	5.47	1
11031	1234678-HpCDD	35822-46-9	82.2	B	0.0988	5.47	1
11031	OCDD	3268-87-9	931	B	0.0792	10.9	1
11031	2378-TCDF	51207-31-9	0.0478	JQ	0.0289	1.09	1
11031	12378-PeCDF	57117-41-6	0.191	JB	0.0182	5.47	1
11031	23478-PeCDF	57117-31-4	0.251	JB	0.0176	5.47	1
11031	123478-HxCDF	70648-26-9	0.287	JB	0.0282	5.47	1
11031	123678-HxCDF	57117-44-9	0.339	JB	0.0264	5.47	1
11031	123789-HxCDF	72918-21-9	0.156	JBQ	0.0309	5.47	1
11031	234678-HxCDF	60851-34-5	0.550	JB	0.0267	5.47	1
11031	1234678-HpCDF	67562-39-4	7.77	B	0.0303	5.47	1
11031	1234789-HpCDF	55673-89-7	0.842	JB	0.0377	5.47	1
11031	OCDF	39001-02-0	19.7	B	0.0309	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-234-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162973
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1911 SDG#: DX019-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-234-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SS-0.0-0.5

LLI Sample # SW 6162973
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:20

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1911 SDG#: DX019-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 05:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-235-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162974
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1912 SDG#: DX019-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-235-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162974
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1912 SDG#: DX019-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.391	JQ	0.0364	1.08	1
11031	12378-PeCDD	40321-76-4	3.40	JB	0.0705	5.41	1
11031	123478-HxCDD	39227-28-6	5.71	B	0.0694	5.41	1
11031	123678-HxCDD	57653-85-7	29.8	B	0.0710	5.41	1
11031	123789-HxCDD	19408-74-3	10.9	B	0.0681	5.41	1
11031	1234678-HpCDD	35822-46-9	802	B	0.223	5.41	1
11031	OCDD	3268-87-9	8,490	EB	0.239	10.8	1
11031	2378-TCDF	51207-31-9	0.180	J	0.0576	1.08	1
11031	12378-PeCDF	57117-41-6	0.741	JB	0.0235	5.41	1
11031	23478-PeCDF	57117-31-4	1.41	JB	0.0214	5.41	1
11031	123478-HxCDF	70648-26-9	2.92	JB	0.0631	5.41	1
11031	123678-HxCDF	57117-44-9	4.08	JB	0.0596	5.41	1
11031	123789-HxCDF	72918-21-9	0.879	JB	0.0639	5.41	1
11031	234678-HxCDF	60851-34-5	6.71	B	0.0590	5.41	1
11031	1234678-HpCDF	67562-39-4	102	B	0.0727	5.41	1
11031	1234789-HpCDF	55673-89-7	9.72	B	0.0848	5.41	1
11031	OCDF	39001-02-0	212	B	0.0487	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	101	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-235-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162974
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1912 SDG#: DX019-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-235-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-235-SA5B-SS-0.0-0.5

LLI Sample # SW 6162974
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 11:00

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1912 SDG#: DX019-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 06:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

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Analysis Report

Sample Description: **SL-287-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162975
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1913 SDG#: DX019-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-287-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162975
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1913 SDG#: DX019-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0338	JQ	0.0213	1.08	1
11031	12378-PeCDD	40321-76-4	0.199	JBQ	0.0386	5.41	1
11031	123478-HxCDD	39227-28-6	0.364	JB	0.0355	5.41	1
11031	123678-HxCDD	57653-85-7	0.948	JB	0.0363	5.41	1
11031	123789-HxCDD	19408-74-3	0.811	JB	0.0359	5.41	1
11031	1234678-HpCDD	35822-46-9	34.4	B	0.0794	5.41	1
11031	OCDD	3268-87-9	486	B	0.0631	10.8	1
11031	2378-TCDF	51207-31-9	0.0571	JQ	0.0241	1.08	1
11031	12378-PeCDF	57117-41-6	0.159	JB	0.0146	5.41	1
11031	23478-PeCDF	57117-31-4	0.185	JBQ	0.0139	5.41	1
11031	123478-HxCDF	70648-26-9	0.272	JB	0.0232	5.41	1
11031	123678-HxCDF	57117-44-9	0.319	JB	0.0211	5.41	1
11031	123789-HxCDF	72918-21-9	0.108	JBQ	0.0256	5.41	1
11031	234678-HxCDF	60851-34-5	0.364	JBQ	0.0216	5.41	1
11031	1234678-HpCDF	67562-39-4	4.73	JB	0.0242	5.41	1
11031	1234789-HpCDF	55673-89-7	0.479	JB	0.0338	5.41	1
11031	OCDF	39001-02-0	8.60	JB	0.0339	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-287-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162975
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1913 SDG#: DX019-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-287-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SS-0.0-0.5

LLI Sample # SW 6162975
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 09:55

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1913 SDG#: DX019-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 07:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402A	12/15/2010 09:36	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162976
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1914 SDG#: DX019-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162976
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1914 SDG#: DX019-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0254	JQ	0.0226	1.15	1
11031	12378-PeCDD	40321-76-4	0.0880	JB	0.0339	5.76	1
11031	123478-HxCDD	39227-28-6	0.0253	U	0.0253	5.76	1
11031	123678-HxCDD	57653-85-7	0.187	JB	0.0259	5.76	1
11031	123789-HxCDD	19408-74-3	0.355	JB	0.0249	5.76	1
11031	1234678-HpCDD	35822-46-9	0.599	JB	0.0416	5.76	1
11031	OCDD	3268-87-9	4.14	JB	0.0449	11.5	1
11031	2378-TCDF	51207-31-9	0.0287	JQ	0.0240	1.15	1
11031	12378-PeCDF	57117-41-6	0.263	JB	0.0141	5.76	1
11031	23478-PeCDF	57117-31-4	0.107	JBQ	0.0147	5.76	1
11031	123478-HxCDF	70648-26-9	0.0673	JBQ	0.0249	5.76	1
11031	123678-HxCDF	57117-44-9	0.0681	JB	0.0211	5.76	1
11031	123789-HxCDF	72918-21-9	0.342	JB	0.0290	5.76	1
11031	234678-HxCDF	60851-34-5	0.0841	JBQ	0.0232	5.76	1
11031	1234678-HpCDF	67562-39-4	0.265	JBQ	0.0167	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0365	JBQ	0.0276	5.76	1
11031	OCDF	39001-02-0	0.400	JB	0.0403	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162976
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1914 SDG#: DX019-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-4.0-5.0

LLI Sample # SW 6162976
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:29

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1914 SDG#: DX019-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 08:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162977
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX019-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162977
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX019-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0433	J	0.0228	1.10	1
11031	12378-PeCDD	40321-76-4	0.0651	JBQ	0.0309	5.50	1
11031	123478-HxCDD	39227-28-6	0.0778	JBQ	0.0377	5.50	1
11031	123678-HxCDD	57653-85-7	0.369	JB	0.0389	5.50	1
11031	123789-HxCDD	19408-74-3	0.299	JB	0.0377	5.50	1
11031	1234678-HpCDD	35822-46-9	8.95	B	0.0569	5.50	1
11031	OCDD	3268-87-9	115	B	0.0551	11.0	1
11031	2378-TCDF	51207-31-9	0.0211	U	0.0211	1.10	1
11031	12378-PeCDF	57117-41-6	0.104	JB	0.0123	5.50	1
11031	23478-PeCDF	57117-31-4	0.119	JB	0.0121	5.50	1
11031	123478-HxCDF	70648-26-9	0.122	JB	0.0252	5.50	1
11031	123678-HxCDF	57117-44-9	0.118	JB	0.0230	5.50	1
11031	123789-HxCDF	72918-21-9	0.216	JB	0.0276	5.50	1
11031	234678-HxCDF	60851-34-5	0.149	JB	0.0238	5.50	1
11031	1234678-HpCDF	67562-39-4	1.12	JB	0.0285	5.50	1
11031	1234789-HpCDF	55673-89-7	0.188	JB	0.0393	5.50	1
11031	OCDF	39001-02-0	2.74	JB	0.0383	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162977
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX019-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-005-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162977
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1915 SDG#: DX019-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 12:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-009-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162978
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1916 SDG#: DX019-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162978
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1916 SDG#: DX019-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0155	U	0.0155	1.07	1
11031	12378-PeCDD	40321-76-4	0.0531	JBQ	0.0218	5.35	1
11031	123478-HxCDD	39227-28-6	0.0473	JBQ	0.0240	5.35	1
11031	123678-HxCDD	57653-85-7	0.196	JB	0.0249	5.35	1
11031	123789-HxCDD	19408-74-3	0.156	JB	0.0241	5.35	1
11031	1234678-HpCDD	35822-46-9	3.08	JB	0.0306	5.35	1
11031	OCDD	3268-87-9	29.8	B	0.0302	10.7	1
11031	2378-TCDF	51207-31-9	0.0171	U	0.0171	1.07	1
11031	12378-PeCDF	57117-41-6	0.0731	JB	0.0102	5.35	1
11031	23478-PeCDF	57117-31-4	0.167	JB	0.0101	5.35	1
11031	123478-HxCDF	70648-26-9	0.0872	JBQ	0.0163	5.35	1
11031	123678-HxCDF	57117-44-9	0.102	JB	0.0147	5.35	1
11031	123789-HxCDF	72918-21-9	0.120	JBQ	0.0175	5.35	1
11031	234678-HxCDF	60851-34-5	0.128	JB	0.0154	5.35	1
11031	1234678-HpCDF	67562-39-4	0.873	JB	0.0137	5.35	1
11031	1234789-HpCDF	55673-89-7	0.110	JBQ	0.0186	5.35	1
11031	OCDF	39001-02-0	1.60	JB	0.0240	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162978
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1916 SDG#: DX019-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162978
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1916 SDG#: DX019-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 13:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162979
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1917 SDG#: DX019-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162979
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1917 SDG#: DX019-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0202	U	0.0202	1.12	1
11031	12378-PeCDD	40321-76-4	0.0291	U	0.0291	5.59	1
11031	123478-HxCDD	39227-28-6	0.0475	JBQ	0.0264	5.59	1
11031	123678-HxCDD	57653-85-7	0.209	JB	0.0271	5.59	1
11031	123789-HxCDD	19408-74-3	0.150	JBQ	0.0262	5.59	1
11031	1234678-HpCDD	35822-46-9	4.02	JB	0.0361	5.59	1
11031	OCDD	3268-87-9	40.0	B	0.0390	11.2	1
11031	2378-TCDF	51207-31-9	0.0226	U	0.0226	1.12	1
11031	12378-PeCDF	57117-41-6	0.0591	JBQ	0.0111	5.59	1
11031	23478-PeCDF	57117-31-4	0.0701	JB	0.0115	5.59	1
11031	123478-HxCDF	70648-26-9	0.0687	JB	0.0191	5.59	1
11031	123678-HxCDF	57117-44-9	0.0694	JB	0.0167	5.59	1
11031	123789-HxCDF	72918-21-9	0.118	JB	0.0216	5.59	1
11031	234678-HxCDF	60851-34-5	0.112	JBQ	0.0188	5.59	1
11031	1234678-HpCDF	67562-39-4	0.606	JBQ	0.0136	5.59	1
11031	1234789-HpCDF	55673-89-7	0.0940	JB	0.0223	5.59	1
11031	OCDF	39001-02-0	1.11	JB	0.0348	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162979
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1917 SDG#: DX019-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162979
LLI Group # 1225040
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

Submitted: 12/11/2010 09:40
Reported: 01/13/2011 18:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1917 SDG#: DX019-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362002	01/05/2011 14:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10362002	12/28/2010 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010 21:06	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225040
Reported: 01/13/11 at 06:29 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10349162402A	Sample number(s): 6162963-6162967,6162970-6162975								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10357162401B	Sample number(s): 6162961-6162962,6162968-6162969,6162976-6162979								
28a Moisture Content by 160.3					99		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10362002	Sample number(s): 6162961-6162979								
2378-TCDD	0.0158 U	0.0158	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0355 J	0.0205	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0307 J	0.0199	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0353 J	0.0201	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0281 J	0.0197	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.149 J	0.0302	5.00	ng/kg	101		70-140		
OCDD	0.512 J	0.0298	10.0	ng/kg	100		78-144		
2378-TCDF	0.0132 U	0.0132	1.00	ng/kg	108		75-158		
12378-PeCDF	0.0537 J	0.00850	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0578 J	0.00830	5.00	ng/kg	101		68-160		
123478-HxCDF	0.0530 J	0.0148	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0541 J	0.0126	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0334 J	0.0158	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0767 J	0.0142	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.210 J	0.0133	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0776 J	0.0204	5.00	ng/kg	97		78-138		
OCDF	0.246 J	0.0323	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10349162402A	Sample number(s): 6162963-6162967,6162970-6162975					BKG: P162943			
28a Moisture Content by 160.3						4.3	4.4	3	20
Batch number: 10357162401B	Sample number(s): 6162961-6162962,6162968-6162969,6162976-6162979					BKG: P162958			
28a Moisture Content by 160.3						9.1	9.2	0	20
Batch number: 10362002	Sample number(s): 6162961-6162979 UNSPK: 6162963								
2378-TCDD	107	103	67-158	4	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225040
Reported: 01/13/11 at 06:29 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	107	106	70-142	1	25				
123478-HxCDD	107	105	70-164	2	25				
123678-HxCDD	105	103	76-134	2	25				
123789-HxCDD	106	105	64-162	1	25				
1234678-HpCDD	104	105	70-140	1	25				
OCDD	108	107	78-144	1	25				
2378-TCDF	111	112	75-158	1	25				
12378-PeCDF	105	105	80-134	0	25				
23478-PeCDF	105	104	68-160	1	25				
123478-HxCDF	102	102	72-134	1	25				
123678-HxCDF	101	99	84-130	2	25				
123789-HxCDF	100	99	78-130	1	25				
234678-HxCDF	101	100	70-156	1	25				
1234678-HpCDF	101	99	82-122	2	25				
1234789-HpCDF	101	100	78-138	1	25				
OCDF	102	100	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 10362002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6162961	78	96	83	87	85	91
6162962	68	85	74	79	75	73
6162963	69	86	81	92	82	74
6162964	59	75	70	77	73	69
6162965	68	88	81	92	82	78
6162966	73	88	77	85	78	76
6162967	62	83	76	87	76	69
6162968	70	83	74	84	76	76
6162969	68	87	76	92	76	68
6162970	68	82	72	79	72	70
6162971	75	97	84	92	86	83
6162972	75	94	83	90	85	88
6162973	76	93	83	86	85	85
6162974	81	101	87	88	89	94
6162975	79	96	85	88	86	84
6162976	73	88	74	83	77	71
6162977	77	93	82	87	83	84
6162978	76	94	81	86	84	84
6162979	77	92	80	88	81	80
Blank	67	84	77	85	80	80
MS	59	75	70	77	73	69
MSD	68	88	81	92	82	78
OPR	63	66	59	66	64	69

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225040
Reported: 01/13/11 at 06:29 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6162961	92	85	75	81	90	84
6162962	87	73	65	76	80	76
6162963	108	78	70	69	85	83
6162964	92	71	64	62	73	73
6162965	101	77	68	73	84	83
6162966	97	75	68	76	85	83
6162967	100	70	63	69	80	80
6162968	92	70	63	74	79	77
6162969	107	66	58	79	86	83
6162970	89	67	58	77	79	74
6162971	103	83	73	82	89	83
6162972	98	84	77	80	88	84
6162973	92	88	79	82	87	81
6162974	89	91	84	86	93	84
6162975	99	84	74	85	91	85
6162976	97	71	61	80	85	80
6162977	92	82	73	81	88	83
6162978	94	82	73	80	87	84
6162979	99	77	63	81	88	84
Blank	97	80	74	72	82	82
MS	92	71	64	62	73	73
MSD	101	77	68	73	84	83
OPR	77	66	59	59	66	63

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6162961	83	84	85	80	84	97
6162962	74	74	77	72	73	87
6162963	85	83	87	84	69	95
6162964	72	73	79	74	61	80
6162965	83	81	85	79	74	95
6162966	80	80	83	78	77	94
6162967	78	77	82	78	67	89
6162968	77	77	77	73	76	91
6162969	81	81	83	78	75	100
6162970	74	73	75	69	75	87
6162971	84	84	87	83	83	100
6162972	83	84	87	83	83	97
6162973	82	82	86	83	84	95
6162974	84	85	87	83	88	98
6162975	87	85	88	82	84	98
6162976	80	80	82	75	76	96
6162977	82	84	84	79	84	97
6162978	81	82	85	80	82	97
6162979	82	84	85	67	83	100
Blank	81	82	87	84	69	87
MS	72	73	79	74	61	80
MSD	83	81	85	79	74	95
OPR	64	70	70	70	64	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225040
Reported: 01/13/11 at 06:29 PM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1225040 Sample# 6162961-79

(1)

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-011-SA5C-SB-4.0-5.0	12.10.10	0939	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-011-SA5C-SB-9.0-10.0	12.10.10	0945	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-288-SA5B-SS-0.0-0.SMS	12.10.10	0940	soil	none	2 x 16 oz. jar & 2 sleeves			X			X	X	X	X	X	X		X	X										Primary & MS/MSD sample
SL-290-SA5B-SS-0.0-0.5	12/10/10	0845	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
DUP03-SA5B-QC-121010	12.10.10	0905	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										

RB 12/10/10

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.10.10 1630		12/10 0930	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. 007232992 Tracking Number 869514317112		Cooler 1

acct# 13013 Op# 1225040 sample# 61629961-79

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-010-SA5C-SB-4.0-5.0	12.10.10	1054	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-010-SA5C-SB-9.0-10.0	12.10.10	1103	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-008-SA5C-SB-4.0-5.0	12.10.10	1218	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-008-SA5C-SB-8.0-9.0	12.10.10	1222	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-057-SA5B-SS-0.0-0.5	12.10.10	1120	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-234-SA5B-SS-0.0-0.5	12.10.10	1120	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-235-SA5B-SS-0.0-0.5	12.10.10	1100	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										
SL-287-SA5B-SS-0.0-0.5	12.10.10	0955	soil	none	1 x 16 oz. jar & 1 sleeve			X			X	X	X	X	X	X		X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.10.10 1630			Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. 807732992 Tracking Number 869514317134		Cooler 3

869514317134

acct# 13013 Cap# 1225040 sample# 61629961-79

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature) Pamela Tortman

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	(Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-005-SA5C-SB-4.0-5.0	12.10.10	1529	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-005-SA5C-SB-9.0-10.0	12.10.10	1539	soil	none	3 x 16 oz. & 2 x 4 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	forgot to fill 3rd jar
SL-005-SA5C-SB-4.5	12.10.10	1525	soil	none	5 Encore samplers	X	X																					
SL-005-SA5C-SB-9.5	12.10.10	1535	soil	none	5 Encore samplers	X	X																					
SL-008-SA5C-SB-4.5	12.10.10	1215	soil	none	4 Encore samplers	X	X																					
SL-009-SA5C-SB-4.5	12.10.10	1415	soil	none	5 Encore samplers	X	X																					
SL-009-SA5C-SB-4.0-5.0	12.10.10	1419	soil	none	3 x 16 oz.			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	~~4 oz jars to be shipped on 12/13/10~~ PB 12.10.10
SL-009-SA5C-SB-9.5	12.10.10	1423	soil	none	5 Encore samplers	X	X																					
SL-009-SA5C-SB-9.0-10.0	12.10.10	1428	soil	none	3 x 16 oz.			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-010-SA5C-SB-4.5	12.10.10	1050	soil	none	5 Encore samplers	X	X																					
SL-010-SA5C-SB-9.5	12.10.10	1059	soil	none	5 Encore samplers	X	X																					
SL-011-SA5C-SB-4.5	12.10.10	0935	soil	none	5 Encore samplers	X	X																					
SL-011-SA5C-SB-9.5	12.10.10	0943	soil	none	5 Encore samplers	X	X																					

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.10.10 1630		12/13/10	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. 00792992 Tracking Number 869514317156		Cooler 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/14/2010
Group Number: 1225222
SDG: DE036
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-078-SA5B-SS-0.0-0.5 Soil	6163596
SL-084-SA5B-SS-0.0-0.5 Soil	6163597
SL-076-SA5B-SS-0.0-0.5 Soil	6163598
SL-071-SA5B-SS-0.0-0.5 Soil	6163599
SL-071-SA5B-SS-0.0-0.5MS Soil	6163600
SL-071-SA5B-SS-0.0-0.5MSD Soil	6163601
SL-071-SA5B-SS-0.0-0.5DUP Soil	6163602
SL-139-SA5B-SS-0.0-0.5 Soil	6163603
SL-083-SA5B-SS-0.0-0.5 Soil	6163604
SL-074-SA5B-SS-0.0-0.5 Soil	6163605
SL-301-SA5B-SS-0.0-0.5 Soil	6163606
SL-073-SA5B-SS-0.0-0.5 Soil	6163607
SL-072-SA5B-SS-0.0-0.5 Soil	6163608
DUP04-SA5B-QC-121310 Soil	6163609
SED-029-SIV-SD-0.0-0.5 Soil	6163610
SED-031-SIV-SD-0.0-0.5 Soil	6163611
SED-030-SIV-SD-0.0-0.5 Soil	6163612
SED-040-SIV-SD-0.0-0.5 Soil	6163613
SL-086-SA5B-SS-0.0-0.5 Soil	6163614
SL-092-SA5B-SS-0.0-0.5 Soil	6163615
SL-103-SA5B-SS-0.0-0.5 Soil	6163616
SL-089-SA5B-SS-0.0-0.5 Soil	6163617
SL-236-SA5B-SS-0.0-0.5 Soil	6163618

Lancaster Laboratories

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-078-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163596
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE036-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-078-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163596
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE036-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.4	U	7.4	18	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	18	10
10138	Anthracene	120-12-7	3.7	U	3.7	18	10
10138	Benzo(a)anthracene	56-55-3	9.7	J	7.4	18	10
10138	Benzo(a)pyrene	50-32-8	11	J	7.4	18	10
10138	Benzo(b)fluoranthene	205-99-2	19		7.4	18	10
10138	Benzo(g,h,i)perylene	191-24-2	16	J	7.4	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.4	U	7.4	18	10
10138	Chrysene	218-01-9	17	J	3.7	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.4	U	7.4	18	10
10138	Fluoranthene	206-44-0	16	J	7.4	18	10
10138	Fluorene	86-73-7	7.4	U	7.4	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.4	U	7.4	18	10
10138	1-Methylnaphthalene	90-12-0	7.4	U	7.4	18	10
10138	2-Methylnaphthalene	91-57-6	7.4	U	7.4	18	10
10138	Naphthalene	91-20-3	7.4	U	7.4	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.4	U	7.4	18	10
10138	Phenanthrene	85-01-8	7.4	U	7.4	18	10
10138	Pyrene	129-00-0	13	J	7.4	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9	1
10401	2,4-DB	94-82-6	7.6	U	7.6	7.6	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	180	U	180	280	1
10401	MCPP (Mecoprop)	93-65-2	410	U	410	410	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does						

Sample Description: **SL-078-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163596
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE036-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for various compounds represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.23		0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37	1
01363	p,p-DDE	72-55-9	0.083	U	0.083	0.37	1
01363	p,p-DDT	50-29-3	0.16	U	0.16	0.37	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.22	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	1.7	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	1.1	J	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.33	21.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163596
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE036-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.77	J	0.944	5.30	1
01650	Calcium	7440-70-2	3,770		6.50	21.2	1
01654	Iron	7439-89-6	15,200		4.99	21.2	1
01656	Lithium	7439-93-2	18.6		0.23	2.1	1
01657	Magnesium	7439-95-4	3,350		2.69	10.6	1
06958	Manganese	7439-96-5	210		0.0827	0.530	1
10145	Phosphorus	7723-14-0	280		0.594	10.6	1
01662	Potassium	7440-09-7	2,100		19.1	53.0	1
01667	Sodium	7440-23-5	367		39.5	106	1
07968	Strontium	7440-24-6	23.2		0.0657	0.530	1
06969	Tin	7440-31-5	2.09	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,240		0.407	1.07	1
10146	Zirconium	7440-67-7	1.26	J	0.891	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0649	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.22		0.0649	0.432	2
06126	Barium	7440-39-3	166		0.117	0.432	2
06127	Beryllium	7440-41-7	0.754		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.865		0.0389	0.108	2
06131	Chromium	7440-47-3	31.0		0.130	0.432	2
06132	Cobalt	7440-48-4	11.3		0.0216	0.108	2
06133	Copper	7440-50-8	18.9		0.0713	0.432	2
06135	Lead	7439-92-1	17.7		0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.657		0.0540	0.108	2
06139	Nickel	7440-02-0	21.0		0.108	0.432	2
06141	Selenium	7782-49-2	0.179	J	0.0432	0.432	2
06142	Silver	7440-22-4	1.65		0.0130	0.108	2
06145	Thallium	7440-28-0	0.313		0.0324	0.108	2
06148	Vanadium	7440-62-2	52.7		0.0238	0.108	2
06149	Zinc	7440-66-6	175		0.605	3.24	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163596
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE036-01

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	465	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.16	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 20:29	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 13:23	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/23/2010 21:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 01:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 17:12	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163596
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE036-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 08:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:30	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 15:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 18:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 18:02	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403A	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-084-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163597
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE036-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	360	1
04688	Fluoranthene	206-44-0	22	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163597
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE036-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	23	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.3		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.7		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	4.8		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	3.9		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.78	J	0.73	1.8	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	7.0	U	7.0	7.0	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	U	1.6	1.9	1
10401	MCPA	94-74-6	250	J	83	270	1
10401	MCPP (Mecoprop)	93-65-2	190	U	190	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: **SL-084-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163597
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE036-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for various compounds represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.072	U	0.072	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.45	21.7	1
07914	Boron	7440-42-8	3.91	J	0.964	5.42	1
01650	Calcium	7440-70-2	3,490		6.64	21.7	1
01654	Iron	7439-89-6	23,000		5.10	21.7	1
01656	Lithium	7439-93-2	27.6		0.24	2.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163597
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE036-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,950		2.75	10.8	1
06958	Manganese	7439-96-5	286		0.0845	0.542	1
10145	Phosphorus	7723-14-0	442		0.607	10.8	1
01662	Potassium	7440-09-7	3,010		19.5	54.2	1
01667	Sodium	7440-23-5	86.4	J	40.4	108	1
07968	Strontium	7440-24-6	17.1		0.0672	0.542	1
06969	Tin	7440-31-5	2.45	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,360		0.412	1.08	1
10146	Zirconium	7440-67-7	1.39	J	0.910	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0656	U	0.0656	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.67		0.0656	0.438	2
06126	Barium	7440-39-3	102		0.118	0.438	2
06127	Beryllium	7440-41-7	0.588		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.244		0.0394	0.109	2
06131	Chromium	7440-47-3	23.6		0.131	0.438	2
06132	Cobalt	7440-48-4	6.96		0.0219	0.109	2
06133	Copper	7440-50-8	12.2		0.0722	0.438	2
06135	Lead	7439-92-1	7.40		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.552		0.0547	0.109	2
06139	Nickel	7440-02-0	13.9		0.109	0.438	2
06141	Selenium	7782-49-2	0.203	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0361	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.311		0.0328	0.109	2
06148	Vanadium	7440-62-2	40.8		0.0241	0.109	2
06149	Zinc	7440-66-6	87.2		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0086	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	445		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163597
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE036-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.66	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 21:03	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 13:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/23/2010 21:41	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 02:00	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 17:30	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:03	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163597
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE036-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 16:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 18:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 18:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403A	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163598
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE036-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163598
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE036-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	18	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	3.3		0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	130	J	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-076-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163598
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE036-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.29	21.0	1
07914	Boron	7440-42-8	2.78	J	0.936	5.26	1
01650	Calcium	7440-70-2	3,280		6.45	21.0	1
01654	Iron	7439-89-6	24,100		4.96	21.0	1
01656	Lithium	7439-93-2	32.1		0.23	2.1	1
01657	Magnesium	7439-95-4	4,950		2.67	10.5	1
06958	Manganese	7439-96-5	295		0.0821	0.526	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163598
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE036-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	533		0.589	10.5	1
01662	Potassium	7440-09-7	2,330		18.9	52.6	1
01667	Sodium	7440-23-5	112		39.2	105	1
07968	Strontium	7440-24-6	14.7		0.0652	0.526	1
06969	Tin	7440-31-5	2.39	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,460		0.385	1.01	1
10146	Zirconium	7440-67-7	0.884	U	0.884	5.26	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0842	J	0.0638	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.92		0.0638	0.425	2
06126	Barium	7440-39-3	135		0.115	0.425	2
06127	Beryllium	7440-41-7	0.634		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.211		0.0383	0.106	2
06131	Chromium	7440-47-3	31.1		0.128	0.425	2
06132	Cobalt	7440-48-4	8.21		0.0213	0.106	2
06133	Copper	7440-50-8	15.5		0.0701	0.425	2
06135	Lead	7439-92-1	7.96		0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.504		0.0531	0.106	2
06139	Nickel	7440-02-0	19.7		0.106	0.425	2
06141	Selenium	7782-49-2	0.133	J	0.0425	0.425	2
06142	Silver	7440-22-4	0.0363	J	0.0128	0.106	2
06145	Thallium	7440-28-0	0.366		0.0319	0.106	2
06148	Vanadium	7440-62-2	56.0		0.0234	0.106	2
06149	Zinc	7440-66-6	108		0.595	3.19	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066	J	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	457		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

Sample Description: **SL-076-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163598
LLI Group # 1225222
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL076 SDG#: DE036-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.49	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	5.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 21:38	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 14:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/23/2010 22:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 02:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 17:49	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:44	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163598
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE036-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:45	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 16:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 18:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 18:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403A	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163599
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163599
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	18		0.36	1.8	1
10138	Anthracene	120-12-7	6.9		0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	73		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	220		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	660		7.1	18	10
10138	Benzo(g,h,i)perylene	191-24-2	190		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	91		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	450		3.6	18	10
10138	Dibenz(a,h)anthracene	53-70-3	55		0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	170		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	290		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	J	0.71	1.8	1
10138	Naphthalene	91-20-3	3.3		0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	54		0.71	1.8	1
10138	Pyrene	129-00-0	85		0.71	1.8	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	450	U	450	450	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-071-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163599
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.043	U	0.043	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.36	1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.82	U	0.82	0.82	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.18	1
01363	Dieldrin	60-57-1	0.24	U	0.24	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.086	U	0.086	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.23	U	0.23	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.069	U	0.069	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.66	U	0.66	0.66	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	4.3		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	6.7		0.35	1.8	1
10225	PCB-1254	11097-69-1	13		0.35	1.8	1
10225	PCB-1260	11096-82-5	8.5		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.26	20.9	1
07914	Boron	7440-42-8	4.15	J	0.931	5.23	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163599
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,980		6.41	20.9	1
01654	Iron	7439-89-6	20,700		4.93	20.9	1
01656	Lithium	7439-93-2	23.9		0.23	2.1	1
01657	Magnesium	7439-95-4	4,490		2.66	10.5	1
06958	Manganese	7439-96-5	248		0.0816	0.523	1
10145	Phosphorus	7723-14-0	377		0.586	10.5	1
01662	Potassium	7440-09-7	2,680		18.8	52.3	1
01667	Sodium	7440-23-5	109		39.0	105	1
07968	Strontium	7440-24-6	16.7		0.0649	0.523	1
06969	Tin	7440-31-5	2.40	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,130		0.386	1.02	1
10146	Zirconium	7440-67-7	1.01	J	0.879	5.23	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0634	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.17		0.0634	0.423	2
06126	Barium	7440-39-3	120		0.114	0.423	2
06127	Beryllium	7440-41-7	0.693		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.210		0.0380	0.106	2
06131	Chromium	7440-47-3	25.5		0.127	0.423	2
06132	Cobalt	7440-48-4	7.36		0.0211	0.106	2
06133	Copper	7440-50-8	11.9		0.0697	0.423	2
06135	Lead	7439-92-1	9.18		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.620		0.0528	0.106	2
06139	Nickel	7440-02-0	14.8		0.106	0.423	2
06141	Selenium	7782-49-2	0.0935	J	0.0423	0.423	2
06142	Silver	7440-22-4	0.241		0.0127	0.106	2
06145	Thallium	7440-28-0	0.356		0.0317	0.106	2
06148	Vanadium	7440-62-2	44.9		0.0232	0.106	2
06149	Zinc	7440-66-6	98.5		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.334		0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163599
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04BKG

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	462	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.67	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 11:34	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 11:41	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/24/2010 01:56	Linda M Hartenstine	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/23/2010 22:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 02:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 18:08	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/24/2010 08:29	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/24/2010 08:29	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163599
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708004	12/24/2010 08:29	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/24/2010 08:29	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 08:29	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/28/2010 15:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 15:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 16:53	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 18:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163600
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180	1
04688	Acenaphthylene	208-96-8	1,800		18	180	1
04688	Aniline	62-53-3	870		180	530	1
04688	Anthracene	120-12-7	1,800		18	180	1
04688	Benzidine	92-87-5	1,400	J	1,200	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,500		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180	1
04688	Benzoic acid	65-85-0	810		180	530	1
04688	Benzyl alcohol	100-51-6	1,600		180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,700		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180	1
04688	Carbazole	86-74-8	1,800		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		36	180	1
04688	4-Chloroaniline	106-47-8	1,300		71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,500		18	180	1
04688	2-Chlorophenol	95-57-8	1,700		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180	1
04688	Chrysene	218-01-9	1,800		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180	1
04688	Dibenzofuran	132-64-9	1,800		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	360	1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180	1
04688	Diethylphthalate	84-66-2	1,700		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,700		36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,800		36	180	1
04688	Dimethylphthalate	131-11-3	1,700		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100		180	530	1
04688	2,4-Dinitrophenol	51-28-5	1,400	J	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		18	360	1
04688	Fluoranthene	206-44-0	1,800		18	180	1
04688	Fluorene	86-73-7	1,700		18	180	1
04688	Hexachlorobenzene	118-74-1	1,700		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,700		71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	3,200		180	530	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180	1
04688	Isophorone	78-59-1	1,600		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163600
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,800	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180	1
04688	2-Methylphenol	95-48-7	1,700	36	180	1
04688	4-Methylphenol	106-44-5	1,600	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	18	180	1
04688	2-Nitroaniline	88-74-4	1,800	18	180	1
04688	3-Nitroaniline	99-09-2	1,700	36	180	1
04688	4-Nitroaniline	100-01-6	1,400	71	180	1
04688	Nitrobenzene	98-95-3	1,800	18	180	1
04688	2-Nitrophenol	88-75-5	1,600	18	180	1
04688	4-Nitrophenol	100-02-7	1,700	180	530	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,400	18	180	1
04688	Pentachlorophenol	87-86-5	1,500	180	530	1
04688	Phenanthrene	85-01-8	1,800	18	180	1
04688	Phenol	108-95-2	1,700	18	180	1
04688	Pyrene	129-00-0	1,800	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	36	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32	0.71	1.8	1
10138	Acenaphthylene	208-96-8	36	0.36	1.8	1
10138	Anthracene	120-12-7	34	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	42	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	56	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	110	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	48	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	39	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	40	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	39	6.4	19	1
10138	Chrysene	218-01-9	76	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	38	0.71	1.8	1
10138	Diethylphthalate	84-66-2	37	6.4	19	1
10138	Dimethylphthalate	131-11-3	36	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52	6.4	19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163600
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	53		0.71	1.8	1
10138	Fluorene	86-73-7	33		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	58		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	33		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	29		0.71	1.8	1
10138	Naphthalene	91-20-3	31		0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	35		0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	36		6.4	19	1
10138	Phenanthrene	85-01-8	39		0.71	1.8	1
10138	Pyrene	129-00-0	45		0.71	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.2 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.4		1.3	3.8	1
10401	Dalapon	75-99-0	18		4.7	9.6	1
10401	2,4-DB	94-82-6	3.8		0.66	1.8	1
10401	Dicamba	1918-00-9	1.4		0.43	1.3	1
10401	Dinoseb	88-85-7	1.9	J	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.85	1.8	1
10401	MCPA	94-74-6	1,300		81	270	1
10401	MCPP (Mecoprop)	93-65-2	710		80	270	1
10401	2,4,5-T	93-76-5	0.54		0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.72		0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.44		0.070	0.18	1
01363	Alpha BHC	319-84-6	0.38		0.036	0.18	1
01363	Beta BHC	319-85-7	0.29		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.45		0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.85		0.070	0.36	1
01363	p,p-DDE	72-55-9	0.84		0.070	0.36	1
01363	p,p-DDT	50-29-3	1.2		0.070	0.36	1
01363	Delta BHC	319-86-8	0.32		0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.30		0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.61		0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.65		0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.76		0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.73		0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.42		0.036	0.18	1
01363	Methoxychlor	72-43-5	4.7		0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163600
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	3.9		1.1	3.5	1
10225	PCB-1016	12674-11-2	21		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	16		0.35	1.8	1
10225	PCB-1254	11097-69-1	7.7		0.35	1.8	1
10225	PCB-1260	11096-82-5	28		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.11	20.3	1
07914	Boron	7440-42-8	186		0.905	5.08	1
01650	Calcium	7440-70-2	3,660		6.23	20.3	1
01654	Iron	7439-89-6	21,800		4.79	20.3	1
01656	Lithium	7439-93-2	124		0.22	2.0	1
01657	Magnesium	7439-95-4	5,030		2.58	10.2	1
06958	Manganese	7439-96-5	324		0.0793	0.508	1
10145	Phosphorus	7723-14-0	454		0.569	10.2	1
01662	Potassium	7440-09-7	3,890		18.3	50.8	1
01667	Sodium	7440-23-5	1,050		37.9	102	1
07968	Strontium	7440-24-6	113		0.0630	0.508	1
06969	Tin	7440-31-5	364		1.02	10.2	1
06970	Titanium	7440-32-6	1,600		0.402	1.06	1
10146	Zirconium	7440-67-7	98.5		0.854	5.08	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.611		0.0640	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.2		0.0640	0.427	2
06126	Barium	7440-39-3	153		0.115	0.427	2
06127	Beryllium	7440-41-7	1.94		0.0171	0.107	2
06128	Cadmium	7440-43-9	1.63		0.0384	0.107	2
06131	Chromium	7440-47-3	42.6		0.128	0.427	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163600
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	75.0	0.0213	0.107	2
06133	Copper	7440-50-8	26.6	0.0704	0.427	2
06135	Lead	7439-92-1	14.9	0.0111	0.213	2
06138	Molybdenum	7439-98-7	14.9	0.0534	0.107	2
06139	Nickel	7440-02-0	29.3	0.107	0.427	2
06141	Selenium	7782-49-2	1.97	0.0427	0.427	2
06142	Silver	7440-22-4	13.3	0.0128	0.107	2
06145	Thallium	7440-28-0	0.869	0.0320	0.107	2
06148	Vanadium	7440-62-2	66.7	0.0235	0.107	2
06149	Zinc	7440-66-6	122	0.598	3.20	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.459	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.7	0.85	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	505	9.6	32.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.6	1.1	5.3	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 12:08	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 12:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/23/2010 23:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 02:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 18:26	Lindsey K Lafferty	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163600
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/24/2010 08:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 08:41	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:18	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/28/2010 16:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 15:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 17:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 18:58	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163600
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163601
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180	1
04688	Acenaphthylene	208-96-8	1,700		18	180	1
04688	Aniline	62-53-3	660		180	530	1
04688	Anthracene	120-12-7	1,700		18	180	1
04688	Benzidine	92-87-5	1,800	J	1,200	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,500		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180	1
04688	Benzoic acid	65-85-0	590		180	530	1
04688	Benzyl alcohol	100-51-6	1,600		180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180	1
04688	Carbazole	86-74-8	1,700		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		36	180	1
04688	4-Chloroaniline	106-47-8	1,100		71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180	1
04688	2-Chlorophenol	95-57-8	1,700		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180	1
04688	Chrysene	218-01-9	1,800		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180	1
04688	Dibenzofuran	132-64-9	1,700		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		110	360	1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180	1
04688	Diethylphthalate	84-66-2	1,600		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,700		36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,800		36	180	1
04688	Dimethylphthalate	131-11-3	1,700		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	870		180	530	1
04688	2,4-Dinitrophenol	51-28-5	890	J	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,600		36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	360	1
04688	Fluoranthene	206-44-0	1,700		18	180	1
04688	Fluorene	86-73-7	1,700		18	180	1
04688	Hexachlorobenzene	118-74-1	1,700		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,700		71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	3,000		180	530	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180	1
04688	Isophorone	78-59-1	1,600		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163601
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,600	36	180	1
04688	4-Methylphenol	106-44-5	1,600	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	18	180	1
04688	2-Nitroaniline	88-74-4	1,700	18	180	1
04688	3-Nitroaniline	99-09-2	1,500	36	180	1
04688	4-Nitroaniline	100-01-6	1,100	71	180	1
04688	Nitrobenzene	98-95-3	1,700	18	180	1
04688	2-Nitrophenol	88-75-5	1,500	18	180	1
04688	4-Nitrophenol	100-02-7	1,600	180	530	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,500	18	180	1
04688	Pentachlorophenol	87-86-5	1,300	180	530	1
04688	Phenanthrene	85-01-8	1,800	18	180	1
04688	Phenol	108-95-2	1,700	18	180	1
04688	Pyrene	129-00-0	1,900	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	36	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine					
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.71	1.8	1
10138	Acenaphthylene	208-96-8	36	0.36	1.8	1
10138	Anthracene	120-12-7	34	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	41	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	63	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	140	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	53	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	43	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	42	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	39	6.4	19	1
10138	Chrysene	218-01-9	97	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	38	0.71	1.8	1
10138	Diethylphthalate	84-66-2	38	6.4	19	1
10138	Dimethylphthalate	131-11-3	36	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	53	6.4	19	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163601
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	54		0.71	1.8	1
10138	Fluorene	86-73-7	34		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	67		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	33		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	30		0.71	1.8	1
10138	Naphthalene	91-20-3	31		0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	36		0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	35		6.4	19	1
10138	Phenanthrene	85-01-8	40		0.71	1.8	1
10138	Pyrene	129-00-0	45		0.71	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.2 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.2		1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	7.2		0.66	1.8	1
10401	Dicamba	1918-00-9	1.1	J	0.43	1.3	1
10401	Dinoseb	88-85-7	2.3	J	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.85	1.8	1
10401	MCPA	94-74-6	1,500		81	270	1
10401	MCPP (Mecoprop)	93-65-2	540		80	270	1
10401	2,4,5-T	93-76-5	0.27		0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.81		0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.31		0.070	0.18	1
01363	Alpha BHC	319-84-6	0.41		0.036	0.18	1
01363	Beta BHC	319-85-7	0.42		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.44		0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.79		0.070	0.36	1
01363	p,p-DDE	72-55-9	0.68		0.070	0.36	1
01363	p,p-DDT	50-29-3	1.7		0.070	0.36	1
01363	Delta BHC	319-86-8	0.43		0.038	0.18	1
01363	Dieldrin	60-57-1	0.90		0.070	0.36	1
01363	Endosulfan I	959-98-8	0.29		0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.43		0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.81		0.070	0.36	1
01363	Endrin	72-20-8	0.79		0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.60		0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.48		0.070	0.36	1
01363	Heptachlor	76-44-8	0.41		0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.34		0.036	0.18	1
01363	Methoxychlor	72-43-5	4.3		0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163601
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	5.3		1.1	3.5	1
10225	PCB-1016	12674-11-2	20		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	23		0.35	1.8	1
10225	PCB-1254	11097-69-1	18		0.35	1.8	1
10225	PCB-1260	11096-82-5	31		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		5.37	21.3	1
07914	Boron	7440-42-8	195		0.950	5.34	1
01650	Calcium	7440-70-2	3,790		6.54	21.3	1
01654	Iron	7439-89-6	22,000		5.03	21.3	1
01656	Lithium	7439-93-2	128		0.23	2.1	1
01657	Magnesium	7439-95-4	4,960		2.71	10.7	1
06958	Manganese	7439-96-5	322		0.0832	0.534	1
10145	Phosphorus	7723-14-0	472		0.598	10.7	1
01662	Potassium	7440-09-7	3,960		19.2	53.4	1
01667	Sodium	7440-23-5	1,100		39.8	107	1
07968	Strontium	7440-24-6	118		0.0662	0.534	1
06969	Tin	7440-31-5	382		1.07	10.7	1
06970	Titanium	7440-32-6	1,510		0.406	1.07	1
10146	Zirconium	7440-67-7	103		0.896	5.34	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.343		0.0616	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.57		0.0616	0.410	2
06126	Barium	7440-39-3	145		0.111	0.410	2
06127	Beryllium	7440-41-7	1.85		0.0164	0.103	2
06128	Cadmium	7440-43-9	1.64		0.0369	0.103	2
06131	Chromium	7440-47-3	41.7		0.123	0.410	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163601
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	71.8	0.0205	0.103	2
06133	Copper	7440-50-8	27.4	0.0677	0.410	2
06135	Lead	7439-92-1	15.1	0.0107	0.205	2
06138	Molybdenum	7439-98-7	14.4	0.0513	0.103	2
06139	Nickel	7440-02-0	29.5	0.103	0.410	2
06141	Selenium	7782-49-2	1.88	0.0410	0.410	2
06142	Silver	7440-22-4	13.5	0.0123	0.103	2
06145	Thallium	7440-28-0	0.852	0.0308	0.103	2
06148	Vanadium	7440-62-2	65.5	0.0226	0.103	2
06149	Zinc	7440-66-6	131	0.575	3.08	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.467	0.0029	0.102	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 12:42	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 12:50	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/23/2010 23:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 02:58	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 18:45	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163601
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/24/2010 08:45	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 08:45	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:22	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/28/2010 16:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/28/2010 16:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163602
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.37	21.3	1
07914	Boron	7440-42-8	4.06	J	0.950	5.34	1
01650	Calcium	7440-70-2	3,160		6.54	21.3	1
01654	Iron	7439-89-6	20,900		5.03	21.3	1
01656	Lithium	7439-93-2	23.3		0.23	2.1	1
01657	Magnesium	7439-95-4	4,690		2.71	10.7	1
06958	Manganese	7439-96-5	259		0.0832	0.534	1
10145	Phosphorus	7723-14-0	392		0.598	10.7	1
01662	Potassium	7440-09-7	2,510		19.2	53.4	1
01667	Sodium	7440-23-5	114		39.8	107	1
07968	Strontium	7440-24-6	18.6		0.0662	0.534	1
06969	Tin	7440-31-5	2.34	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,300		0.402	1.06	1
10146	Zirconium	7440-67-7	1.71	J	0.896	5.34	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0616	U	0.0616	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.75		0.0616	0.410	2
06126	Barium	7440-39-3	159		0.111	0.410	2
06127	Beryllium	7440-41-7	1.07		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.271		0.0369	0.103	2
06131	Chromium	7440-47-3	27.6		0.123	0.410	2
06132	Cobalt	7440-48-4	9.14		0.0205	0.103	2
06133	Copper	7440-50-8	16.7		0.0677	0.410	2
06135	Lead	7439-92-1	13.4		0.0107	0.205	2
06138	Molybdenum	7439-98-7	0.588		0.0513	0.103	2
06139	Nickel	7440-02-0	20.2		0.103	0.410	2
06141	Selenium	7782-49-2	0.102	J	0.0410	0.410	2
06142	Silver	7440-22-4	0.388		0.0123	0.103	2
06145	Thallium	7440-28-0	0.335		0.0308	0.103	2
06148	Vanadium	7440-62-2	51.7		0.0226	0.103	2
06149	Zinc	7440-66-6	116		0.575	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.281		0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163602
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	472	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1
11626	28a Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/24/2010 08:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 08:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163602
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE036-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/28/2010 15:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 15:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 17:17	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11004243201A	01/05/2011 20:02	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163603
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE036-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163603
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE036-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.89	J	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.96	J	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21	1
10138	Di-n-butylphthalate	84-74-2	9.6	J	6.8	21	1
10138	Chrysene	218-01-9	2.7		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21	1
10138	Fluoranthene	206-44-0	2.3		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21	1
10138	Phenanthrene	85-01-8	1.1	J	0.76	1.9	1
10138	Pyrene	129-00-0	1.9		0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.71	U	0.71	1.9	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	260	U	260	280	1
10401	MCPP (Mecoprop)	93-65-2	350		85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-139-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163603
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE036-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.75	U	0.75	1.9	10
01363	Alpha BHC	319-84-6	0.39	U	0.39	1.9	10
01363	Beta BHC	319-85-7	0.68	U	0.68	1.9	10
01363	Gamma BHC - Lindane	58-89-9	0.39	U	0.39	1.9	10
01363	Chlordane	57-74-9	9.1	U	9.1	39	10
01363	p,p-DDD	72-54-8	2.6	U	2.6	3.9	10
01363	p,p-DDE	72-55-9	21	U	21	21	10
01363	p,p-DDT	50-29-3	48	U	48	48	50
01363	Delta BHC	319-86-8	0.41	U	0.41	1.9	10
01363	Dieldrin	60-57-1	14	U	14	14	10
01363	Endosulfan I	959-98-8	0.50	U	0.50	1.9	10
01363	Endosulfan II	33213-65-9	4.8	U	4.8	4.8	10
01363	Endosulfan Sulfate	1031-07-8	0.75	U	0.75	3.9	10
01363	Endrin	72-20-8	0.75	U	0.75	3.9	10
01363	Endrin Aldehyde	7421-93-4	3.8	U	3.8	3.9	10
01363	Endrin Ketone	53494-70-5	0.75	U	0.75	3.9	10
01363	Heptachlor	76-44-8	0.68	U	0.68	1.9	10
01363	Heptachlor Epoxide	1024-57-3	4.3	U	4.3	4.3	10
01363	Methoxychlor	72-43-5	3.9	U	3.9	19	10
01363	Mirex	2385-85-5	0.75	U	0.75	3.9	10
01363	Toxaphene	8001-35-2	25	U	25	75	10
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
	Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	57	U	57	190	50
10225	Aroclor 5442	12642-23-8	57	U	57	190	50
10225	Aroclor 5460	11126-42-4	57	U	57	190	50
10225	PCB-1016	12674-11-2	19	U	19	97	50
10225	PCB-1221	11104-28-2	28	U	28	97	50
10225	PCB-1232	11141-16-5	30	U	30	97	50
10225	PCB-1242	53469-21-9	28	U	28	97	50
10225	PCB-1248	12672-29-6	19	U	19	97	50
10225	PCB-1254	11097-69-1	500		19	97	50
10225	PCB-1260	11096-82-5	19	U	19	97	50
10225	PCB-1262	37324-23-5	19	U	19	97	50
10225	PCB-1268	11100-14-4	19	U	19	97	50
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163603
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE036-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		5.62	22.3	1
07914	Boron	7440-42-8	5.59		0.994	5.58	1
01650	Calcium	7440-70-2	4,280		6.84	22.3	1
01654	Iron	7439-89-6	25,200		5.26	22.3	1
01656	Lithium	7439-93-2	27.4		0.25	2.2	1
01657	Magnesium	7439-95-4	5,180		2.84	11.2	1
06958	Manganese	7439-96-5	349		0.0871	0.558	1
10145	Phosphorus	7723-14-0	331		0.625	11.2	1
01662	Potassium	7440-09-7	2,940		20.1	55.8	1
01667	Sodium	7440-23-5	266		41.6	112	1
07968	Strontium	7440-24-6	22.8		0.0692	0.558	1
06969	Tin	7440-31-5	2.72	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,430		0.433	1.14	1
10146	Zirconium	7440-67-7	3.64	J	0.938	5.58	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0657	U	0.0657	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.15		0.0657	0.438	2
06126	Barium	7440-39-3	150		0.118	0.438	2
06127	Beryllium	7440-41-7	0.869		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.200		0.0394	0.110	2
06131	Chromium	7440-47-3	30.4		0.131	0.438	2
06132	Cobalt	7440-48-4	8.20		0.0219	0.110	2
06133	Copper	7440-50-8	13.1		0.0723	0.438	2
06135	Lead	7439-92-1	9.99		0.0114	0.219	2
06138	Molybdenum	7439-98-7	1.26		0.0548	0.110	2
06139	Nickel	7440-02-0	18.1		0.110	0.438	2
06141	Selenium	7782-49-2	0.152	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0876	J	0.0131	0.110	2
06145	Thallium	7440-28-0	0.336		0.0329	0.110	2
06148	Vanadium	7440-62-2	56.0		0.0241	0.110	2
06149	Zinc	7440-66-6	77.3		0.613	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.829		0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.1		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163603
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE036-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	465	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.99	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 22:13	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/24/2010 02:29	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/23/2010 23:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 03:12	Jamie L Brillhart	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	01/07/2011 20:46	Jamie L Brillhart	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 19:03	Lindsey K Lafferty	50
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-139-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163603
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE036-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 16:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 19:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 20:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163604
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE036-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-083-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163604
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE036-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.1	J	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	2.1		0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	9.4		0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	13		0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	31		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	7.2		0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	11		0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	8.3	J	6.5	20	1
10138	Chrysene	218-01-9	16		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	2.0		0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Fluoranthene	206-44-0	28		0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.7		0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.78	J	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	14		0.72	1.8	1
10138	Pyrene	129-00-0	19		0.72	1.8	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	3.1	U	3.1	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	60	U	60	60	5
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	4.3	U	4.3	13	5
10401	2,4-DP (Dichlorprop)	120-36-5	1.2	U	1.2	1.8	1
10401	MCPA	94-74-6	350	U	350	350	1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-083-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163604
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE036-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported for various compounds represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	14	U	14	36	200
01363	Alpha BHC	319-84-6	7.4	U	7.4	36	200
01363	Beta BHC	319-85-7	13	U	13	36	200
01363	Gamma BHC - Lindane	58-89-9	12	U	12	36	200
01363	Chlordane	57-74-9	170	U	170	740	200
01363	p,p-DDD	72-54-8	14	U	14	74	200
01363	p,p-DDE	72-55-9	500	U	500	500	200
01363	p,p-DDT	50-29-3	230	U	230	230	200
01363	Delta BHC	319-86-8	7.8	U	7.8	36	200
01363	Dieldrin	60-57-1	99	U	99	99	200
01363	Endosulfan I	959-98-8	9.5	U	9.5	36	200
01363	Endosulfan II	33213-65-9	14	U	14	74	200
01363	Endosulfan Sulfate	1031-07-8	14	U	14	74	200
01363	Endrin	72-20-8	14	U	14	74	200
01363	Endrin Aldehyde	7421-93-4	25	U	25	74	200
01363	Endrin Ketone	53494-70-5	14	U	14	74	200
01363	Heptachlor	76-44-8	98	U	98	98	200
01363	Heptachlor Epoxide	1024-57-3	780	U	780	780	1000
01363	Methoxychlor	72-43-5	74	U	74	360	200
01363	Mirex	2385-85-5	14	U	14	74	200
01363	Toxaphene	8001-35-2	480	U	480	1,400	200
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
	Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1,100	U	1,100	3,600	1000
10225	Aroclor 5442	12642-23-8	1,100	U	1,100	3,600	1000
10225	Aroclor 5460	11126-42-4	1,100	U	1,100	3,600	1000
10225	PCB-1016	12674-11-2	360	U	360	1,800	1000
10225	PCB-1221	11104-28-2	540	U	540	1,800	1000
10225	PCB-1232	11141-16-5	560	U	560	1,800	1000
10225	PCB-1242	53469-21-9	540	U	540	1,800	1000
10225	PCB-1248	12672-29-6	18,000		360	1,800	1000
10225	PCB-1254	11097-69-1	2,300		360	1,800	1000
10225	PCB-1260	11096-82-5	360	U	360	1,800	1000
10225	PCB-1262	37324-23-5	360	U	360	1,800	1000
10225	PCB-1268	11100-14-4	360	U	360	1,800	1000
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163604
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE036-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.20	20.7	1
07914	Boron	7440-42-8	4.46	J	0.919	5.16	1
01650	Calcium	7440-70-2	4,660		6.33	20.7	1
01654	Iron	7439-89-6	25,600		4.87	20.7	1
01656	Lithium	7439-93-2	22.3		0.23	2.1	1
01657	Magnesium	7439-95-4	5,240		2.62	10.3	1
06958	Manganese	7439-96-5	312		0.0806	0.516	1
10145	Phosphorus	7723-14-0	691		0.578	10.3	1
01662	Potassium	7440-09-7	3,850		18.6	51.6	1
01667	Sodium	7440-23-5	95.9	J	38.5	103	1
07968	Strontium	7440-24-6	30.0		0.0640	0.516	1
06969	Tin	7440-31-5	2.24	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,320		0.412	1.08	1
10146	Zirconium	7440-67-7	1.82	J	0.868	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.249		0.0632	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.2		0.0632	0.421	2
06126	Barium	7440-39-3	172		0.114	0.421	2
06127	Beryllium	7440-41-7	0.859		0.0168	0.105	2
06128	Cadmium	7440-43-9	1.69		0.0379	0.105	2
06131	Chromium	7440-47-3	41.4		0.126	0.421	2
06132	Cobalt	7440-48-4	10.0		0.0211	0.105	2
06133	Copper	7440-50-8	25.9		0.0695	0.421	2
06135	Lead	7439-92-1	77.7		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.958		0.0527	0.105	2
06139	Nickel	7440-02-0	23.0		0.105	0.421	2
06141	Selenium	7782-49-2	0.176	J	0.0421	0.421	2
06142	Silver	7440-22-4	0.243		0.0126	0.105	2
06145	Thallium	7440-28-0	0.343		0.0316	0.105	2
06148	Vanadium	7440-62-2	66.1		0.0232	0.105	2
06149	Zinc	7440-66-6	170		1.47	7.90	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0414	J	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.91	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163604
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE036-06

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	499	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.40	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	7.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 22:47	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 15:39	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/24/2010 00:27	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/29/2010 11:06	John W Perkins	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 03:41	Jamie L Brillhart	200
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	01/07/2011 21:01	Jamie L Brillhart	1000
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 19:22	Lindsey K Lafferty	1000
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163604
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE036-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:53	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/28/2010 16:09	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 16:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 20:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 20:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163605
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE036-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	41	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163605
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE036-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.5	J	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.58	J	0.36	1.8	1
10138	Anthracene	120-12-7	3.6		0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	22		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	26		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	40		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	14		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	11		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	9.0	J	6.5	20	1
10138	Chrysene	218-01-9	40		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	3.7		0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Fluoranthene	206-44-0	36		0.73	1.8	1
10138	Fluorene	86-73-7	0.80	J	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.73	1.8	1
10138	Naphthalene	91-20-3	1.7	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	18		0.73	1.8	1
10138	Pyrene	129-00-0	32		0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.9	J	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	7.7	U	7.7	7.7	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	230	J	83	270	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1
10401	2,4,5-T	93-76-5	0.27		0.089	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-074-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163605
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE036-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.74	J	0.33	0.90	5
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.41	U	0.41	0.41	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.37	1
01363	Endosulfan I	959-98-8	0.064	U	0.064	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
	Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18	5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18	5
10225	Aroclor 5460	11126-42-4	8.9	J	5.4	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3	5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.3	5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.3	5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.3	5
10225	PCB-1248	12672-29-6	4.5	J	1.8	9.3	5
10225	PCB-1254	11097-69-1	4.8	J	1.8	9.3	5
10225	PCB-1260	11096-82-5	9.9		1.8	9.3	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3	5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163605
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE036-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.22	20.7	1
07914	Boron	7440-42-8	4.88	J	0.923	5.19	1
01650	Calcium	7440-70-2	4,110		6.36	20.7	1
01654	Iron	7439-89-6	24,100		4.89	20.7	1
01656	Lithium	7439-93-2	29.6		0.23	2.1	1
01657	Magnesium	7439-95-4	4,980		2.64	10.4	1
06958	Manganese	7439-96-5	279		0.0809	0.519	1
10145	Phosphorus	7723-14-0	390		0.581	10.4	1
01662	Potassium	7440-09-7	2,950		18.7	51.9	1
01667	Sodium	7440-23-5	108		38.7	104	1
07968	Strontium	7440-24-6	22.2		0.0643	0.519	1
06969	Tin	7440-31-5	2.34	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,350		0.402	1.06	1
10146	Zirconium	7440-67-7	1.49	J	0.871	5.19	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0647	U	0.0647	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.82		0.0647	0.431	2
06126	Barium	7440-39-3	140		0.116	0.431	2
06127	Beryllium	7440-41-7	0.723		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.305		0.0388	0.108	2
06131	Chromium	7440-47-3	29.6		0.129	0.431	2
06132	Cobalt	7440-48-4	7.36		0.0216	0.108	2
06133	Copper	7440-50-8	16.8		0.0712	0.431	2
06135	Lead	7439-92-1	12.5		0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.725		0.0539	0.108	2
06139	Nickel	7440-02-0	17.7		0.108	0.431	2
06141	Selenium	7782-49-2	0.315	J	0.0431	0.431	2
06142	Silver	7440-22-4	0.405		0.0129	0.108	2
06145	Thallium	7440-28-0	0.325		0.0324	0.108	2
06148	Vanadium	7440-62-2	49.9		0.0237	0.108	2
06149	Zinc	7440-66-6	100		0.604	3.24	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0204	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163605
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE036-07

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	467	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.75	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 23:22	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 16:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/24/2010 00:54	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 03:56	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	01/07/2011 21:14	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 19:41	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163605
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE036-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 12:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 00:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 17:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 20:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 20:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163606
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL301 SDG#: DE036-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)pyrene	50-32-8	22	J	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	29	J	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	18	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163606
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL301 SDG#: DE036-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	21	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.40	J	0.37	1.8	1
10138	Anthracene	120-12-7	1.1	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	9.2		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	4.9		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	7.4	J	6.6	20	1
10138	Chrysene	218-01-9	17		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	16		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.0		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	1.5	J	0.73	1.8	1
10138	Naphthalene	91-20-3	1.5	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	6.3		0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	13	U	13	13	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	830	U	830	2,700	1
10401	MCPP (Mecoprop)	93-65-2	500	U	500	500	1
10401	2,4,5-T	93-76-5	0.28		0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does						

Sample Description: **SL-301-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163606
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL301 SDG#: DE036-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPP and 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.36	U	0.36	0.91	5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.91	5
01363	Beta BHC	319-85-7	0.33	U	0.33	0.91	5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.91	5
01363	Chlordane	57-74-9	4.4	U	4.4	19	5
01363	p,p-DDD	72-54-8	0.36	U	0.36	1.9	5
01363	p,p-DDE	72-55-9	3.9	U	3.9	3.9	5
01363	p,p-DDT	50-29-3	4.5	U	4.5	4.5	5
01363	Delta BHC	319-86-8	0.20	U	0.20	0.91	5
01363	Dieldrin	60-57-1	1.5	U	1.5	1.9	5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.91	5
01363	Endosulfan II	33213-65-9	0.36	U	0.36	1.9	5
01363	Endosulfan Sulfate	1031-07-8	0.36	U	0.36	1.9	5
01363	Endrin	72-20-8	0.36	U	0.36	1.9	5
01363	Endrin Aldehyde	7421-93-4	1.0	U	1.0	1.9	5
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	1.9	5
01363	Heptachlor	76-44-8	0.55	U	0.55	0.91	5
01363	Heptachlor Epoxide	1024-57-3	6.5	U	6.5	6.5	5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.1	5
01363	Mirex	2385-85-5	0.36	U	0.36	1.9	5
01363	Toxaphene	8001-35-2	12	U	12	36	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	36	10
10225	Aroclor 5442	12642-23-8	11	U	11	36	10
10225	Aroclor 5460	11126-42-4	110		11	36	10
10225	PCB-1016	12674-11-2	3.6	U	3.6	19	10
10225	PCB-1221	11104-28-2	5.5	U	5.5	19	10
10225	PCB-1232	11141-16-5	5.7	U	5.7	19	10
10225	PCB-1242	53469-21-9	5.5	U	5.5	19	10
10225	PCB-1248	12672-29-6	83		3.6	19	10
10225	PCB-1254	11097-69-1	100		3.6	19	10
10225	PCB-1260	11096-82-5	3.6	U	3.6	19	10
10225	PCB-1262	37324-23-5	3.6	U	3.6	19	10
10225	PCB-1268	11100-14-4	3.6	U	3.6	19	10
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

Sample Description: **SL-301-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163606
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL301 SDG#: DE036-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.35	21.3	1
07914	Boron	7440-42-8	4.44	J	0.947	5.32	1
01650	Calcium	7440-70-2	4,310		6.53	21.3	1
01654	Iron	7439-89-6	28,700		5.01	21.3	1
01656	Lithium	7439-93-2	34.3		0.23	2.1	1
01657	Magnesium	7439-95-4	6,140		2.70	10.6	1
06958	Manganese	7439-96-5	397		0.0830	0.532	1
10145	Phosphorus	7723-14-0	495		0.596	10.6	1
01662	Potassium	7440-09-7	3,500		19.2	53.2	1
01667	Sodium	7440-23-5	133		39.7	106	1
07968	Strontium	7440-24-6	23.7		0.0660	0.532	1
06969	Tin	7440-31-5	3.24	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,500		0.405	1.06	1
10146	Zirconium	7440-67-7	1.67	J	0.894	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.79		0.0633	0.422	2
06126	Barium	7440-39-3	167		0.114	0.422	2
06127	Beryllium	7440-41-7	0.915		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.902		0.0380	0.105	2
06131	Chromium	7440-47-3	38.1		0.127	0.422	2
06132	Cobalt	7440-48-4	9.42		0.0211	0.105	2
06133	Copper	7440-50-8	24.2		0.0696	0.422	2
06135	Lead	7439-92-1	15.3		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.834		0.0527	0.105	2
06139	Nickel	7440-02-0	24.4		0.105	0.422	2
06141	Selenium	7782-49-2	0.164	J	0.0422	0.422	2
06142	Silver	7440-22-4	3.63		0.0127	0.105	2
06145	Thallium	7440-28-0	0.335		0.0316	0.105	2
06148	Vanadium	7440-62-2	62.7		0.0232	0.105	2
06149	Zinc	7440-66-6	168		1.48	7.91	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.149		0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163606
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL301 SDG#: DE036-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	461	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.48	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/13/2011 23:56	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 16:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/24/2010 01:22	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 04:10	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 19:59	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163606
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL301 SDG#: DE036-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:01	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/28/2010 16:11	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 17:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 20:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 21:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163607
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE036-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163607
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE036-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.0	U	7.0	18	10
10138	Acenaphthylene	208-96-8	3.5	U	3.5	18	10
10138	Anthracene	120-12-7	3.5	U	3.5	18	10
10138	Benzo(a)anthracene	56-55-3	13	J	7.0	18	10
10138	Benzo(a)pyrene	50-32-8	16	J	7.0	18	10
10138	Benzo(b)fluoranthene	205-99-2	36		7.0	18	10
10138	Benzo(g,h,i)perylene	191-24-2	24		7.0	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.0	U	7.0	18	10
10138	Chrysene	218-01-9	20		3.5	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.0	U	7.0	18	10
10138	Fluoranthene	206-44-0	23		7.0	18	10
10138	Fluorene	86-73-7	7.0	U	7.0	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	12	J	7.0	18	10
10138	1-Methylnaphthalene	90-12-0	7.0	U	7.0	18	10
10138	2-Methylnaphthalene	91-57-6	7.0	U	7.0	18	10
10138	Naphthalene	91-20-3	7.0	U	7.0	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.0	U	7.0	18	10
10138	Phenanthrene	85-01-8	7.0	U	7.0	18	10
10138	Pyrene	129-00-0	17	J	7.0	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	4.1		0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	640		80	260	1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does						

Sample Description: SL-073-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163607
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE036-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	1.1	U	1.1	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.36	1
01363	p,p-DDT	50-29-3	0.91	U	0.91	0.91	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.35	U	0.35	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.47	U	0.47	0.47	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	5.6		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	3.0		0.35	1.8	1
10225	PCB-1254	11097-69-1	6.8		0.35	1.8	1
10225	PCB-1260	11096-82-5	15		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.08	20.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-073-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163607
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE036-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	4.90	J	0.899	5.05	1
01650	Calcium	7440-70-2	3,190		6.19	20.2	1
01654	Iron	7439-89-6	20,400		4.76	20.2	1
01656	Lithium	7439-93-2	23.2		0.22	2.0	1
01657	Magnesium	7439-95-4	4,130		2.57	10.1	1
06958	Manganese	7439-96-5	266		0.0788	0.505	1
10145	Phosphorus	7723-14-0	318		0.566	10.1	1
01662	Potassium	7440-09-7	2,790		18.2	50.5	1
01667	Sodium	7440-23-5	87.5	J	37.7	101	1
07968	Strontium	7440-24-6	20.1		0.0626	0.505	1
06969	Tin	7440-31-5	2.03	J	1.01	10.1	1
06970	Titanium	7440-32-6	1,370		0.391	1.03	1
10146	Zirconium	7440-67-7	1.75	J	0.848	5.05	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0768	J	0.0618	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.02		0.0618	0.412	2
06126	Barium	7440-39-3	153		0.111	0.412	2
06127	Beryllium	7440-41-7	0.721		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.291		0.0371	0.103	2
06131	Chromium	7440-47-3	28.2		0.124	0.412	2
06132	Cobalt	7440-48-4	7.93		0.0206	0.103	2
06133	Copper	7440-50-8	14.5		0.0680	0.412	2
06135	Lead	7439-92-1	11.2		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.956		0.0515	0.103	2
06139	Nickel	7440-02-0	17.9		0.103	0.412	2
06141	Selenium	7782-49-2	0.138	J	0.0412	0.412	2
06142	Silver	7440-22-4	0.298		0.0124	0.103	2
06145	Thallium	7440-28-0	0.393		0.0309	0.103	2
06148	Vanadium	7440-62-2	49.7		0.0227	0.103	2
06149	Zinc	7440-66-6	105		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0132	J	0.0028	0.0993	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	J	0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-073-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163607
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE036-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	494	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.47	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 00:31	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 17:22	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/31/2010 02:29	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 04:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 20:18	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-073-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163607
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL073 SDG#: DE036-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:04	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 17:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 21:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 21:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102A	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402A	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163608
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE036-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	18	350	1
04688	Fluoranthene	206-44-0	20	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163608
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE036-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	25	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.62	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	3.3		0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.1		0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	4.3		0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.96	J	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	4.1		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.96	J	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	3.1		0.70	1.8	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	J	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	7.1	U	7.1	7.1	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	80	U	80	260	1
10401	MCPP (Mecoprop)	93-65-2	250	U	250	260	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-072-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163608
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE036-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPP and 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.38	U	0.38	0.38	1
01363	p,p-DDT	50-29-3	0.26	U	0.26	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.092	U	0.092	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.0	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.0	2
10225	Aroclor 5460	11126-42-4	27		2.1	7.0	2
10225	PCB-1016	12674-11-2	0.70	U	0.70	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.70	U	0.70	3.6	2
10225	PCB-1254	11097-69-1	6.8		0.70	3.6	2
10225	PCB-1260	11096-82-5	22		0.70	3.6	2
10225	PCB-1262	37324-23-5	0.70	U	0.70	3.6	2
10225	PCB-1268	11100-14-4	0.70	U	0.70	3.6	2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		5.06	20.1	1
07914	Boron	7440-42-8	5.12		0.895	5.03	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163608
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE036-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,240		6.16	20.1	1
01654	Iron	7439-89-6	20,200		4.74	20.1	1
01656	Lithium	7439-93-2	23.2		0.22	2.0	1
01657	Magnesium	7439-95-4	4,220		2.55	10.1	1
06958	Manganese	7439-96-5	279		0.0784	0.503	1
10145	Phosphorus	7723-14-0	403		0.563	10.1	1
01662	Potassium	7440-09-7	2,890		18.1	50.3	1
01667	Sodium	7440-23-5	98.9	J	37.5	101	1
07968	Strontium	7440-24-6	19.2		0.0624	0.503	1
06969	Tin	7440-31-5	2.20	J	1.01	10.1	1
06970	Titanium	7440-32-6	1,310		0.390	1.03	1
10146	Zirconium	7440-67-7	1.32	J	0.845	5.03	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0917	J	0.0609	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.07		0.0609	0.406	2
06126	Barium	7440-39-3	135		0.110	0.406	2
06127	Beryllium	7440-41-7	0.676		0.0162	0.102	2
06128	Cadmium	7440-43-9	0.411		0.0366	0.102	2
06131	Chromium	7440-47-3	25.1		0.122	0.406	2
06132	Cobalt	7440-48-4	7.26		0.0203	0.102	2
06133	Copper	7440-50-8	12.6		0.0670	0.406	2
06135	Lead	7439-92-1	13.0		0.0106	0.203	2
06138	Molybdenum	7439-98-7	0.694		0.0508	0.102	2
06139	Nickel	7440-02-0	14.5		0.102	0.406	2
06141	Selenium	7782-49-2	0.114	J	0.0406	0.406	2
06142	Silver	7440-22-4	3.17		0.0122	0.102	2
06145	Thallium	7440-28-0	0.281		0.0305	0.102	2
06148	Vanadium	7440-62-2	44.3		0.0223	0.102	2
06149	Zinc	7440-66-6	111		0.569	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0873	J	0.0029	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163608
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE036-10

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	434	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.72	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 01:05	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 17:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/31/2010 02:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 04:39	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 20:36	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163608
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE036-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 09:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 09:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 09:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 09:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201A	01/04/2011 18:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204A	12/29/2010 21:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 21:46	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201A	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204A	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA5B-QC-121310 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163609
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP04 SDG#: DE036-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	30	J	18	180	1
04688	Benzo(a)pyrene	50-32-8	33	J	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	60	J	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	33	J	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	24	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Chrysene	218-01-9	46	J	18	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	18	350	1
04688	Fluoranthene	206-44-0	64	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	27	J	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP04-SA5B-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163609
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP04 SDG#: DE036-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenanthrene	85-01-8	23	J	18	180	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	70	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.75	J	0.35	1.8	1
10138	Anthracene	120-12-7	1.6	J	0.35	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.4	19	1
10138	Dibenz(a,h)anthracene	53-70-3	2.6		0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	J	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.87	J	0.71	1.8	1
10138	Naphthalene	91-20-3	1.1	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	520	U	520	520	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **DUP04-SA5B-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163609
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP04 SDG#: DE036-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.36	U	0.36	0.36	1
01363	p,p-DDT	50-29-3	0.49	U	0.49	0.49	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	2.0	U	2.0	2.0	5
01363	Heptachlor Epoxide	1024-57-3	1.2	U	1.2	1.2	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
	Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.6	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	2.1		0.35	1.8	1
10225	PCB-1260	11096-82-5	3.9		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **DUP04-SA5B-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163609
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP04 SDG#: DE036-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.35	21.3	1
07914	Boron	7440-42-8	5.32		0.946	5.31	1
01650	Calcium	7440-70-2	3,040		6.51	21.3	1
01654	Iron	7439-89-6	20,900		5.01	21.3	1
01656	Lithium	7439-93-2	23.4		0.23	2.1	1
01657	Magnesium	7439-95-4	4,460		2.70	10.6	1
06958	Manganese	7439-96-5	248		0.0829	0.531	1
10145	Phosphorus	7723-14-0	394		0.595	10.6	1
01662	Potassium	7440-09-7	2,580		19.1	53.1	1
01667	Sodium	7440-23-5	102	J	39.6	106	1
07968	Strontium	7440-24-6	17.2		0.0659	0.531	1
06969	Tin	7440-31-5	2.42	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,150		0.385	1.01	1
10146	Zirconium	7440-67-7	1.10	J	0.893	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0625	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.83		0.0625	0.417	2
06126	Barium	7440-39-3	135		0.113	0.417	2
06127	Beryllium	7440-41-7	0.771		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.382		0.0375	0.104	2
06131	Chromium	7440-47-3	28.8		0.125	0.417	2
06132	Cobalt	7440-48-4	9.00		0.0208	0.104	2
06133	Copper	7440-50-8	15.1		0.0688	0.417	2
06135	Lead	7439-92-1	11.3		0.0108	0.208	2
06138	Molybdenum	7439-98-7	0.750		0.0521	0.104	2
06139	Nickel	7440-02-0	17.1		0.104	0.417	2
06141	Selenium	7782-49-2	0.152	J	0.0417	0.417	2
06142	Silver	7440-22-4	1.22		0.0125	0.104	2
06145	Thallium	7440-28-0	0.324		0.0313	0.104	2
06148	Vanadium	7440-62-2	50.3		0.0229	0.104	2
06149	Zinc	7440-66-6	128		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.227		0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP04-SA5B-QC-121310 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163609
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP04 SDG#: DE036-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	454	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.34	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 01:39	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 18:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 10:19	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 04:54	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	01/07/2011 21:29	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 20:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA5B-QC-121310 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163609
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP04 SDG#: DE036-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:11	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 19:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/29/2010 23:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 22:02	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-029-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163610
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DE036-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	31	J	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	110	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-029-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163610
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DE036-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.4	U	7.4	18	10
10138	Acenaphthylene	208-96-8	3.7	U	3.7	18	10
10138	Anthracene	120-12-7	4.4	J	3.7	18	10
10138	Benzo(a)anthracene	56-55-3	9.6	J	7.4	18	10
10138	Benzo(a)pyrene	50-32-8	9.6	J	7.4	18	10
10138	Benzo(b)fluoranthene	205-99-2	27		7.4	18	10
10138	Benzo(g,h,i)perylene	191-24-2	7.4	U	7.4	18	10
10138	Benzo(k)fluoranthene	207-08-9	7.4	U	7.4	18	10
10138	Chrysene	218-01-9	25		3.7	18	10
10138	Dibenz(a,h)anthracene	53-70-3	7.4	U	7.4	18	10
10138	Fluoranthene	206-44-0	47		7.4	18	10
10138	Fluorene	86-73-7	7.4	U	7.4	18	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.4	U	7.4	18	10
10138	1-Methylnaphthalene	90-12-0	7.4	U	7.4	18	10
10138	2-Methylnaphthalene	91-57-6	7.4	U	7.4	18	10
10138	Naphthalene	91-20-3	7.4	U	7.4	18	10
10138	N-Nitrosodimethylamine	62-75-9	7.4	U	7.4	18	10
10138	Di-n-octylphthalate	117-84-0	97	J	66	200	10
10138	Phenanthrene	85-01-8	22		7.4	18	10
10138	Pyrene	129-00-0	32		7.4	18	10
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.0	U	2.0	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	340	U	340	340	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.33		0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does						

Sample Description: **SED-029-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163610
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DE036-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPA and 2,4-D represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.37	U	0.37	0.92	5
01363	Alpha BHC	319-84-6	0.29	J	0.19	0.92	5
01363	Beta BHC	319-85-7	0.33	U	0.33	0.92	5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.92	5
01363	Chlordane	57-74-9	4.4	U	4.4	19	5
01363	p,p-DDD	72-54-8	0.74	U	0.74	1.9	5
01363	p,p-DDE	72-55-9	0.43	U	0.43	1.9	5
01363	p,p-DDT	50-29-3	8.5	U	8.5	8.5	5
01363	Delta BHC	319-86-8	0.20	U	0.20	0.92	5
01363	Dieldrin	60-57-1	1.3	U	1.3	1.9	5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.92	5
01363	Endosulfan II	33213-65-9	0.48	U	0.48	1.9	5
01363	Endosulfan Sulfate	1031-07-8	0.37	U	0.37	1.9	5
01363	Endrin	72-20-8	0.37	U	0.37	1.9	5
01363	Endrin Aldehyde	7421-93-4	0.92	U	0.92	1.9	5
01363	Endrin Ketone	53494-70-5	0.37	U	0.37	1.9	5
01363	Heptachlor	76-44-8	0.33	U	0.33	0.92	5
01363	Heptachlor Epoxide	1024-57-3	1.2	U	1.2	1.2	5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.2	5
01363	Mirex	2385-85-5	0.37	U	0.37	1.9	5
01363	Toxaphene	8001-35-2	12	U	12	37	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	37	10
10225	Aroclor 5442	12642-23-8	11	U	11	37	10
10225	Aroclor 5460	11126-42-4	170		11	37	10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19	10
10225	PCB-1221	11104-28-2	5.5	U	5.5	19	10
10225	PCB-1232	11141-16-5	5.8	U	5.8	19	10
10225	PCB-1242	53469-21-9	5.5	U	5.5	19	10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19	10
10225	PCB-1254	11097-69-1	180		3.7	19	10
10225	PCB-1260	11096-82-5	3.7	U	3.7	19	10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19	10
10225	PCB-1268	11100-14-4	3.7	U	3.7	19	10
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

*=This limit was used in the evaluation of the final result

Sample Description: **SED-029-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163610
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DE036-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,400		5.36	21.3	1
07914	Boron	7440-42-8	4.76	J	0.948	5.32	1
01650	Calcium	7440-70-2	23,900		6.53	21.3	1
01654	Iron	7439-89-6	16,900		5.02	21.3	1
01656	Lithium	7439-93-2	18.5		0.23	2.1	1
01657	Magnesium	7439-95-4	4,470		2.70	10.6	1
06958	Manganese	7439-96-5	255		0.0831	0.532	1
10145	Phosphorus	7723-14-0	403		0.596	10.6	1
01662	Potassium	7440-09-7	2,610		19.2	53.2	1
01667	Sodium	7440-23-5	86.8	J	39.7	106	1
07968	Strontium	7440-24-6	45.6		0.0660	0.532	1
06969	Tin	7440-31-5	2.05	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,020		0.409	1.08	1
10146	Zirconium	7440-67-7	0.894	U	0.894	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.191	J	0.0651	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.15		0.0651	0.434	2
06126	Barium	7440-39-3	100		0.117	0.434	2
06127	Beryllium	7440-41-7	0.463		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.902		0.0391	0.109	2
06131	Chromium	7440-47-3	23.0		0.130	0.434	2
06132	Cobalt	7440-48-4	6.94		0.0217	0.109	2
06133	Copper	7440-50-8	17.8		0.0717	0.434	2
06135	Lead	7439-92-1	50.6		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.694		0.0543	0.109	2
06139	Nickel	7440-02-0	15.1		0.109	0.434	2
06141	Selenium	7782-49-2	0.144	J	0.0434	0.434	2
06142	Silver	7440-22-4	0.147		0.0130	0.109	2
06145	Thallium	7440-28-0	0.188		0.0326	0.109	2
06148	Vanadium	7440-62-2	41.3		0.0239	0.109	2
06149	Zinc	7440-66-6	174		0.608	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0380	J	0.0031	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89	U	0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-029-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163610
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DE036-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	461	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.35	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 02:14	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 19:02	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 10:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 05:08	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 21:13	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-029-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163610
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD029 SDG#: DE036-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:15	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:16	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/28/2010 16:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 18:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/30/2010 00:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 22:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-031-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163611
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD031 SDG#: DE036-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-031-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163611
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD031 SDG#: DE036-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.43	J	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.99	J	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.85	J	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	13	J	6.7	20	1
10138	Chrysene	218-01-9	2.2		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	3.0		0.74	1.9	1
10138	Fluorene	86-73-7	2.0		0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	1.1	J	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	1.6	J	0.74	1.9	1
10138	Pyrene	129-00-0	2.3		0.74	1.9	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	16	U	16	16	1
10401	Dicamba	1918-00-9	0.69	J	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result

Sample Description: **SED-031-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163611
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD031 SDG#: DE036-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.13	U	0.13	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.051	U	0.051	0.18	1
01363	Chlordane	57-74-9	2.4	U	2.4	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	1.1	U	1.1	1.1	1
01363	p,p-DDT	50-29-3	2.3	U	2.3	2.3	1
01363	Delta BHC	319-86-8	0.10	U	0.10	0.18	1
01363	Dieldrin	60-57-1	0.28	U	0.28	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.17	U	0.17	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.18	1
01363	Methoxychlor	72-43-5	0.93	U	0.93	1.8	1
01363	Mirex	2385-85-5	0.24	U	0.24	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	18	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	18	5
10225	Aroclor 5460	11126-42-4	9.3	J	5.6	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4	5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.4	5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.4	5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.4	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.4	5
10225	PCB-1254	11097-69-1	8.4	J	1.8	9.4	5
10225	PCB-1260	11096-82-5	5.3	J	1.8	9.4	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4	5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,300		5.37	21.4	1
07914	Boron	7440-42-8	6.11		0.951	5.34	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-031-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163611
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD031 SDG#: DE036-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,000		6.55	21.4	1
01654	Iron	7439-89-6	17,000		5.03	21.4	1
01656	Lithium	7439-93-2	19.5		0.24	2.1	1
01657	Magnesium	7439-95-4	3,910		2.71	10.7	1
06958	Manganese	7439-96-5	234		0.0833	0.534	1
10145	Phosphorus	7723-14-0	374		0.598	10.7	1
01662	Potassium	7440-09-7	2,850		19.2	53.4	1
01667	Sodium	7440-23-5	54.3	J	39.9	107	1
07968	Strontium	7440-24-6	16.1		0.0662	0.534	1
06969	Tin	7440-31-5	2.03	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,200		0.406	1.07	1
10146	Zirconium	7440-67-7	0.920	J	0.897	5.34	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0660	U	0.0660	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.90		0.0660	0.440	2
06126	Barium	7440-39-3	112		0.119	0.440	2
06127	Beryllium	7440-41-7	0.546		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.255		0.0396	0.110	2
06131	Chromium	7440-47-3	25.1		0.132	0.440	2
06132	Cobalt	7440-48-4	7.18		0.0220	0.110	2
06133	Copper	7440-50-8	12.7		0.0726	0.440	2
06135	Lead	7439-92-1	20.2		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.584		0.0550	0.110	2
06139	Nickel	7440-02-0	15.1		0.110	0.440	2
06141	Selenium	7782-49-2	0.151	J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0557	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.302		0.0330	0.110	2
06148	Vanadium	7440-62-2	44.2		0.0242	0.110	2
06149	Zinc	7440-66-6	89.1		0.616	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0049	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SED-031-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163611
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD031 SDG#: DE036-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	480	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.92	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 02:48	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 19:35	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 11:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 05:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 21:32	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-031-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163611
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD031 SDG#: DE036-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 19:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/30/2010 00:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 22:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SED-030-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163612
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD030 SDG#: DE036-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	56	J	20	400	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	600	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-030-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163612
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD030 SDG#: DE036-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0	1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0	1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.80	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22	1
10138	Di-n-butylphthalate	84-74-2	7.3	J	7.2	22	1
10138	Chrysene	218-01-9	1.6	J	0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0	1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22	1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22	1
10138	Fluoranthene	206-44-0	1.4	J	0.80	2.0	1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0	1
10138	Naphthalene	91-20-3	0.83	J	0.80	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22	1
10138	Phenanthrene	85-01-8	0.89	J	0.80	2.0	1
10138	Pyrene	129-00-0	1.2	J	0.80	2.0	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	3.0	J	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	12	U	12	12	1
10401	Dicamba	1918-00-9	0.78	J	0.48	1.4	1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0	1
10401	MCPA	94-74-6	500	U	500	500	1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.090	U	0.090	0.20	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: **SED-030-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163612
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD030 SDG#: DE036-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPA and 2,4-DB represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20	1
01363	Alpha BHC	319-84-6	0.050	U	0.050	0.20	1
01363	Beta BHC	319-85-7	0.54		0.072	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.062	U	0.062	0.20	1
01363	Chlordane	57-74-9	4.7	U	4.7	4.7	1
01363	p,p-DDD	72-54-8	1.9	U	1.9	1.9	1
01363	p,p-DDE	72-55-9	1.1	U	1.1	1.1	1
01363	p,p-DDT	50-29-3	2.6	U	2.6	2.6	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.44	U	0.44	0.44	1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20	1
01363	Endosulfan II	33213-65-9	0.37	U	0.37	0.41	1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41	1
01363	Endrin	72-20-8	0.079	U	0.079	0.41	1
01363	Endrin Aldehyde	7421-93-4	0.61	U	0.61	0.61	1
01363	Endrin Ketone	53494-70-5	0.35	U	0.35	0.41	1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.28	U	0.28	0.28	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.41	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.4	U	2.4	7.9	2
10225	Aroclor 5442	12642-23-8	2.4	U	2.4	7.9	2
10225	Aroclor 5460	11126-42-4	6.7	J	2.4	7.9	2
10225	PCB-1016	12674-11-2	0.79	U	0.79	4.1	2
10225	PCB-1221	11104-28-2	1.2	U	1.2	4.1	2
10225	PCB-1232	11141-16-5	1.2	U	1.2	4.1	2
10225	PCB-1242	53469-21-9	1.2	U	1.2	4.1	2
10225	PCB-1248	12672-29-6	0.79	U	0.79	4.1	2
10225	PCB-1254	11097-69-1	6.3		0.79	4.1	2
10225	PCB-1260	11096-82-5	5.6		0.79	4.1	2
10225	PCB-1262	37324-23-5	0.79	U	0.79	4.1	2
10225	PCB-1268	11100-14-4	0.79	U	0.79	4.1	2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.78	23.0	1
07914	Boron	7440-42-8	7.59		1.02	5.74	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-030-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163612
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD030 SDG#: DE036-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,700		7.04	23.0	1
01654	Iron	7439-89-6	26,600		5.41	23.0	1
01656	Lithium	7439-93-2	28.8		0.25	2.3	1
01657	Magnesium	7439-95-4	5,770		2.92	11.5	1
06958	Manganese	7439-96-5	399		0.0896	0.574	1
10145	Phosphorus	7723-14-0	700		0.643	11.5	1
01662	Potassium	7440-09-7	5,000		20.7	57.4	1
01667	Sodium	7440-23-5	78.9	J	42.8	115	1
07968	Strontium	7440-24-6	29.1		0.0712	0.574	1
06969	Tin	7440-31-5	2.34	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,460		0.437	1.15	1
10146	Zirconium	7440-67-7	1.44	J	0.965	5.74	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0717	0.239	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.83		0.0717	0.478	2
06126	Barium	7440-39-3	202		0.129	0.478	2
06127	Beryllium	7440-41-7	0.785		0.0191	0.119	2
06128	Cadmium	7440-43-9	0.461		0.0430	0.119	2
06131	Chromium	7440-47-3	33.4		0.143	0.478	2
06132	Cobalt	7440-48-4	9.86		0.0239	0.119	2
06133	Copper	7440-50-8	18.1		0.0789	0.478	2
06135	Lead	7439-92-1	19.8		0.0124	0.239	2
06138	Molybdenum	7439-98-7	0.876		0.0597	0.119	2
06139	Nickel	7440-02-0	22.2		0.119	0.478	2
06141	Selenium	7782-49-2	0.209	J	0.0478	0.478	2
06142	Silver	7440-22-4	0.0806	J	0.0143	0.119	2
06145	Thallium	7440-28-0	0.394		0.0358	0.119	2
06148	Vanadium	7440-62-2	56.4		0.0263	0.119	2
06149	Zinc	7440-66-6	122		0.669	3.58	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0222	J	0.0032	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.96	U	0.96	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SED-030-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163612
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD030 SDG#: DE036-14

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	489	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.22	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	16.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 03:23	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 20:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 11:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 05:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 21:51	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-030-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163612
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD030 SDG#: DE036-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:53	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 20:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/30/2010 00:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 22:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-040-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163613
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DE036-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-040-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163613
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DE036-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.38	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.84	J	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.79	J	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	J	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	1.8	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Fluoranthene	206-44-0	3.2		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	1.3	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	2.4		0.73	1.8	1
10138	Pyrene	129-00-0	2.3		0.73	1.8	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	580	U	580	580	1
10401	MCPP (Mecoprop)	93-65-2	410		82	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: **SED-040-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163613
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DE036-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.075	U	0.075	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.30	U	0.30	0.30	1
01363	Chlordane	57-74-9	4.1	U	4.1	4.1	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.56	U	0.56	0.56	1
01363	p,p-DDT	50-29-3	0.69	U	0.69	0.69	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.18	U	0.18	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.37	1
01363	Endrin Ketone	53494-70-5	0.13	U	0.13	0.37	1
01363	Heptachlor	76-44-8	0.17	U	0.17	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.050	U	0.050	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	4.2		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	2.4		0.36	1.9	1
10225	PCB-1260	11096-82-5	4.3		0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

Sample Description: **SED-040-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163613
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DE036-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.38	21.4	1
07914	Boron	7440-42-8	5.27	J	0.952	5.35	1
01650	Calcium	7440-70-2	2,320		6.55	21.4	1
01654	Iron	7439-89-6	18,700		5.04	21.4	1
01656	Lithium	7439-93-2	21.6		0.24	2.1	1
01657	Magnesium	7439-95-4	4,180		2.72	10.7	1
06958	Manganese	7439-96-5	252		0.0834	0.535	1
10145	Phosphorus	7723-14-0	408		0.599	10.7	1
01662	Potassium	7440-09-7	3,390		19.2	53.5	1
01667	Sodium	7440-23-5	62.3	J	39.9	107	1
07968	Strontium	7440-24-6	13.8		0.0663	0.535	1
06969	Tin	7440-31-5	1.82	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,120		0.410	1.08	1
10146	Zirconium	7440-67-7	1.05	J	0.898	5.35	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0654	U	0.0654	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.31		0.0654	0.436	2
06126	Barium	7440-39-3	120		0.118	0.436	2
06127	Beryllium	7440-41-7	0.503		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.192		0.0393	0.109	2
06131	Chromium	7440-47-3	20.5		0.131	0.436	2
06132	Cobalt	7440-48-4	6.78		0.0218	0.109	2
06133	Copper	7440-50-8	9.21		0.0720	0.436	2
06135	Lead	7439-92-1	10.8		0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.471		0.0545	0.109	2
06139	Nickel	7440-02-0	13.0		0.109	0.436	2
06141	Selenium	7782-49-2	0.129	J	0.0436	0.436	2
06142	Silver	7440-22-4	0.0217	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.310		0.0327	0.109	2
06148	Vanadium	7440-62-2	41.7		0.0240	0.109	2
06149	Zinc	7440-66-6	77.6		0.611	3.27	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0039	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-040-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163613
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DE036-15

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	494	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.01	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 03:57	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/23/2010 20:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 12:10	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 05:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 23:23	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-040-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163613
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19

Submitted: 12/14/2010 10:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DE036-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 09:57	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/28/2010 16:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 21:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/30/2010 01:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 23:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

LLI Sample # SW 6163614
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:45

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE036-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

LLI Sample # SW 6163614
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:45

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE036-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.45	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.89	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	270	1
10401	2,4,5-T	93-76-5	1.8		0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.14	U	0.14	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

LLI Sample # SW 6163614
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:45

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE036-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPP and 2,4,5-TP represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	5.2		0.35	1.8	1
10225	PCB-1254	11097-69-1	3.6		0.35	1.8	1
10225	PCB-1260	11096-82-5	1.7	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,900		5.18	20.6	1
07914	Boron	7440-42-8	6.40		0.917	5.15	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-086-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

LLI Sample # SW 6163614
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:45

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE036-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,430		6.32	20.6	1
01654	Iron	7439-89-6	18,500		4.85	20.6	1
01656	Lithium	7439-93-2	19.5		0.23	2.1	1
01657	Magnesium	7439-95-4	3,520		2.62	10.3	1
06958	Manganese	7439-96-5	255		0.0804	0.515	1
10145	Phosphorus	7723-14-0	358		0.577	10.3	1
01662	Potassium	7440-09-7	3,280		18.6	51.5	1
01667	Sodium	7440-23-5	71.0	J	38.4	103	1
07968	Strontium	7440-24-6	20.6		0.0639	0.515	1
06969	Tin	7440-31-5	1.98	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,110		0.403	1.06	1
10146	Zirconium	7440-67-7	1.95	J	0.866	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0631	U	0.0631	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.85		0.0631	0.420	2
06126	Barium	7440-39-3	122		0.114	0.420	2
06127	Beryllium	7440-41-7	0.729		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.287		0.0378	0.105	2
06131	Chromium	7440-47-3	22.9		0.126	0.420	2
06132	Cobalt	7440-48-4	7.16		0.0210	0.105	2
06133	Copper	7440-50-8	10.5		0.0694	0.420	2
06135	Lead	7439-92-1	9.17		0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.902		0.0526	0.105	2
06139	Nickel	7440-02-0	13.9		0.105	0.420	2
06141	Selenium	7782-49-2	0.140	J	0.0420	0.420	2
06142	Silver	7440-22-4	0.0435	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.375		0.0315	0.105	2
06148	Vanadium	7440-62-2	40.9		0.0231	0.105	2
06149	Zinc	7440-66-6	81.6		0.589	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.8	J	9.6	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-086-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

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SL086 SDG#: DE036-16

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	468	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.51	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 04:31	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/24/2010 03:03	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 12:38	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 07:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/22/2010 23:42	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1

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Sample Description: SL-086-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

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SL086 SDG#: DE036-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 10:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:37	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 21:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/30/2010 01:43	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 23:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-092-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163615
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE036-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-092-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163615
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE036-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.78	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	3.1		0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	450		86	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-092-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163615
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE036-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38	1
01363	p,p-DDT	50-29-3	0.074	U	0.074	0.38	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,400		5.61	22.3	1
07914	Boron	7440-42-8	9.54		0.992	5.57	1
01650	Calcium	7440-70-2	19,800		6.83	22.3	1
01654	Iron	7439-89-6	33,300		10.5	44.6	2
01656	Lithium	7439-93-2	37.3		0.25	2.2	1
01657	Magnesium	7439-95-4	8,570		2.83	11.1	1
06958	Manganese	7439-96-5	360		0.0870	0.557	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-092-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163615
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE036-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	569		0.624	11.1	1
01662	Potassium	7440-09-7	6,160		20.1	55.7	1
01667	Sodium	7440-23-5	113		41.6	111	1
07968	Strontium	7440-24-6	51.1		0.0691	0.557	1
06969	Tin	7440-31-5	2.05	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,610		0.424	1.11	1
10146	Zirconium	7440-67-7	3.79	J	0.937	5.57	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0680	J	0.0669	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.56		0.0669	0.446	2
06126	Barium	7440-39-3	147		0.120	0.446	2
06127	Beryllium	7440-41-7	0.867		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.285		0.0401	0.111	2
06131	Chromium	7440-47-3	43.1		0.134	0.446	2
06132	Cobalt	7440-48-4	12.3		0.0223	0.111	2
06133	Copper	7440-50-8	19.4		0.0736	0.446	2
06135	Lead	7439-92-1	12.7		0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.606		0.0557	0.111	2
06139	Nickel	7440-02-0	23.3		0.111	0.446	2
06141	Selenium	7782-49-2	0.320	J	0.0446	0.446	2
06142	Silver	7440-22-4	0.0392	J	0.0134	0.111	2
06145	Thallium	7440-28-0	0.468		0.0334	0.111	2
06148	Vanadium	7440-62-2	84.7		0.0245	0.111	2
06149	Zinc	7440-66-6	111		0.624	3.34	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	459		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-092-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163615
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE036-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.12	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 05:05	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/24/2010 03:40	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 13:05	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 07:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/23/2010 00:01	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/28/2010 16:15	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 10:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-092-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163615
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE036-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 21:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/30/2010 02:07	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/05/2011 23:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163616
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE036-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163616
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE036-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.88	J	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	1.7	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	2.5		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.96	J	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.91	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	1.3	J	0.75	1.9	1
10138	Pyrene	129-00-0	1.9		0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	3.7		0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	550		86	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-103-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163616
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE036-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.11	U	0.11	0.38	1
01363	p,p-DDT	50-29-3	0.074	U	0.074	0.38	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.075	U	0.075	0.19	1
01363	Endosulfan II	33213-65-9	0.080	U	0.080	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.70	U	0.70	0.70	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19	5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6	5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.6	5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.6	5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.6	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6	5
10225	PCB-1254	11097-69-1	26		1.9	9.6	5
10225	PCB-1260	11096-82-5	1.9	U	1.9	9.6	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6	5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,400		5.50	21.9	1
07914	Boron	7440-42-8	7.62		0.973	5.47	1
01650	Calcium	7440-70-2	7,790		6.70	21.9	1
01654	Iron	7439-89-6	36,600		10.3	43.7	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163616
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE036-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	40.6		0.24	2.2	1
01657	Magnesium	7439-95-4	8,970		2.78	10.9	1
06958	Manganese	7439-96-5	371		0.0853	0.547	1
10145	Phosphorus	7723-14-0	532		0.612	10.9	1
01662	Potassium	7440-09-7	5,820		19.7	54.7	1
01667	Sodium	7440-23-5	129		40.8	109	1
07968	Strontium	7440-24-6	33.6		0.0678	0.547	1
06969	Tin	7440-31-5	2.33	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,690		0.428	1.13	1
10146	Zirconium	7440-67-7	5.02	J	0.918	5.47	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0708	J	0.0669	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.89		0.0669	0.446	2
06126	Barium	7440-39-3	163		0.120	0.446	2
06127	Beryllium	7440-41-7	0.976		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.252		0.0401	0.111	2
06131	Chromium	7440-47-3	45.8		0.134	0.446	2
06132	Cobalt	7440-48-4	14.0		0.0223	0.111	2
06133	Copper	7440-50-8	19.4		0.0736	0.446	2
06135	Lead	7439-92-1	13.6		0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.455		0.0557	0.111	2
06139	Nickel	7440-02-0	23.7		0.111	0.446	2
06141	Selenium	7782-49-2	0.273	J	0.0446	0.446	2
06142	Silver	7440-22-4	0.0321	J	0.0134	0.111	2
06145	Thallium	7440-28-0	0.538		0.0334	0.111	2
06148	Vanadium	7440-62-2	90.2		0.0245	0.111	2
06149	Zinc	7440-66-6	117		0.624	3.34	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	455		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163616
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE036-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.99	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 05:40	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/24/2010 04:13	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 13:33	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 08:02	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/23/2010 00:19	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/28/2010 17:09	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163616
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL103 SDG#: DE036-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/28/2010 16:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:46	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 21:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/30/2010 02:31	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/06/2011 00:02	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163617
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE036-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	99,000		1,800	18,000	100
04688	Di-n-butylphthalate	84-74-2	210		18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	330	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163617
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE036-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.4		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.4		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	9.2		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	7.3		0.71	1.8	1
10138	Chrysene	218-01-9	6.5		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	4.0		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	10	J	6.4	19	1
10138	Phenanthrene	85-01-8	1.8	J	0.71	1.8	1
10138	Pyrene	129-00-0	3.9		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	1.7	U	1.7	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.088	J	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163617
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE036-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.058	U	0.058	0.18	1
01363	Chlordane	57-74-9	6.6	U	6.6	6.6	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	1.1	U	1.1	1.1	1
01363	p,p-DDT	50-29-3	1.7	U	1.7	1.7	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.56	U	0.56	0.56	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	0.36	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.17	U	0.17	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.23	U	0.23	0.23	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18	5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18	5
10225	Aroclor 5460	11126-42-4	6.6	J	5.4	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1	5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.1	5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.1	5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.1	5
10225	PCB-1248	12672-29-6	30		1.8	9.1	5
10225	PCB-1254	11097-69-1	13		1.8	9.1	5
10225	PCB-1260	11096-82-5	6.6	J	1.8	9.1	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1	5
	The stated QC limits are advisory only until sufficient data points						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163617
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE036-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.23	20.8	1
07914	Boron	7440-42-8	8.79		0.926	5.20	1
01650	Calcium	7440-70-2	18,700		6.38	20.8	1
01654	Iron	7439-89-6	20,600		4.90	20.8	1
01656	Lithium	7439-93-2	21.7		0.23	2.1	1
01657	Magnesium	7439-95-4	4,940		2.64	10.4	1
06958	Manganese	7439-96-5	277		0.0812	0.520	1
10145	Phosphorus	7723-14-0	543		0.583	10.4	1
01662	Potassium	7440-09-7	3,240		18.7	52.0	1
01667	Sodium	7440-23-5	205		38.8	104	1
07968	Strontium	7440-24-6	50.5		0.0645	0.520	1
06969	Tin	7440-31-5	2.20	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,200		0.388	1.02	1
10146	Zirconium	7440-67-7	3.43	J	0.874	5.20	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.297		0.0637	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.50		0.0637	0.424	2
06126	Barium	7440-39-3	155		0.287	1.06	5
06127	Beryllium	7440-41-7	0.654		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.664		0.0382	0.106	2
06131	Chromium	7440-47-3	38.6		0.127	0.424	2
06132	Cobalt	7440-48-4	7.96		0.0212	0.106	2
06133	Copper	7440-50-8	19.4		0.0700	0.424	2
06135	Lead	7439-92-1	34.0		0.0110	0.212	2
06138	Molybdenum	7439-98-7	11.2		0.0531	0.106	2
06139	Nickel	7440-02-0	19.8		0.106	0.424	2
06141	Selenium	7782-49-2	0.123	J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0831	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.288		0.0318	0.106	2
06148	Vanadium	7440-62-2	56.6		0.0233	0.106	2
06149	Zinc	7440-66-6	150		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.155		0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163617
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE036-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	429	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.58	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 06:14	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 10:53	Joseph M Gambler	100
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/24/2010 04:46	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 14:55	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 08:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/23/2010 00:38	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163617
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE036-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	103515708004	12/24/2010 10:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	103555708003	12/22/2010 13:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103515708004	12/21/2010 01:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/28/2010 16:23	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708003	12/21/2010 13:14	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 22:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/30/2010 02:55	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/06/2011 00:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-236-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163618
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE036-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-236-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163618
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE036-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.2		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.6		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	3.7		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	J	6.4	19	1
10138	Chrysene	218-01-9	13		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	1.7	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	11	J	6.4	19	1
10138	Phenanthrene	85-01-8	1.1	J	0.71	1.8	1
10138	Pyrene	129-00-0	2.7		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	8.2		0.66	1.8	1
10401	Dicamba	1918-00-9	0.45	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	610		81	270	1
10401	MCPP (Mecoprop)	93-65-2	480	U	480	480	1
10401	2,4,5-T	93-76-5	0.33		0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

*=This limit was used in the evaluation of the final result

Sample Description: SL-236-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163618
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE036-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.36	1
01363	p,p-DDT	50-29-3	0.47	U	0.47	0.47	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	18	5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	18	5
10225	Aroclor 5460	11126-42-4	5.3	U	5.3	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.0	5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.0	5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.0	5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.0	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.0	5
10225	PCB-1254	11097-69-1	77		1.8	9.0	5
10225	PCB-1260	11096-82-5	1.8	U	1.8	9.0	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.0	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.0	5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

Sample Description: **SL-236-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163618
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE036-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.29	21.0	1
07914	Boron	7440-42-8	7.12		0.936	5.26	1
01650	Calcium	7440-70-2	12,100		6.45	21.0	1
01654	Iron	7439-89-6	24,100		4.96	21.0	1
01656	Lithium	7439-93-2	23.6		0.23	2.1	1
01657	Magnesium	7439-95-4	5,690		2.67	10.5	1
06958	Manganese	7439-96-5	301		0.0821	0.526	1
10145	Phosphorus	7723-14-0	546		0.589	10.5	1
01662	Potassium	7440-09-7	4,170		18.9	52.6	1
01667	Sodium	7440-23-5	160		39.2	105	1
07968	Strontium	7440-24-6	38.4		0.0652	0.526	1
06969	Tin	7440-31-5	2.25	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,180		0.400	1.05	1
10146	Zirconium	7440-67-7	1.19	J	0.884	5.26	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0625	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.85		0.0625	0.417	2
06126	Barium	7440-39-3	130		0.113	0.417	2
06127	Beryllium	7440-41-7	0.538		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.377		0.0375	0.104	2
06131	Chromium	7440-47-3	27.9		0.125	0.417	2
06132	Cobalt	7440-48-4	8.08		0.0208	0.104	2
06133	Copper	7440-50-8	14.7		0.0688	0.417	2
06135	Lead	7439-92-1	10.6		0.0108	0.208	2
06138	Molybdenum	7439-98-7	0.843		0.0521	0.104	2
06139	Nickel	7440-02-0	16.9		0.104	0.417	2
06141	Selenium	7782-49-2	0.160	J	0.0417	0.417	2
06142	Silver	7440-22-4	0.0265	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.295		0.0313	0.104	2
06148	Vanadium	7440-62-2	49.6		0.0229	0.104	2
06149	Zinc	7440-66-6	115		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0341	J	0.0028	0.0993	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-236-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163618
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE036-20*

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	405	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.55	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLG026	01/14/2011 06:48	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350SLH026	12/29/2010 04:30	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10350SLH026	12/17/2010 17:40	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLG026	12/17/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550017A	12/28/2010 15:23	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103500019A	12/21/2010 19:18	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510030A	12/31/2010 08:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510031A	12/29/2010 01:50	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510030A	12/20/2010 07:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510031A	12/20/2010 07:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550017A	12/22/2010 01:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103500019A	12/17/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
07914	Boron	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-236-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163618
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE036-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
01654	Iron	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
06969	Tin	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103545708005	12/21/2010 21:27	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026002D	12/26/2010 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026002C	12/26/2010 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026002B	12/26/2010 10:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026002A	12/26/2010 10:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711003	12/20/2010 06:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708004	12/19/2010 11:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103545708005	12/20/2010 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026002	12/19/2010 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711003	12/19/2010 13:41	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11003003201B	01/04/2011 22:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362204B	12/29/2010 22:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11004243201A	01/06/2011 00:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11003003201B	01/03/2011 14:26	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362204B	12/28/2010 15:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10349182102B	12/15/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10349039402B	12/15/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11004243201A	01/04/2011 20:45	Daniel S Smith	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-236-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163618
LLI Group # 1225222
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10

Submitted: 12/14/2010 10:05
Reported: 01/14/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL236 SDG#: DE036-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10350SLG026	Sample number(s): 6163596-6163601,6163603-6163618									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	42		10-107		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	32		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	99		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	92		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	93		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	97		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	94		67-125		
Benzoic acid	170 U		170.	500	ug/kg	65		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	79		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	80		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	86		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	88		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	59		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	86		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	83		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Chrysene	17	U	17.	170	ug/kg	100		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	98		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	31*		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	70		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	67		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	83		75-117		
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	96		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	95		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	97		64-119		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	98		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	91		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	92		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
Naphthalene	17	U	17.	170	ug/kg	93		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	90		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	85		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	76		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	82		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	69		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	70		35-106		
Phenanthrene	17	U	17.	170	ug/kg	99		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		

Batch number: 10350SLH026 Sample number(s): 6163596-6163601,6163603-6163618

Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	95		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	93		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	89		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	88		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	112		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		70-130		
Bis(2-Ethylhexyl)phthalate	8.2	J	6.0	18	ug/kg	121		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	88		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	92		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 103550017A	Sample number(s): 6163596-6163601,6163603-6163618									
2,4-D	1.2	U	1.2	3.6	ug/kg	107		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	57		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	100		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	73		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	6*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	90		60-141		
MCPA	76	U	76.	250	ug/kg	80		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	92		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	80		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	73		48-138		
Batch number: 103500019A	Sample number(s): 6163618									
6a Perchlorate EPA 6850	7.0		2.1	5.0	ug/kg	120*		85-115		
Batch number: 103510030A	Sample number(s): 6163596-6163601,6163603-6163618									
Aldrin	0.066	U	0.066	0.17	ug/kg	87		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	97		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	103		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	127		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	103		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	128		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	88		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	100		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	97		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	102		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	112		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	105		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	124		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	130*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103510031A	Sample number(s): 6163596-6163601,6163603-6163618									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	74*	75-125	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103511026002A	Sample number(s): 6163596-6163618								
Antimony	0.0577 U	0.0577	0.192	mg/kg	55		11-208		
Arsenic	0.0577 U	0.0577	0.385	mg/kg	95		80-120		
Beryllium	0.0154 U	0.0154	0.0962	mg/kg	98		82-118		
Cadmium	0.0346 U	0.0346	0.0962	mg/kg	92		82-118		
Chromium	0.115 U	0.115	0.385	mg/kg	105		80-120		
Cobalt	0.0192 U	0.0192	0.0962	mg/kg	99		82-118		
Copper	0.242 J	0.0635	0.385	mg/kg	104		80-120		
Lead	0.0100 U	0.0100	0.192	mg/kg	96		80-120		
Nickel	0.0962 U	0.0962	0.385	mg/kg	102		80-120		
Silver	0.0115 U	0.0115	0.0962	mg/kg	93		66-134		
Thallium	0.0288 U	0.0288	0.0962	mg/kg	98		81-119		
Vanadium	0.0212 U	0.0212	0.0962	mg/kg	90		90-110		
Zinc	0.538 U	0.538	2.88	mg/kg	97		78-122		
Batch number: 103511026002B	Sample number(s): 6163596-6163618								
Selenium	0.0385 U	0.0385	0.385	mg/kg	94		79-122		
Batch number: 103511026002C	Sample number(s): 6163596-6163618								
Molybdenum	0.0481 U	0.0481	0.0962	mg/kg	92		78-122		
Batch number: 103511026002D	Sample number(s): 6163596-6163618								
Barium	0.104 U	0.104	0.385	mg/kg	98		79-121		
Batch number: 103515708004	Sample number(s): 6163596-6163617								
Aluminum	7.29 J	5.03	20.0	mg/kg	86		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	86		78-110		
Calcium	12.8 J	6.13	20.0	mg/kg	90		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	84		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	88		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	95		81-119		
Phosphorus	1.08 J	0.560	10.0	mg/kg	98		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	89		78-110		
Sodium	37.3 U	37.3	100	mg/kg	90		87-110		
Strontium	0.0650 J	0.0620	0.500	mg/kg	97		79-121		
Tin	1.20 J	1.00	10.0	mg/kg	97		90-114		
Zirconium	0.840 U	0.840	5.00	mg/kg	99		80-120		
Batch number: 103515711003	Sample number(s): 6163596-6163618								
Mercury	0.0028 U	0.0028	0.0977	mg/kg	97		88-123		
Batch number: 103545708005	Sample number(s): 6163618								
Aluminum	5.43 J	5.03	20.0	mg/kg	106		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	94		78-110		
Calcium	12.3 J	6.13	20.0	mg/kg	103		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	105		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	104		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	1.70 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	102		78-110		
Sodium	37.3 U	37.3	100	mg/kg	102		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	106		79-121		
Tin	1.37 J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	110		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103555708003	Sample number(s): 6163596-6163617									
Titanium	0.365	U	0.365	0.962	mg/kg	99		80-120		
Batch number: 10362362204A	Sample number(s): 6163596-6163600,6163602-6163608									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 10362362204B	Sample number(s): 6163609-6163618									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11003003201A	Sample number(s): 6163596-6163600,6163602-6163608									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	93		90-110		
Batch number: 11003003201B	Sample number(s): 6163609-6163618									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	93		90-110		
Batch number: 11004243201A	Sample number(s): 6163596-6163600,6163602-6163618									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10349039402A	Sample number(s): 6163596-6163599,6163602-6163607									
22a pH by 9045C						100		95-105		
Batch number: 10349039402B	Sample number(s): 6163608-6163618									
22a pH by 9045C						100		95-105		
Batch number: 10349182102A	Sample number(s): 6163596-6163599,6163602-6163607									
Oxidation Reduction Potential						99		98-102		
Batch number: 10349182102B	Sample number(s): 6163608-6163618									
Oxidation Reduction Potential						99		98-102		
Batch number: 10349162403A	Sample number(s): 6163596-6163598									
28a Moisture Content by 160.3						100		80-120		
Batch number: 10349162403B	Sample number(s): 6163599-6163618									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10350SLG026	Sample number(s): 6163596-6163601,6163603-6163618 UNSPK: 6163599								
Acenaphthene	99	97	75-115	2	30				
Acenaphthylene	103	98	49-126	5	30				
Aniline	49	37	14-114	28	30				
Anthracene	100	98	75-115	2	30				
Benzidine	16*	20*	35-141	22	30				
Benzo(a)anthracene	101	102	65-122	0	30				
Benzo(a)pyrene	86	87	57-126	1	30				
Benzo(b)fluoranthene	90	88	59-125	2	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(g,h,i)perylene	91	90	59-127	1	30				
Benzo(k)fluoranthene	90	88	56-132	2	30				
Benzoic acid	45	33	10-173	31*	30				
Benzyl alcohol	87	88	55-123	1	30				
4-Bromophenyl-phenylether	91	93	67-129	2	30				
Butylbenzylphthalate	97	101	73-134	4	30				
Di-n-butylphthalate	94	93	67-123	1	30				
Carbazole	100	98	64-120	3	30				
4-Chloro-3-methylphenol	93	93	53-130	0	30				
4-Chloroaniline	73	61	23-95	18	30				
bis(2-Chloroethoxy)methane	100	98	54-117	3	30				
bis(2-Chloroethyl)ether	97	93	60-116	5	30				
bis(2-Chloroisopropyl)ether	90	90	55-142	0	30				
2-Chloronaphthalene	82	78	50-141	5	30				
2-Chlorophenol	93	94	73-121	1	30				
4-Chlorophenyl-phenylether	97	93	64-119	4	30				
Chrysene	104	102	62-128	1	30				
Dibenz(a,h)anthracene	91	90	65-125	0	30				
Dibenzofuran	102	96	71-112	6	30				
1,2-Dichlorobenzene	91	90	66-108	0	30				
1,3-Dichlorobenzene	90	89	63-109	2	30				
1,4-Dichlorobenzene	92	87	53-113	5	30				
3,3'-Dichlorobenzidine	72	56	25-123	25	30				
2,4-Dichlorophenol	99	97	78-117	2	30				
Diethylphthalate	94	93	66-118	2	30				
2,4-Dimethylphenol	97	95	56-130	2	30				
3,5-Dimethylphenol	103	104	70-130	0	30				
Dimethylphthalate	97	94	64-118	3	30				
4,6-Dinitro-2-methylphenol	64	49	10-148	26	30				
2,4-Dinitrophenol	40	25	20-143	47*	30				
2,4-Dinitrotoluene	94	91	57-114	3	30				
2,6-Dinitrotoluene	97	95	69-123	3	30				
1,2-Diphenylhydrazine	107	105	71-129	2	30				
bis(2-Ethylhexyl)phthalate	97	100	63-122	3	30				
Fluoranthene	101	97	59-122	4	30				
Fluorene	98	95	60-125	3	30				
Hexachlorobenzene	97	97	61-111	0	30				
Hexachlorobutadiene	96	97	62-120	1	30				
Hexachlorocyclopentadiene	89	84	10-153	6	30				
Hexachloroethane	85	86	57-109	2	30				
Indeno(1,2,3-cd)pyrene	92	90	61-126	2	30				
Isophorone	90	91	51-118	1	30				
1-Methylnaphthalene	99	96	73-112	4	30				
2-Methylnaphthalene	93	91	76-114	2	30				
2-Methylphenol	93	92	47-142	1	30				
4-Methylphenol	88	91	55-126	3	30				
Naphthalene	94	90	72-116	4	30				
2-Nitroaniline	99	97	67-125	2	30				
3-Nitroaniline	95	86	59-122	10	30				
4-Nitroaniline	78	62	52-112	23	30				
Nitrobenzene	99	97	51-114	1	30				
2-Nitrophenol	90	87	74-115	4	30				
4-Nitrophenol	94	89	39-133	5	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitroso-di-n-propylamine	80	84	60-116	5	30				
N-Nitrosodimethylamine	87	84	47-116	3	30				
N-Nitrosodiphenylamine	100	98	86-145	2	30				
Di-n-octylphthalate	80	83	56-126	4	30				
Pentachlorophenol	87	71	17-149	19	30				
Phenanthrene	101	100	65-125	2	30				
Phenol	97	95	58-126	2	30				
Pyrene	103	106	51-151	3	30				
1,2,4-Trichlorobenzene	97	94	72-115	2	30				
2,4,5-Trichlorophenol	94	93	34-139	2	30				
2,4,6-Trichlorophenol	100	95	49-140	4	30				
Batch number: 10350SLH026	Sample number(s): 6163596-6163601,6163603-6163618 UNSPK: 6163599								
Acenaphthene	90	90	63-105	1	30				
Acenaphthylene	49*	52*	55-126	2	30				
Anthracene	78	77	46-136	0	30				
Benzo(a)anthracene	-87*	-90*	39-144	3	30				
Benzo(a)pyrene	-461 (2)	-441 (2)	34-156	12	30				
Benzo(b)fluoranthene	-1536 (2)	-1472 (2)	43-155	18	30				
Benzo(g,h,i)perylene	-401 (2)	-387 (2)	33-141	9	30				
Benzo(k)fluoranthene	-148*	-137*	42-144	10	30				
Butylbenzylphthalate	112	117	73-140	5	30				
Di-n-butylphthalate	109	111	78-160	1	30				
Chrysene	-1058 (2)	-999 (2)	29-156	24	30				
Dibenz(a,h)anthracene	-49*	-47*	41-130	2	30				
Diethylphthalate	105	107	87-131	2	30				
Dimethylphthalate	100	100	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	87	88	39-167	1	30				
Fluoranthene	-326 (2)	-323 (2)	26-166	2	30				
Fluorene	94	94	45-121	1	30				
Indeno(1,2,3-cd)pyrene	-643 (2)	-617 (2)	21-143	15	30				
1-Methylnaphthalene	93	92	72-123	0	30				
2-Methylnaphthalene	81	81	28-121	1	30				
Naphthalene	79	79	61-102	0	30				
N-Nitrosodimethylamine	97	101	48-113	4	30				
Di-n-octylphthalate	101	99	40-192	2	30				
Phenanthrene	-43*	-40*	12-165	3	30				
Pyrene	-111*	-113*	15-153	1	30				
Batch number: 103550017A	Sample number(s): 6163596-6163601,6163603-6163618 UNSPK: 6163599								
2,4-D	95	70	28-161	31	35				
Dalapon	81	0*	12-86	200*	50				
2,4-DB	42	81	20-170	62*	50				
Dicamba	154*	127*	33-120	20	50				
Dinoseb	13	15	1-44	21	35				
2,4-DP (Dichlorprop)	114	111	55-141	2	50				
MCPA	140	171	31-184	20	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
MCPP (Mecoprop)	80	61	16-174	28	50				
2,4,5-T	61	30	25-132	68*	35				
2,4,5-TP	81	92	10-183	13	35				
Batch number: 103500019A	Sample number(s): 6163618 UNSPK: P163599								
6a Perchlorate EPA 6850	100	100	80-120	0	20				
Batch number: 103510030A	Sample number(s): 6163596-6163601,6163603-6163618 UNSPK: 6163599								
Aldrin	132*	94	16-126	34	50				
Alpha BHC	109	115	10-129	5	50				
Beta BHC	84	122	14-147	36	50				
Gamma BHC - Lindane	127	124	10-140	2	50				
p,p-DDD	119	110	16-163	8	50				
p,p-DDE	127	103	18-161	21	50				
p,p-DDT	168	245*	10-176	37	50				
Delta BHC	94	125	23-140	29	50				
Dieldrin	0*	127	19-154	200*	50				
Endosulfan I	85	82	16-137	4	50				
Endosulfan II	90	63	28-154	35	50				
Endosulfan Sulfate	97	121	21-160	22	50				
Endrin	0*	112	11-149	200*	50				
Endrin Aldehyde	115	90	10-148	24	35				
Endrin Ketone	110	73	22-165	41	50				
Heptachlor	0*	115	13-126	200*	50				
Heptachlor Epoxide	126	103	13-157	20	50				
Methoxychlor	125	115	32-147	8	50				
Batch number: 103510031A	Sample number(s): 6163596-6163601,6163603-6163618 UNSPK: 6163599								
PCB-1016	120	114	29-146	5	50				
PCB-1260	109	128	39-149	11	50				
Batch number: 103511026002A	Sample number(s): 6163596-6163618 UNSPK: 6163599 BKG: 6163599								
Antimony	40*	20*	75-125	56*	20	0.0956 J	0.0577 U	200* (1)	20
Arsenic	188*	166*	75-125	6	20	5.78	7.26	23*	20
Beryllium	146*	142*	75-125	5	20	0.649	1.00	43*	20
Cadmium	133*	139*	75-125	1	20	0.197	0.254	25* (1)	20
Chromium	160*	157*	75-125	2	20	23.9	25.8	8	20
Cobalt	127*	126*	75-125	4	20	6.89	8.56	22*	20
Copper	138*	151*	75-125	3	20	11.2	15.6	33*	20
Lead	179*	193*	75-125	1	20	8.60	12.5	37*	20
Nickel	136*	143*	75-125	1	20	13.9	18.9	31*	20
Silver	123	129*	75-125	1	20	0.226	0.364	47* (1)	20
Thallium	120	121	75-125	2	20	0.334	0.313	6 (1)	20
Vanadium	204 (2)	201 (2)	75-125	2	20	42.0	48.4	14	20
Zinc	222 (2)	321 (2)	75-125	7	20	92.3	109	16	20
Batch number: 103511026002B	Sample number(s): 6163596-6163618 UNSPK: 6163599 BKG: 6163599								
Selenium	88	87	75-125	5	20	0.0876 J	0.0954 J	9 (1)	20
Batch number: 103511026002C	Sample number(s): 6163596-6163618 UNSPK: 6163599 BKG: 6163599								
Molybdenum	134*	134*	75-125	4	20	0.581	0.551	5	20
Batch number: 103511026002D	Sample number(s): 6163596-6163618 UNSPK: 6163599 BKG: 6163599								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Barium	313 (2)	247 (2)	75-125	5	20	112	149	28*	20
Batch number: 103515708004	Sample number(s): 6163596-6163617 UNSPK: 6163599 BKG: 6163599								
Aluminum	1507 (2)	1477 (2)	75-125	1	20	13,500	13,700	1	20
Boron	89	89	84-115	5	20	3.89 J	3.80 J	2 (1)	20
Calcium	167 (2)	189 (2)	75-125	4	20	2,790	2,960	6	20
Iron	1042 (2)	1161 (2)	75-125	1	20	19,400	19,600	1	20
Lithium	98	97	82-114	3	20	22.4	21.8	3	20
Magnesium	265 (2)	220 (2)	75-125	1	20	4,200	4,390	4	20
Manganese	149 (2)	139 (2)	75-125	0	20	232	242	4	20
Phosphorus	76	89	75-125	4	20	353	367	4	20
Potassium	119	120	75-125	2	20	2,510	2,350	6	20
Sodium	93	93	75-125	5	20	102	107	5 (1)	20
Strontium	95	95	75-115	4	20	15.7	17.5	11	20
Tin	89	89	80-110	5	20	2.25 J	2.19 J	3 (1)	20
Zirconium	96	95	75-125	4	20	0.945 J	1.60 J	52* (1)	20
Batch number: 103515711003	Sample number(s): 6163596-6163618 UNSPK: 6163599 BKG: 6163599								
Mercury	74	78	65-135	2	20	0.313	0.263	17 (1)	20
Batch number: 103545708005	Sample number(s): 6163618 UNSPK: P162903 BKG: P162903								
Aluminum	1617 (2)	1782 (2)	75-125	1	20	17,100	16,400	4	20
Boron	94	96	84-115	0	20	6.45	6.32	2 (1)	20
Calcium	147 (2)	180 (2)	75-125	4	20	2,170	2,080	4	20
Iron	104 (2)	-167 (2)	75-125	1	20	19,000	18,100	5	20
Lithium	96	102	82-114	3	20	16.5	15.3	8	20
Magnesium	82 (2)	144 (2)	75-125	3	20	3,420	3,260	5	20
Manganese	6 (2)	25 (2)	75-125	2	20	449	413	9	20
Phosphorus	92	96	75-125	1	20	168	164	3	20
Potassium	108	133*	75-125	6	20	2,330	2,180	7	20
Sodium	102	108	75-125	4	20	110	106	4 (1)	20
Strontium	100	103	75-115	1	20	19.6	19.5	0	20
Tin	88	88	80-110	2	20	2.07 J	2.14 J	3 (1)	20
Titanium	302 (2)	338 (2)	75-125	2	20	1,210	1,190	2	20
Zirconium	95	99	75-125	2	20	2.49 J	2.90 J	15 (1)	20
Batch number: 103555708003	Sample number(s): 6163596-6163617 UNSPK: 6163599 BKG: 6163599								
Titanium	445 (2)	352 (2)	75-125	6	20	1,060	1,220	14	20
Batch number: 10362362204A	Sample number(s): 6163596-6163600,6163602-6163608 UNSPK: 6163599 BKG: 6163599								
7a Perchlorate EPA 314.0	96		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10362362204B	Sample number(s): 6163609-6163618 UNSPK: 6163618 BKG: 6163618								
7a Perchlorate EPA 314.0	96		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11003003201A	Sample number(s): 6163596-6163600,6163602-6163608 UNSPK: 6163599 BKG: 6163599								
11a Anions by 300.0 - Fluoride	78*		80-120			3.2	2.5	24* (1)	20
Batch number: 11003003201B	Sample number(s): 6163609-6163618 UNSPK: 6163610 BKG: 6163610								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
11a Anions by 300.0 - Fluoride	81		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11004243201A	Sample number(s): 6163596-6163600,6163602-6163618 UNSPK: 6163599 BKG: 6163599										
3a Cr VI by EPA 7199	93		75-125			0.20	U	0.33	J	200* (1)	20
Batch number: 10349039402A	Sample number(s): 6163596-6163599,6163602-6163607 BKG: 6163599										
22a pH by 9045C						7.67		7.60		1	1
Batch number: 10349039402B	Sample number(s): 6163608-6163618 BKG: 6163618										
22a pH by 9045C						7.55		7.56		0	1
Batch number: 10349182102A	Sample number(s): 6163596-6163599,6163602-6163607 BKG: 6163599										
Oxidation Reduction Potential						462		472		2	6
Batch number: 10349182102B	Sample number(s): 6163608-6163618 BKG: 6163618										
Oxidation Reduction Potential						405		411		2	6
Batch number: 10349162403A	Sample number(s): 6163596-6163598 BKG: 6163597										
28a Moisture Content by 160.3						8.6		8.6		0	20
Batch number: 10349162403B	Sample number(s): 6163599-6163618 BKG: 6163599										
28a Moisture Content by 160.3						6.3		6.5		2	20
28a Moisture Content by 160.3						6.3		6.5		2	20
28a Moisture Content by 160.3						6.3		6.5		2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10350SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163596	101	98	99	81	91	97
6163597	101	97	104	82	88	98
6163598	99	93	105	80	90	102
6163599	88	90	90	73	97	89
6163600	91	91	99	86	94	89
6163601	89	90	96	86	92	92
6163603	95	93	97	79	87	92
6163604	99	95	100	79	91	106
6163605	97	93	98	82	89	100
6163606	98	91	100	82	89	97
6163607	96	92	101	81	90	101
6163608	103	98	103	81	94	100
6163609	96	90	104	82	92	101
6163610	95	93	94	83	91	96
6163611	88	87	94	81	88	96
6163612	96	92	99	82	93	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Surrogate Quality Control

6163613	94	92	90	81	88	93
6163614	88	85	95	75	90	94
6163615	94	92	97	81	91	97
6163616	97	95	100	80	90	105
6163617	96	92	98	81	94	100
6163618	97	92	97	84	95	102
Blank	80	81	80	67	91	90
LCS	88	89	96	83	92	88
MS	91	91	99	86	94	89
MSD	89	90	96	86	92	92
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10350SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163596	73	58	55
6163597	96	82	84
6163598	92	82	85
6163599	92	83	91
6163600	95	84	87
6163601	98	85	87
6163603	96	81	84
6163604	90	79	76
6163605	99	87	87
6163606	97	89	86
6163607	95	81	75
6163608	87	82	86
6163609	90	80	81
6163610	83	77	78
6163611	93	83	86
6163612	87	79	84
6163613	98	88	89
6163614	95	83	85
6163615	89	80	84
6163616	89	78	83
6163617	96	84	89
6163618	87	77	96
Blank	94	85	94
LCS	99	87	98
MS	95	84	87
MSD	98	85	87
Limits:	40-130	45-130	45-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 103510030A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6163596	79	86
6163597	77	91
6163598	67	82
6163599	72	46
6163600	86	178*
6163601	75	0*
6163603	84	251*
6163604	116	0*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Surrogate Quality Control

6163605	74	95
6163606	81	99
6163607	74	73
6163608	59	57
6163609	60	68
6163610	82	89
6163611	72	56
6163612	72	83
6163613	76	78
6163614	82	83
6163615	78	82
6163616	70	79
6163617	83	80
6163618	85	94
Blank	63	106
LCS	75	100
MS	86	178*
MSD	75	0*
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103510031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6163596	105	107
6163597	106	113
6163598	97	111
6163599	99	87
6163600	122	116
6163601	114	97
6163603	90	129*
6163604	96	409*
6163605	125	131*
6163606	111	152*
6163607	102	91
6163608	123	122*
6163609	106	94
6163610	91	107
6163611	124	139*
6163612	101	107
6163613	97	101
6163614	113	125*
6163615	100	107
6163616	108	128*
6163617	109	160*
6163618	110	138*
Blank	109	117
LCS	90	101
LCSD	93	107
MS	122	116
MSD	114	97
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103550017A

	2,4-Dichlorophenylacetic

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225222
Reported: 01/14/11 at 11:09 PM

Surrogate Quality Control

	acid
6163596	97
6163597	94
6163598	118
6163599	135
6163600	145
6163601	127
6163603	106
6163604	85
6163605	110
6163606	103
6163607	97
6163608	119
6163609	130
6163610	173*
6163611	109
6163612	125
6163613	94
6163614	87
6163615	138
6163616	97
6163617	149
6163618	118
Blank	99
LCS	102
MS	145
MSD	127
Limits:	36-156

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A# 13013 1225222 GIG3596-18

CHAIN OF CUSTODY RECORD

Amended COC

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-cFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP04-SA5B-QC-121310	12.13.10	1015	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										dup
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	dup
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	5 Encore Samplers	x	x		x																				dup
EB01-SA5B-121310	12.13.10	1215	water	none	6-1 liter amber			x						x	x			x	x										rinsate
EB01-SA5B-121310	12.13.10	1215	water	none	1-500 ml poly							x	x			x									x				rinsate
EB01-SA5B-121310	12.13.10	1215	water	HNO3	1-500 ml poly						x																		rinsate
EB01-SA5B-121310	12.13.10	1215	water	HCl	6-40 mL amber VOA vials	x	x																						
SED-029-SIV-SD-0.0-0.5	12.13.10	1152	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SED-030-SIV-SD-0.0-0.5	12.13.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SED-031-SIV-SD-0.0-0.5	12.13.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SED-032-SIV-SD-0.0-0.5	12.13.10	1457	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x	x	x	x										
SED-033-SIV-SD-0.0-0.5	12.13.10	1540	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SED-040-SIV-SD-0.0-0.5	12.13.10	1019	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-001-SA5C-SB-4.0-5.0	12.13.10	1608	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
SL-001-SA5C-SB-4.5	12.13.10	1604	soil	none	5 Encore Samplers	x	x		x																				
SL-001-SA5C-SB-9.0-10.0	12.13.10	1616	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
SL-001-SA5C-SB-9.5	12.13.10	1612	soil	none	5 Encore Samplers	x	x		x																				
SL-003-SA5C-SB-4.0-5.0	12.13.10	1437	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x	x			x	x	x	x	x	x	x	x	x	
SL-003-SA5C-SB-4.5	12.13.10	1433	soil	none	5 Encore Samplers	x	x		x																				
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	8 x 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	MS sample
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	4 x 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	MS sample
SL-006-SA5C-SB-4.5MS	12.13.10	0943	soil	none	15 Encore Samplers	x	x		x																				MS sample
SL-006-SA5C-SB-9.0-10.0	12.13.10	0955	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
SL-006-SA5C-SB-9.5	12.13.10	0953	soil	none	5 Encore Samplers	x	x		x																				
SL-007-SA5B-SS-0.0-0.5	12.13.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x	x	x	x										
SL-007-SA5C-SB-4.5	12.13.10	1200	soil	none	5 Encore Samplers	x	x		x																				

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-007-SA5C-SB-4.0-5.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-007-SA5C-SB-9.0-10.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-007-SA5C-SB-9.5	12.13.10	1210	soil	none	5 Encore Samplers	X	X		X																			
SL-071-SA5B-SS-0.0-0.5MS	12.13.10	1009	soil	none	2 x 16 oz. jarS & 2 6" sleeves			X			X	X	X	X	X	X		X	X									MS sample
SL-072-SA5B-SS-0.0-0.5	12.13.10	0948	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-073-SA5B-SS-0.0-0.5	12.13.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-074-SA5B-SS-0.0-0.5	12.13.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-075-SA5B-SS-0.0-0.5	12.13.10	0903	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-076-SA5B-SS-0.0-0.5	12.13.10	0928	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-078-SA5B-SS-0.0-0.5	12.13.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-083-SA5B-SS-0.0-0.5	12.13.10	1049	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-084-SA5B-SS-0.0-0.5	12.13.10	1046	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	5 Encore Samplers	X	X		X																			
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar					X										X	X	X	X	X	X	X	X	
SL-086-SA5B-SS-0.0-0.5	12.13.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-087-SA5B-SS-0.0-0.5	12.13.10	1317	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-089-SA5B-SS-0.0-0.5	12.13.10	1410	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-091-SA5B-SS-0.0-0.5	12.13.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-092-SA5B-SS-0.0-0.5	12.13.10	1327	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-095-SA5B-SS-0.0-0.5	12.13.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-103-SA5B-SS-0.0-0.5	12.13.10	1425	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-139-SA5B-SS-0.0-0.5	12.13.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-236-SA5B-SS-0.0-0.5	12.13.10	1310	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-301-SA5B-SS-0.0-0.5	12.13.10	0900	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									

13013 1225222 61163596-618

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, labwill measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-006-SA5C-SB-9.0-10.0	12.13.10	0955	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	dup
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	8 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	MS sample
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	4 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	MS sample
EB-15-SA5B-121310	12.13.10	1215	water	none	6-1 liter amber			X						X	X			X	X										rinsate
EB-15-SA5B-121310	12.13.10	1215	water	none	1-500 ml poly							X	X			X													rinsate
EB-15-SA5B-121310	12.13.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB-15-SA5B-121310	12.13.10	1215	water	HCl	6-40 mL amber VOA vials	X	X																						rinsate
SL-006-SA5C-SB-4.5MS	12.13.10	0943	soil	none	15 Encore Samplers	X	X		X																				MS sample
SL-006-SA5C-SB-9.5	12.13.10	0953	soil	none	5 Encore Samplers	X	X		X																				
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	5 Encore Samplers	X	X		X																				dup
SL-007-SA5C-SB-9.5	12.13.10	1210	soil	none	5 Encore Samplers	X	X		X																				
SL-007-SA5C-SB-4.0-5.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-007-SA5C-SB-9.0-10.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-075-SA5B-SS-0.0-0.5	12.13.10	0903	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-007-SA5B-SS-0.0-0.5	12.13.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-007-SA5B-SS-4.5	12.13.10	1200	soil	none	5 Encore Samplers	X	X		X																				
SL-078-SA5B-SS-0.0-0.5	12.13.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-084-SA5B-SS-0.0-0.5	12.13.10	1046	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-076-SA5B-SS-0.0-0.5	12.13.10	0928	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-071-SA5B-SS-0.0-0.5MS	12.13.10	1009	soil	none	2 x 16 oz. jarS & 2 6" sleeves			X			X	X	X	X	X	X	X	X	X										MS sample
SL-139-SA5B-SS-0.0-0.5	12.13.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-083-SA5B-SS-0.0-0.5	12.13.10	1049	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-074-SA5B-SS-0.0-0.5	12.13.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-301-SA5B-SS-0.0-0.5	12.13.10	0900	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-073-SA5B-SS-0.0-0.5	12.13.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-072-SA5B-SS-0.0-0.5	12.13.10	0948	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
DUP04-SA5B-QC-121310	12.13.10	1015	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										dup
SED-029-SIV-SD-0.0-0.5	12.13.10	1152	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-031-SIV-SD-0.0-0.5	12.13.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-030-SIV-SD-0.0-0.5	12.13.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-040-SIV-SD-0.0-0.5	12.13.10	1019	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-086-SA5B-SS-0.0-0.5	12.13.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-092-SA5B-SS-0.0-0.5	12.13.10	1327	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-103-SA5B-SS-0.0-0.5	12.13.10	1425	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-089-SA5B-SS-0.0-0.5	12.13.10	1410	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-236-SA5B-SS-0.0-0.5	12.13.10	1310	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	5 Encore Samplers	X	X		X																				
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-087-SA5B-SS-0.0-0.5	12.13.10	1317	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-095-SA5B-SS-0.0-0.5	12.13.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-091-SA5B-SS-0.0-0.5	12.13.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-003-SA5C-SB-4.0-5.0	12.13.10	1437	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-003-SA5C-SB-4.5	12.13.10	1433	soil	none	5 Encore Samplers	X	X		X																				
SL-001-SA5C-SB-4.0-5.0	12.13.10	1608	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-001-SA5C-SB-9.0-10.0	12.13.10	1616	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-001-SA5C-SB-4.5	12.13.10	1604	soil	none	5 Encore Samplers	X	X		X																				
SL-001-SA5C-SB-9.5	12.13.10	1612	soil	none	5 Encore Samplers	X	X		X																				
SED-032-SIV-SD-0.0-0.5	12.13.10	1457	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-033-SIV-SD-0.0-0.5	12.13.10	1540	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Other Instructions and Notes
Received by: (Signature)	12/13/10 1630	AGAR No. 00700732992	12/14/10 1005	Laboratory: Lancaster Laboratories, Inc. 4 coolers

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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Lancaster, PA 17605-2425

Prepared for:

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/14/2010
Group Number: 1225224
SDG: DX020
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-078-SA5B-SS-0.0-0.5 Soil	6163633
SL-084-SA5B-SS-0.0-0.5 Soil	6163634
SL-076-SA5B-SS-0.0-0.5 Soil	6163635
SL-071-SA5B-SS-0.0-0.5 Soil	6163636
SL-071-SA5B-SS-0.0-0.5MS Soil	6163637
SL-071-SA5B-SS-0.0-0.5MSD Soil	6163638
SL-139-SA5B-SS-0.0-0.5 Soil	6163639
SL-083-SA5B-SS-0.0-0.5 Soil	6163640
SL-074-SA5B-SS-0.0-0.5 Soil	6163641
SL-301-SA5B-SS-0.0-0.5 Soil	6163642
SL-073-SA5B-SS-0.0-0.5 Soil	6163643
SL-072-SA5B-SS-0.0-0.5 Soil	6163644
DUP04-SA5B-QC-121310 Soil	6163645
SED-029-SIV-SD-0.0-0.5 Sediment	6163646
SED-031-SIV-SD-0.0-0.5 Sediment	6163647
SED-030-SIV-SD-0.0-0.5 Sediment	6163648
SED-040-SIV-SD-0.0-0.5 Sediment	6163649
SL-086-SA5B-SS-0.0-0.5 Soil	6163650
SL-092-SA5B-SS-0.0-0.5 Soil	6163651
SL-103-SA5B-SS-0.0-0.5 Soil	6163652
SL-089-SA5B-SS-0.0-0.5 Soil	6163653
SL-236-SA5B-SS-0.0-0.5 Soil	6163654

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163633
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS078 SDG#: DX020-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163633
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS078 SDG#: DX020-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.134	JQ	0.0423	1.10	1
11031	12378-PeCDD	40321-76-4	0.0916	U	0.0916	5.51	1
11031	123478-HxCDD	39227-28-6	2.52	JB	0.126	5.51	1
11031	123678-HxCDD	57653-85-7	9.75		0.134	5.51	1
11031	123789-HxCDD	19408-74-3	4.70	JB	0.136	5.51	1
11031	1234678-HpCDD	35822-46-9	270	B	0.318	5.51	1
11031	OCDD	3268-87-9	2,640	B	0.372	11.0	1
11031	2378-TCDF	51207-31-9	0.812	JQ	0.121	1.10	1
11031	12378-PeCDF	57117-41-6	1.82	JB	0.0585	5.51	1
11031	23478-PeCDF	57117-31-4	1.69	JB	0.0505	5.51	1
11031	123478-HxCDF	70648-26-9	1.49	JB	0.0946	5.51	1
11031	123678-HxCDF	57117-44-9	1.57	JB	0.0947	5.51	1
11031	123789-HxCDF	72918-21-9	1.05	JB	0.109	5.51	1
11031	234678-HxCDF	60851-34-5	1.89	JB	0.0987	5.51	1
11031	1234678-HpCDF	67562-39-4	26.8	B	0.140	5.51	1
11031	1234789-HpCDF	55673-89-7	2.45	JB	0.146	5.51	1
11031	OCDF	39001-02-0	60.6	B	0.113	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	45	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-078-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163633
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS078 SDG#: DX020-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-078-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SS-0.0-0.5

LLI Sample # SW 6163633
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS078 SDG#: DX020-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/04/2011 17:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403A	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-084-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163634
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS084 SDG#: DX020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163634
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DS084 SDG#: DX020-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.104	J	0.0324	1.09	1
11031	12378-PeCDD	40321-76-4	0.883	JBQ	0.0534	5.47	1
11031	123478-HxCDD	39227-28-6	1.97	JB	0.0405	5.47	1
11031	123678-HxCDD	57653-85-7	3.90	J	0.0411	5.47	1
11031	123789-HxCDD	19408-74-3	4.33	JB	0.0418	5.47	1
11031	1234678-HpCDD	35822-46-9	129	B	0.0714	5.47	1
11031	OCDD	3268-87-9	1,090	B	0.100	10.9	1
11031	2378-TCDF	51207-31-9	0.114	J	0.0345	1.09	1
11031	12378-PeCDF	57117-41-6	0.257	JB	0.0260	5.47	1
11031	23478-PeCDF	57117-31-4	0.239	JB	0.0246	5.47	1
11031	123478-HxCDF	70648-26-9	1.01	JB	0.0333	5.47	1
11031	123678-HxCDF	57117-44-9	1.28	JB	0.0306	5.47	1
11031	123789-HxCDF	72918-21-9	0.379	JB	0.0399	5.47	1
11031	234678-HxCDF	60851-34-5	1.75	JB	0.0322	5.47	1
11031	1234678-HpCDF	67562-39-4	23.4	B	0.0330	5.47	1
11031	1234789-HpCDF	55673-89-7	2.04	JB	0.0493	5.47	1
11031	OCDF	39001-02-0	55.4	B	0.0671	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-084-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163634
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS084 SDG#: DX020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-084-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5B-SS-0.0-0.5

LLI Sample # SW 6163634
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:46 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DS084 SDG#: DX020-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/04/2011 18:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403A	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-076-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163635
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS076 SDG#: DX020-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163635
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DS076 SDG#: DX020-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0232	U	0.0232	1.06	1
11031	12378-PeCDD	40321-76-4	0.293	JB	0.0348	5.31	1
11031	123478-HxCDD	39227-28-6	0.447	JBQ	0.0292	5.31	1
11031	123678-HxCDD	57653-85-7	0.984	J	0.0313	5.31	1
11031	123789-HxCDD	19408-74-3	0.899	JB	0.0309	5.31	1
11031	1234678-HpCDD	35822-46-9	19.9	B	0.0499	5.31	1
11031	OCDD	3268-87-9	157	B	0.0635	10.6	1
11031	2378-TCDF	51207-31-9	0.152	JQ	0.0387	1.06	1
11031	12378-PeCDF	57117-41-6	0.211	JB	0.0192	5.31	1
11031	23478-PeCDF	57117-31-4	0.270	JBQ	0.0179	5.31	1
11031	123478-HxCDF	70648-26-9	0.350	JB	0.0286	5.31	1
11031	123678-HxCDF	57117-44-9	0.360	JB	0.0256	5.31	1
11031	123789-HxCDF	72918-21-9	0.190	JB	0.0335	5.31	1
11031	234678-HxCDF	60851-34-5	0.373	JB	0.0275	5.31	1
11031	1234678-HpCDF	67562-39-4	3.62	JB	0.0240	5.31	1
11031	1234789-HpCDF	55673-89-7	0.468	JB	0.0356	5.31	1
11031	OCDF	39001-02-0	7.92	JB	0.0502	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-076-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163635
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS076 SDG#: DX020-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5B-SS-0.0-0.5

LLI Sample # SW 6163635
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:28 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS076 SDG#: DX020-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/04/2011 19:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403A	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163636
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163636
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.581	J	0.0464	1.07	1
11031	12378-PeCDD	40321-76-4	5.45	BQ	0.0800	5.34	1
11031	123478-HxCDD	39227-28-6	14.0	B	0.0757	5.34	1
11031	123678-HxCDD	57653-85-7	27.7		0.0791	5.34	1
11031	123789-HxCDD	19408-74-3	30.6	B	0.0783	5.34	1
11031	1234678-HpCDD	35822-46-9	869	B	0.166	5.34	1
11031	OCDD	3268-87-9	7,170	EB	0.212	10.7	1
11031	2378-TCDF	51207-31-9	0.449	J	0.0918	1.07	1
11031	12378-PeCDF	57117-41-6	1.12	JB	0.0374	5.34	1
11031	23478-PeCDF	57117-31-4	1.66	JB	0.0359	5.34	1
11031	123478-HxCDF	70648-26-9	7.50	B	0.0759	5.34	1
11031	123678-HxCDF	57117-44-9	8.83	B	0.0687	5.34	1
11031	123789-HxCDF	72918-21-9	1.09	JB	0.0850	5.34	1
11031	234678-HxCDF	60851-34-5	12.8	B	0.0725	5.34	1
11031	1234678-HpCDF	67562-39-4	169	B	0.0580	5.34	1
11031	1234789-HpCDF	55673-89-7	13.6	B	0.0819	5.34	1
11031	OCDF	39001-02-0	362	B	0.0697	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163636
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163636
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/04/2011 20:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163637
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163637
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.1		0.0419	1.07	1
11031	12378-PeCDD	40321-76-4	106	B	0.0783	5.34	1
11031	123478-HxCDD	39227-28-6	122	B	0.0622	5.34	1
11031	123678-HxCDD	57653-85-7	126		0.0624	5.34	1
11031	123789-HxCDD	19408-74-3	134	B	0.0620	5.34	1
11031	1234678-HpCDD	35822-46-9	788	B	0.127	5.34	1
11031	OCDD	3268-87-9	5,720	EB	0.158	10.7	1
11031	2378-TCDF	51207-31-9	21.8		0.0864	1.07	1
11031	12378-PeCDF	57117-41-6	109	B	0.0332	5.34	1
11031	23478-PeCDF	57117-31-4	108	B	0.0331	5.34	1
11031	123478-HxCDF	70648-26-9	117	B	0.0874	5.34	1
11031	123678-HxCDF	57117-44-9	117	B	0.0732	5.34	1
11031	123789-HxCDF	72918-21-9	117	B	0.101	5.34	1
11031	234678-HxCDF	60851-34-5	123	B	0.0836	5.34	1
11031	1234678-HpCDF	67562-39-4	234	B	0.0550	5.34	1
11031	1234789-HpCDF	55673-89-7	126	B	0.0970	5.34	1
11031	OCDF	39001-02-0	513	B	0.0705	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163637
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163637
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/04/2011 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163638
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163638
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.0		0.0502	1.07	1
11031	12378-PeCDD	40321-76-4	112	B	0.0935	5.34	1
11031	123478-HxCDD	39227-28-6	124	B	0.0721	5.34	1
11031	123678-HxCDD	57653-85-7	136		0.0723	5.34	1
11031	123789-HxCDD	19408-74-3	142	B	0.0732	5.34	1
11031	1234678-HpCDD	35822-46-9	1,100	B	0.207	5.34	1
11031	OCDD	3268-87-9	8,240	EB	0.263	10.7	1
11031	2378-TCDF	51207-31-9	20.9		0.0990	1.07	1
11031	12378-PeCDF	57117-41-6	109	B	0.0487	5.34	1
11031	23478-PeCDF	57117-31-4	108	B	0.0451	5.34	1
11031	123478-HxCDF	70648-26-9	121	B	0.108	5.34	1
11031	123678-HxCDF	57117-44-9	120	B	0.0961	5.34	1
11031	123789-HxCDF	72918-21-9	115	B	0.110	5.34	1
11031	234678-HxCDF	60851-34-5	129	B	0.102	5.34	1
11031	1234678-HpCDF	67562-39-4	305	B	0.0848	5.34	1
11031	1234789-HpCDF	55673-89-7	126	B	0.117	5.34	1
11031	OCDF	39001-02-0	669	B	0.0979	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163638
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SS-0.0-0.5

LLI Sample # SW 6163638
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:09 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS071 SDG#: DX020-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/04/2011 22:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163639
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS139 SDG#: DX020-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163639
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS139 SDG#: DX020-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0268	U	0.0268	1.14	1
11031	12378-PeCDD	40321-76-4	0.0836	U	0.0836	5.69	1
11031	123478-HxCDD	39227-28-6	0.492	JBQ	0.0391	5.69	1
11031	123678-HxCDD	57653-85-7	1.32	JQ	0.0391	5.69	1
11031	123789-HxCDD	19408-74-3	0.936	JB	0.0397	5.69	1
11031	1234678-HpCDD	35822-46-9	35.3	B	0.0632	5.69	1
11031	OCDD	3268-87-9	830	B	0.0745	11.4	1
11031	2378-TCDF	51207-31-9	0.800	JQ	0.107	1.14	1
11031	12378-PeCDF	57117-41-6	9.17	B	0.0386	5.69	1
11031	23478-PeCDF	57117-31-4	0.892	JB	0.0375	5.69	1
11031	123478-HxCDF	70648-26-9	1.16	JB	0.0543	5.69	1
11031	123678-HxCDF	57117-44-9	1.06	JB	0.0457	5.69	1
11031	123789-HxCDF	72918-21-9	0.862	JB	0.0665	5.69	1
11031	234678-HxCDF	60851-34-5	0.695	JB	0.0541	5.69	1
11031	1234678-HpCDF	67562-39-4	6.38	B	0.0530	5.69	1
11031	1234789-HpCDF	55673-89-7	0.794	JB	0.0940	5.69	1
11031	OCDF	39001-02-0	11.8	B	0.0416	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163639
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS139 SDG#: DX020-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5B-SS-0.0-0.5

LLI Sample # SW 6163639
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:04 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS139 SDG#: DX020-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/04/2011 23:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-083-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163640
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS083 SDG#: DX020-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163640
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS083 SDG#: DX020-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.506	U	0.506	1.08	1
11031	12378-PeCDD	40321-76-4	1.06	U	1.06	5.42	1
11031	123478-HxCDD	39227-28-6	3.49	JB	0.763	5.42	1
11031	123678-HxCDD	57653-85-7	10.9	Q	0.770	5.42	1
11031	123789-HxCDD	19408-74-3	8.13	B	0.824	5.42	1
11031	1234678-HpCDD	35822-46-9	307	B	0.907	5.42	1
11031	OCDD	3268-87-9	4,950	EB	1.10	10.8	1
11031	2378-TCDF	51207-31-9	26.8		3.35	1.08	1
11650	2378-TCDF-Conf	51207-31-9	31.2		0.292	1.08	1
11031	12378-PeCDF	57117-41-6	35.0	B	0.981	5.42	1
11031	23478-PeCDF	57117-31-4	274	B	0.979	5.42	1
11031	123478-HxCDF	70648-26-9	189	B	1.02	5.42	1
11031	123678-HxCDF	57117-44-9	86.7	B	0.877	5.42	1
11031	123789-HxCDF	72918-21-9	44.1	B	1.23	5.42	1
11031	234678-HxCDF	60851-34-5	47.3	B	1.00	5.42	1
11031	1234678-HpCDF	67562-39-4	139	B	0.486	5.42	1
11031	1234789-HpCDF	55673-89-7	87.1	B	0.702	5.42	1
11031	OCDF	39001-02-0	294	B	0.588	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163640
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS083 SDG#: DX020-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-083-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SS-0.0-0.5

LLI Sample # SW 6163640
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:49 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS083 SDG#: DX020-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/12/2011 19:18	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	10363001	02/05/2011 16:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-074-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163641
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS074 SDG#: DX020-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163641
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
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Chantilly VA 20151

DS074 SDG#: DX020-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.132	JQ	0.0253	1.09	1
11031	12378-PeCDD	40321-76-4	0.0593	U	0.0593	5.45	1
11031	123478-HxCDD	39227-28-6	0.904	JB	0.0477	5.45	1
11031	123678-HxCDD	57653-85-7	2.72	J	0.0479	5.45	1
11031	123789-HxCDD	19408-74-3	2.32	JB	0.0484	5.45	1
11031	1234678-HpCDD	35822-46-9	78.1	B	0.0900	5.45	1
11031	OCDD	3268-87-9	935	B	0.0931	10.9	1
11031	2378-TCDF	51207-31-9	0.333	JQ	0.0728	1.09	1
11031	12378-PeCDF	57117-41-6	0.898	JB	0.0352	5.45	1
11031	23478-PeCDF	57117-31-4	0.692	JB	0.0316	5.45	1
11031	123478-HxCDF	70648-26-9	0.791	JBQ	0.0453	5.45	1
11031	123678-HxCDF	57117-44-9	0.806	JB	0.0411	5.45	1
11031	123789-HxCDF	72918-21-9	0.465	JBQ	0.0502	5.45	1
11031	234678-HxCDF	60851-34-5	0.994	JB	0.0438	5.45	1
11031	1234678-HpCDF	67562-39-4	12.2	B	0.0590	5.45	1
11031	1234789-HpCDF	55673-89-7	1.25	JBQ	0.0777	5.45	1
11031	OCDF	39001-02-0	28.1	B	0.0778	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163641
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS074 SDG#: DX020-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-074-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SS-0.0-0.5

LLI Sample # SW 6163641
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:15 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS074 SDG#: DX020-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/05/2011 04:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-301-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163642
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS301 SDG#: DX020-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163642
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS301 SDG#: DX020-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.205	J	0.0345	1.10	1
11031	12378-PeCDD	40321-76-4	0.0763	U	0.0763	5.48	1
11031	123478-HxCDD	39227-28-6	2.77	JB	0.0402	5.48	1
11031	123678-HxCDD	57653-85-7	8.03		0.0401	5.48	1
11031	123789-HxCDD	19408-74-3	5.87	B	0.0396	5.48	1
11031	1234678-HpCDD	35822-46-9	233	B	0.111	5.48	1
11031	OCDD	3268-87-9	2,320	B	0.121	11.0	1
11031	2378-TCDF	51207-31-9	1.91		0.134	1.10	1
11650	2378-TCDF-Conf	51207-31-9	2.30		0.0768	1.10	1
11031	12378-PeCDF	57117-41-6	3.84	JB	0.0432	5.48	1
11031	23478-PeCDF	57117-31-4	3.89	JB	0.0390	5.48	1
11031	123478-HxCDF	70648-26-9	3.63	JB	0.0633	5.48	1
11031	123678-HxCDF	57117-44-9	3.15	JB	0.0560	5.48	1
11031	123789-HxCDF	72918-21-9	1.07	JBQ	0.0643	5.48	1
11031	234678-HxCDF	60851-34-5	2.78	JB	0.0596	5.48	1
11031	1234678-HpCDF	67562-39-4	36.9	B	0.0575	5.48	1
11031	1234789-HpCDF	55673-89-7	3.98	JB	0.0775	5.48	1
11031	OCDF	39001-02-0	95.2	B	0.0473	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-2378-TCDF-Conf	61	24 - 169
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163642
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS301 SDG#: DX020-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-301-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SS-0.0-0.5

LLI Sample # SW 6163642
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:00 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS301 SDG#: DX020-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/05/2011 05:16	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	10363001	02/24/2011 21:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163643
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS073 SDG#: DX020-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-073-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163643
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS073 SDG#: DX020-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0983	JQ	0.0229	1.05	1
11031	12378-PeCDD	40321-76-4	0.0593	U	0.0593	5.25	1
11031	123478-HxCDD	39227-28-6	0.707	JB	0.0391	5.25	1
11031	123678-HxCDD	57653-85-7	2.21	J	0.0393	5.25	1
11031	123789-HxCDD	19408-74-3	2.00	JB	0.0419	5.25	1
11031	1234678-HpCDD	35822-46-9	58.9	B	0.0622	5.25	1
11031	OCDD	3268-87-9	630	B	0.0836	10.5	1
11031	2378-TCDF	51207-31-9	0.676	JQ	0.0606	1.05	1
11031	12378-PeCDF	57117-41-6	1.36	JB	0.0320	5.25	1
11031	23478-PeCDF	57117-31-4	0.878	JB	0.0278	5.25	1
11031	123478-HxCDF	70648-26-9	1.56	JBQ	0.0394	5.25	1
11031	123678-HxCDF	57117-44-9	1.00	JB	0.0364	5.25	1
11031	123789-HxCDF	72918-21-9	0.708	JBQ	0.0442	5.25	1
11031	234678-HxCDF	60851-34-5	0.833	JB	0.0380	5.25	1
11031	1234678-HpCDF	67562-39-4	8.35	B	0.0509	5.25	1
11031	1234789-HpCDF	55673-89-7	0.908	JB	0.0637	5.25	1
11031	OCDF	39001-02-0	18.6	B	0.0361	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163643
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS073 SDG#: DX020-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SS-0.0-0.5

LLI Sample # SW 6163643
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:30 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS073 SDG#: DX020-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/05/2011 06:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-072-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163644
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS072 SDG#: DX020-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163644
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS072 SDG#: DX020-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243	U	0.0243	1.06	1
11031	12378-PeCDD	40321-76-4	0.860	JB	0.0479	5.28	1
11031	123478-HxCDD	39227-28-6	2.03	JB	0.0301	5.28	1
11031	123678-HxCDD	57653-85-7	5.90		0.0318	5.28	1
11031	123789-HxCDD	19408-74-3	4.17	JB	0.0328	5.28	1
11031	1234678-HpCDD	35822-46-9	182	B	0.0794	5.28	1
11031	OCDD	3268-87-9	1,880	B	0.101	10.6	1
11031	2378-TCDF	51207-31-9	0.731	J	0.0758	1.06	1
11031	12378-PeCDF	57117-41-6	1.51	JB	0.0322	5.28	1
11031	23478-PeCDF	57117-31-4	1.63	JBQ	0.0308	5.28	1
11031	123478-HxCDF	70648-26-9	2.36	JB	0.0401	5.28	1
11031	123678-HxCDF	57117-44-9	1.63	JB	0.0359	5.28	1
11031	123789-HxCDF	72918-21-9	0.786	JB	0.0461	5.28	1
11031	234678-HxCDF	60851-34-5	1.95	JB	0.0393	5.28	1
11031	1234678-HpCDF	67562-39-4	30.1	B	0.0389	5.28	1
11031	1234789-HpCDF	55673-89-7	2.95	JB	0.0561	5.28	1
11031	OCDF	39001-02-0	79.9	B	0.0373	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-072-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163644
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS072 SDG#: DX020-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-072-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SS-0.0-0.5

LLI Sample # SW 6163644
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:48 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS072 SDG#: DX020-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/05/2011 07:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP04-SA5B-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163645
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP04 SDG#: DX020-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP04-SA5B-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163645
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP04 SDG#: DX020-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.592	J	0.0427	1.06	1
11031	12378-PeCDD	40321-76-4	6.69	B	0.0868	5.31	1
11031	123478-HxCDD	39227-28-6	18.3	B	0.0637	5.31	1
11031	123678-HxCDD	57653-85-7	35.2		0.0637	5.31	1
11031	123789-HxCDD	19408-74-3	38.7	B	0.0648	5.31	1
11031	1234678-HpCDD	35822-46-9	1,140	B	0.235	5.31	1
11031	OCDD	3268-87-9	8,980	EB	0.261	10.6	1
11031	2378-TCDF	51207-31-9	0.564	J	0.0905	1.06	1
11031	12378-PeCDF	57117-41-6	1.25	JB	0.0429	5.31	1
11031	23478-PeCDF	57117-31-4	1.95	JB	0.0439	5.31	1
11031	123478-HxCDF	70648-26-9	9.88	B	0.0846	5.31	1
11031	123678-HxCDF	57117-44-9	11.0	B	0.0767	5.31	1
11031	123789-HxCDF	72918-21-9	1.42	JB	0.0953	5.31	1
11031	234678-HxCDF	60851-34-5	16.1	B	0.0744	5.31	1
11031	1234678-HpCDF	67562-39-4	223	B	0.103	5.31	1
11031	1234789-HpCDF	55673-89-7	17.8	B	0.138	5.31	1
11031	OCDF	39001-02-0	471	B	0.0996	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **DUP04-SA5B-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163645
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP04 SDG#: DX020-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP04-SA5B-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA5B-QC-121310

LLI Sample # SW 6163645
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:15 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP04 SDG#: DX020-11FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/05/2011 08:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-029-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163646
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS029 SDG#: DX020-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-029-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163646
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS029 SDG#: DX020-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.187	J	0.0386	1.11	1
11031	12378-PeCDD	40321-76-4	1.15	JBQ	0.101	5.54	1
11031	123478-HxCDD	39227-28-6	2.99	JB	0.0579	5.54	1
11031	123678-HxCDD	57653-85-7	6.88		0.0580	5.54	1
11031	123789-HxCDD	19408-74-3	4.22	JB	0.0589	5.54	1
11031	1234678-HpCDD	35822-46-9	182	B	0.127	5.54	1
11031	OCDD	3268-87-9	1,970	B	0.142	11.1	1
11031	2378-TCDF	51207-31-9	1.03	J	0.131	1.11	1
11031	12378-PeCDF	57117-41-6	10.6	B	0.0559	5.54	1
11031	23478-PeCDF	57117-31-4	4.53	JB	0.0504	5.54	1
11031	123478-HxCDF	70648-26-9	2.00	JB	0.0524	5.54	1
11031	123678-HxCDF	57117-44-9	2.44	JB	0.0489	5.54	1
11031	123789-HxCDF	72918-21-9	0.718	JB	0.0576	5.54	1
11031	234678-HxCDF	60851-34-5	3.27	JB	0.0507	5.54	1
11031	1234678-HpCDF	67562-39-4	29.4	B	0.0660	5.54	1
11031	1234789-HpCDF	55673-89-7	1.99	JB	0.0877	5.54	1
11031	OCDF	39001-02-0	106	B	0.0526	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-029-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163646
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS029 SDG#: DX020-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-029-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-029-SIV-SD-0.0-0.5

LLI Sample # SW 6163646
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:52 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS029 SDG#: DX020-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/05/2011 09:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SED-031-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163647
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS031 SDG#: DX020-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-031-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163647
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS031 SDG#: DX020-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0302	JQ	0.0237	1.11	1
11031	12378-PeCDD	40321-76-4	0.385	JB	0.0470	5.56	1
11031	123478-HxCDD	39227-28-6	0.578	JB	0.0416	5.56	1
11031	123678-HxCDD	57653-85-7	3.05	J	0.0390	5.56	1
11031	123789-HxCDD	19408-74-3	1.18	JB	0.0388	5.56	1
11031	1234678-HpCDD	35822-46-9	103	B	0.0878	5.56	1
11031	OCDD	3268-87-9	1,310	B	0.103	11.1	1
11031	2378-TCDF	51207-31-9	0.331	JQ	0.0571	1.11	1
11031	12378-PeCDF	57117-41-6	1.21	JB	0.0304	5.56	1
11031	23478-PeCDF	57117-31-4	0.812	JB	0.0292	5.56	1
11031	123478-HxCDF	70648-26-9	0.593	JB	0.0306	5.56	1
11031	123678-HxCDF	57117-44-9	0.541	JB	0.0277	5.56	1
11031	123789-HxCDF	72918-21-9	0.204	JBQ	0.0354	5.56	1
11031	234678-HxCDF	60851-34-5	0.768	JB	0.0317	5.56	1
11031	1234678-HpCDF	67562-39-4	22.8	B	0.0481	5.56	1
11031	1234789-HpCDF	55673-89-7	1.07	JB	0.0770	5.56	1
11031	OCDF	39001-02-0	99.4	B	0.0466	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-031-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163647
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS031 SDG#: DX020-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-031-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-031-SIV-SD-0.0-0.5

LLI Sample # SW 6163647
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:20 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS031 SDG#: DX020-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/05/2011 09:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SED-030-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163648
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS030 SDG#: DX020-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-030-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163648
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS030 SDG#: DX020-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.208	U	0.208	1.19	1
11031	12378-PeCDD	40321-76-4	0.254	U	0.254	5.97	1
11031	123478-HxCDD	39227-28-6	0.368	JBQ	0.274	5.97	1
11031	123678-HxCDD	57653-85-7	1.12	J	0.286	5.97	1
11031	123789-HxCDD	19408-74-3	0.836	JBQ	0.284	5.97	1
11031	1234678-HpCDD	35822-46-9	40.6	B	0.566	5.97	1
11031	OCDD	3268-87-9	381	B	0.593	11.9	1
11031	2378-TCDF	51207-31-9	0.318	U	0.318	1.19	1
11031	12378-PeCDF	57117-41-6	1.71	JB	0.170	5.97	1
11031	23478-PeCDF	57117-31-4	0.844	JB	0.172	5.97	1
11031	123478-HxCDF	70648-26-9	0.523	JBQ	0.234	5.97	1
11031	123678-HxCDF	57117-44-9	0.326	JBQ	0.184	5.97	1
11031	123789-HxCDF	72918-21-9	0.287	U	0.287	5.97	1
11031	234678-HxCDF	60851-34-5	0.674	JB	0.223	5.97	1
11031	1234678-HpCDF	67562-39-4	7.35	BQ	0.297	5.97	1
11031	1234789-HpCDF	55673-89-7	0.518	U	0.518	5.97	1
11031	OCDF	39001-02-0	21.5	B	0.446	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SED-030-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163648
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS030 SDG#: DX020-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SED-030-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-030-SIV-SD-0.0-0.5

LLI Sample # SW 6163648
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 11:13 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS030 SDG#: DX020-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/12/2011 20:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-040-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163649
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS040 SDG#: DX020-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-040-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163649
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS040 SDG#: DX020-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.151	U	0.151	1.09	1
11031	12378-PeCDD	40321-76-4	0.316	JBQ	0.149	5.45	1
11031	123478-HxCDD	39227-28-6	0.283	JBQ	0.176	5.45	1
11031	123678-HxCDD	57653-85-7	1.09	JQ	0.168	5.45	1
11031	123789-HxCDD	19408-74-3	0.493	JBQ	0.182	5.45	1
11031	1234678-HpCDD	35822-46-9	25.3	B	0.335	5.45	1
11031	OCDD	3268-87-9	312	B	0.353	10.9	1
11031	2378-TCDF	51207-31-9	0.175	U	0.175	1.09	1
11031	12378-PeCDF	57117-41-6	0.323	JBQ	0.0916	5.45	1
11031	23478-PeCDF	57117-31-4	0.336	JBQ	0.0880	5.45	1
11031	123478-HxCDF	70648-26-9	0.223	JBQ	0.154	5.45	1
11031	123678-HxCDF	57117-44-9	0.133	U	0.133	5.45	1
11031	123789-HxCDF	72918-21-9	0.163	U	0.163	5.45	1
11031	234678-HxCDF	60851-34-5	0.244	JBQ	0.147	5.45	1
11031	1234678-HpCDF	67562-39-4	4.46	JBQ	0.210	5.45	1
11031	1234789-HpCDF	55673-89-7	0.308	U	0.308	5.45	1
11031	OCDF	39001-02-0	15.5	B	0.207	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SED-040-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163649
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS040 SDG#: DX020-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-040-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-040-SIV-SD-0.0-0.5

LLI Sample # SW 6163649
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:19 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS040 SDG#: DX020-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/12/2011 21:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

LLI Sample # SW 6163650
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:45 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS086 SDG#: DX020-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-086-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

LLI Sample # SW 6163650
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:45 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS086 SDG#: DX020-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0913	U	0.0913	1.06	1
11031	12378-PeCDD	40321-76-4	0.110	JBQ	0.0971	5.31	1
11031	123478-HxCDD	39227-28-6	0.109	U	0.109	5.31	1
11031	123678-HxCDD	57653-85-7	0.219	JQ	0.110	5.31	1
11031	123789-HxCDD	19408-74-3	0.260	JBQ	0.118	5.31	1
11031	1234678-HpCDD	35822-46-9	8.11	BQ	0.286	5.31	1
11031	OCDD	3268-87-9	84.9	B	0.160	10.6	1
11031	2378-TCDF	51207-31-9	0.111	U	0.111	1.06	1
11031	12378-PeCDF	57117-41-6	0.0998	JBQ	0.0562	5.31	1
11031	23478-PeCDF	57117-31-4	0.0780	JB	0.0525	5.31	1
11031	123478-HxCDF	70648-26-9	0.0851	U	0.0851	5.31	1
11031	123678-HxCDF	57117-44-9	0.0913	JBQ	0.0763	5.31	1
11031	123789-HxCDF	72918-21-9	0.0982	U	0.0982	5.31	1
11031	234678-HxCDF	60851-34-5	0.152	JBQ	0.0834	5.31	1
11031	1234678-HpCDF	67562-39-4	1.22	JB	0.141	5.31	1
11031	1234789-HpCDF	55673-89-7	0.212	U	0.212	5.31	1
11031	OCDF	39001-02-0	3.30	JB	0.177	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	109	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	100	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

LLI Sample # SW 6163650
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:45 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS086 SDG#: DX020-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SS-0.0-0.5

LLI Sample # SW 6163650
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:45 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS086 SDG#: DX020-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/12/2011 22:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-092-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163651
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS092 SDG#: DX020-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-092-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163651
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DS092 SDG#: DX020-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.114	U	0.114	1.13	1
11031	12378-PeCDD	40321-76-4	0.0941	U	0.0941	5.63	1
11031	123478-HxCDD	39227-28-6	0.102	U	0.102	5.63	1
11031	123678-HxCDD	57653-85-7	0.106	U	0.106	5.63	1
11031	123789-HxCDD	19408-74-3	0.170	JBQ	0.100	5.63	1
11031	1234678-HpCDD	35822-46-9	3.82	JB	0.192	5.63	1
11031	OCDD	3268-87-9	32.1	B	0.184	11.3	1
11031	2378-TCDF	51207-31-9	0.117	U	0.117	1.13	1
11031	12378-PeCDF	57117-41-6	0.0672	U	0.0672	5.63	1
11031	23478-PeCDF	57117-31-4	0.0661	U	0.0661	5.63	1
11031	123478-HxCDF	70648-26-9	0.0821	U	0.0821	5.63	1
11031	123678-HxCDF	57117-44-9	0.0722	JBQ	0.0686	5.63	1
11031	123789-HxCDF	72918-21-9	0.0902	U	0.0902	5.63	1
11031	234678-HxCDF	60851-34-5	0.0894	JBQ	0.0796	5.63	1
11031	1234678-HpCDF	67562-39-4	0.724	JBQ	0.0910	5.63	1
11031	1234789-HpCDF	55673-89-7	0.139	U	0.139	5.63	1
11031	OCDF	39001-02-0	1.54	JB	0.173	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	65	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-092-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163651
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS092 SDG#: DX020-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-092-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SS-0.0-0.5

LLI Sample # SW 6163651
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:27 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS092 SDG#: DX020-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/12/2011 23:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

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Analysis Report

Sample Description: **SL-103-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163652
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS103 SDG#: DX020-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163652
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS103 SDG#: DX020-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.127	U	0.127	1.13	1
11031	12378-PeCDD	40321-76-4	0.115	U	0.115	5.63	1
11031	123478-HxCDD	39227-28-6	0.0902	U	0.0902	5.63	1
11031	123678-HxCDD	57653-85-7	0.145	JQ	0.0891	5.63	1
11031	123789-HxCDD	19408-74-3	0.221	JBQ	0.0909	5.63	1
11031	1234678-HpCDD	35822-46-9	1.86	JBQ	0.168	5.63	1
11031	OCDD	3268-87-9	14.4	B	0.162	11.3	1
11031	2378-TCDF	51207-31-9	0.108	U	0.108	1.13	1
11031	12378-PeCDF	57117-41-6	0.0671	U	0.0671	5.63	1
11031	23478-PeCDF	57117-31-4	0.0676	U	0.0676	5.63	1
11031	123478-HxCDF	70648-26-9	0.0711	U	0.0711	5.63	1
11031	123678-HxCDF	57117-44-9	0.0559	U	0.0559	5.63	1
11031	123789-HxCDF	72918-21-9	0.142	JBQ	0.0786	5.63	1
11031	234678-HxCDF	60851-34-5	0.0658	U	0.0658	5.63	1
11031	1234678-HpCDF	67562-39-4	0.363	JBQ	0.0630	5.63	1
11031	1234789-HpCDF	55673-89-7	0.109	U	0.109	5.63	1
11031	OCDF	39001-02-0	0.798	JB	0.163	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163652
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS103 SDG#: DX020-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-103-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SS-0.0-0.5

LLI Sample # SW 6163652
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:25 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS103 SDG#: DX020-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/13/2011 00:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163653
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS089 SDG#: DX020-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163653
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS089 SDG#: DX020-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0969 U	0.0969	1.07	1
11031	12378-PeCDD	40321-76-4	0.227 U	0.227	5.36	1
11031	123478-HxCDD	39227-28-6	0.383 JB	0.344	5.36	1
11031	123678-HxCDD	57653-85-7	11.9	0.353	5.36	1
11031	123789-HxCDD	19408-74-3	1.04 JBQ	0.350	5.36	1
11031	1234678-HpCDD	35822-46-9	675 B	0.747	5.36	1
11031	OCDD	3268-87-9	10,500 EB	1.47	10.7	1
11031	2378-TCDF	51207-31-9	0.134 U	0.134	1.07	1
11031	12378-PeCDF	57117-41-6	0.132 JBQ	0.0939	5.36	1
11031	23478-PeCDF	57117-31-4	0.285 JBQ	0.0864	5.36	1
11031	123478-HxCDF	70648-26-9	2.30 JBQ	0.298	5.36	1
11031	123678-HxCDF	57117-44-9	0.755 JB	0.269	5.36	1
11031	123789-HxCDF	72918-21-9	0.316 U	0.316	5.36	1
11031	234678-HxCDF	60851-34-5	0.848 JBQ	0.291	5.36	1
11031	1234678-HpCDF	67562-39-4	58.0 B	0.348	5.36	1
11031	1234789-HpCDF	55673-89-7	5.67 B	0.448	5.36	1
11031	OCDF	39001-02-0	376 B	0.257	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163653
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS089 SDG#: DX020-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SS-0.0-0.5

LLI Sample # SW 6163653
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS089 SDG#: DX020-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/13/2011 00:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-236-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163654
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS236 SDG#: DX020-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-236-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163654
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS236 SDG#: DX020-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.334	U	0.334	1.06	1
11031	12378-PeCDD	40321-76-4	0.359	U	0.359	5.31	1
11031	123478-HxCDD	39227-28-6	0.524	JBQ	0.415	5.31	1
11031	123678-HxCDD	57653-85-7	1.21	JQ	0.446	5.31	1
11031	123789-HxCDD	19408-74-3	0.917	JBQ	0.442	5.31	1
11031	1234678-HpCDD	35822-46-9	28.2	B	1.20	5.31	1
11031	OCDD	3268-87-9	316	B	0.938	10.6	1
11031	2378-TCDF	51207-31-9	0.425	U	0.425	1.06	1
11031	12378-PeCDF	57117-41-6	0.457	JBQ	0.262	5.31	1
11031	23478-PeCDF	57117-31-4	1.82	JBQ	0.238	5.31	1
11031	123478-HxCDF	70648-26-9	1.14	JBQ	0.371	5.31	1
11031	123678-HxCDF	57117-44-9	0.810	JB	0.358	5.31	1
11031	123789-HxCDF	72918-21-9	0.595	JBQ	0.383	5.31	1
11031	234678-HxCDF	60851-34-5	0.695	JBQ	0.338	5.31	1
11031	1234678-HpCDF	67562-39-4	4.74	JBQ	0.500	5.31	1
11031	1234789-HpCDF	55673-89-7	0.767	JBQ	0.606	5.31	1
11031	OCDF	39001-02-0	9.75	JB	0.561	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-236-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163654
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS236 SDG#: DX020-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-236-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-236-SA5B-SS-0.0-0.5

LLI Sample # SW 6163654
LLI Group # 1225224
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:10 by BH

Submitted: 12/14/2010 10:05
Reported: 03/11/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS236 SDG#: DX020-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10363001	01/13/2011 01:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10363001	12/29/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162403B	12/15/2010 10:09	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225224
Reported: 03/11/11 at 02:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10349162403A	Sample number(s): 6163633-6163635								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10349162403B	Sample number(s): 6163636-6163654								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10363001	Sample number(s): 6163633-6163654								
2378-TCDD	0.0143 U	0.0143	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0342 J	0.0187	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0175 J	0.0162	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0168 U	0.0168	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0253 J	0.0169	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.120 J	0.0195	5.00	ng/kg	98		70-140		
OCDD	0.267 J	0.0250	10.0	ng/kg	100		78-144		
2378-TCDF	0.0181 U	0.0181	1.00	ng/kg	103		75-158		
2378-TCDF-Conf	0.0398 U	0.0398	1.00	ng/kg					
12378-PeCDF	0.0395 J	0.0115	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0407 J	0.0115	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0536 J	0.0135	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0265 J	0.0114	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0565 J	0.0157	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0592 J	0.0130	5.00	ng/kg	105		70-156		
1234678-HpCDF	0.142 J	0.0102	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0456 J	0.0197	5.00	ng/kg	107		78-138		
OCDF	0.165 J	0.0244	10.0	ng/kg	105		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10349162403A	Sample number(s): 6163633-6163635					BKG: P163597			
28a Moisture Content by 160.3						8.6	8.6	0	20
Batch number: 10349162403B	Sample number(s): 6163636-6163654					BKG: P163599			
28a Moisture Content by 160.3						6.3	6.5	2	20
Batch number: 10363001	Sample number(s): 6163633-6163654 UNSPK: 6163636								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225224
Reported: 03/11/11 at 02:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	92	91	67-158	1	25				
12378-PeCDD	94	100	70-142	6	25				
123478-HxCDD	101	103	70-164	2	25				
123678-HxCDD	92	101	76-134	8	25				
123789-HxCDD	96	104	64-162	6	25				
1234678-HpCDD	-76 (2)	216 (2)	70-140	33*	25				
OCDD	-683 (2)	497 (2)	78-144	36*	25				
2378-TCDF	100	96	75-158	4	25				
12378-PeCDF	101	101	80-134	0	25				
23478-PeCDF	100	100	68-160	0	25				
123478-HxCDF	103	107	72-134	4	25				
123678-HxCDF	102	105	84-130	3	25				
123789-HxCDF	108	107	78-130	2	25				
234678-HxCDF	103	108	70-156	4	25				
1234678-HpCDF	61*	128*	82-122	26*	25				
1234789-HpCDF	105	106	78-138	1	25				
OCDF	71	144	63-170	26*	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 10363001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6163633	70	85	80	66	72	71
6163634	65	79	68	72	71	63
6163635	63	83	71	73	69	63
6163636	64	79	69	72	70	67
6163637	71	80	67	75	67	62
6163638	58	73	60	61	59	59
6163639	63	83	65	74	65	59
6163640	70	71	63	69	65	59
6163641	71	84	70	73	70	66
6163642	67	80	71	78	74	75
6163643	78	93	76	78	77	73
6163644	67	79	74	77	71	68
6163645	71	74	74	78	81	71
6163646	79	85	76	77	78	77
6163647	74	81	69	74	66	67
6163648	68	71	58	70	61	53
6163649	70	79	66	75	70	69
6163650	86	96	79	87	82	78
6163651	57	68	59	66	61	59
6163652	70	79	65	78	68	64
6163653	78	87	76	79	75	78
6163654	71	83	72	73	75	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225224
Reported: 03/11/11 at 02:47 PM

Surrogate Quality Control

Blank	60	67	56	64	56	54
MS	71	80	67	75	67	62
MSD	58	73	60	61	59	59
OPR	56	59	49	57	51	46
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6163633	64	63	43	80	88	84
6163634	81	63	51	71	90	76
6163635	82	63	55	77	94	76
6163636	86	70	60	76	86	79
6163637	92	62	55	75	89	77
6163638	70	57	51	67	75	64
6163639	90	59	55	80	93	76
6163640	77	60	55	82	79	71
6163641	82	68	60	83	82	72
6163642	79	66	61	73	81	77
6163643	79	74	72	87	95	79
6163644	85	67	62	80	83	78
6163645	79	66	57	81	80	83
6163646	80	71	65	82	83	79
6163647	81	57	50	79	85	71
6163648	75	51	46	81	82	68
6163649	81	64	57	87	88	76
6163650	94	74	67	100	109	88
6163651	76	59	52	65	77	69
6163652	88	59	53	79	88	78
6163653	80	72	69	86	93	82
6163654	75	70	65	82	87	77
Blank	79	50	46	70	73	69
MS	92	62	55	75	89	77
MSD	70	57	51	67	75	64
OPR	77	47	44	67	71	63
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6163633	64	70	66	45	72	80
6163634	72	72	82	63	61	83
6163635	71	71	75	64	58	79
6163636	74	74	84	72	63	81
6163637	75	74	79	70	61	82
6163638	61	62	66	58	56	73
6163639	71	74	76	70	59	86
6163640	75	70	73	71	65	76
6163641	71	71	78	70	65	81
6163642	73	77	72	68	69	81
6163643	75	75	79	73	76	91
6163644	72	71	76	69	70	81
6163645	80	80	80	70	71	81
6163646	74	76	76	71	73	82
6163647	70	73	73	63	71	83
6163648	66	69	71	63	62	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225224
Reported: 03/11/11 at 02:47 PM

Surrogate Quality Control

6163649	79	77	79	69	69	85
6163650	87	86	90	81	82	100
6163651	66	69	71	62	54	72
6163652	78	78	78	73	66	86
6163653	78	80	83	77	77	86
6163654	76	78	80	72	77	84
Blank	63	62	68	60	48	70
MS	75	74	79	70	61	82
MSD	61	62	66	58	56	73
OPR	58	58	66	61	45	64
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6163633	
6163634	
6163635	
6163636	
6163637	
6163638	
6163639	
6163640	76
6163641	
6163642	61
6163643	
6163644	
6163645	
6163646	
6163647	
6163648	
6163649	
6163650	
6163651	
6163652	
6163653	
6163654	
Blank	56
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1225224 6163633-54

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, laboratory measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs EPA 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020B/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-006-SA5C-SB-9.0-10.0	12.13.10	0955	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	dup
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	8 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	MS sample
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	4 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	MS sample
EB-15-SA5B-121310	12.13.10	1215	water	none	6-1 liter amber			X						X	X			X	X										rinsate
EB-15-SA5B-121310	12.13.10	1215	water	none	1-500 ml poly							X	X			X													rinsate
EB-15-SA5B-121310	12.13.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB-15-SA5B-121310	12.13.10	1215	water	HCl	6-40 mL amber VOA vials	X	X																						rinsate
SL-006-SA5C-SB-4.5MS	12.13.10	0943	soil	none	15 Encore Samplers	X	X		X																				MS sample
SL-006-SA5C-SB-9.5	12.13.10	0953	soil	none	5 Encore Samplers	X	X		X																				
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	5 Encore Samplers	X	X		X																				dup
SL-007-SA5C-SB-9.5	12.13.10	1210	soil	none	5 Encore Samplers	X	X		X																				
SL-007-SA5C-SB-4.0-5.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-007-SA5C-SB-9.0-10.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-075-SA5B-SS-0.0-0.5	12.13.10	0903	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-007-SA5B-SS-0.0-0.5	12.13.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-007-SA5B-SS-4.5	12.13.10	1200	soil	none	5 Encore Samplers	X	X		X																				
SL-078-SA5B-SS-0.0-0.5	12.13.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-084-SA5B-SS-0.0-0.5	12.13.10	1046	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-076-SA5B-SS-0.0-0.5	12.13.10	0928	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-071-SA5B-SS-0.0-0.5MS	12.13.10	1009	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X	X	X	X										MS sample
SL-139-SA5B-SS-0.0-0.5	12.13.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-083-SA5B-SS-0.0-0.5	12.13.10	1049	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-074-SA5B-SS-0.0-0.5	12.13.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-301-SA5B-SS-0.0-0.5	12.13.10	0900	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-073-SA5B-SS-0.0-0.5	12.13.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-072-SA5B-SS-0.0-0.5	12.13.10	0948	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
DUP04-SA5B-QC-121310	12.13.10	1015	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										dup
SED-029-SIV-SD-0.0-0.5	12.13.10	1152	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-031-SIV-SD-0.0-0.5	12.13.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-030-SIV-SD-0.0-0.5	12.13.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-040-SIV-SD-0.0-0.5	12.13.10	1019	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-086-SA5B-SS-0.0-0.5	12.13.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-092-SA5B-SS-0.0-0.5	12.13.10	1327	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-103-SA5B-SS-0.0-0.5	12.13.10	1425	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-089-SA5B-SS-0.0-0.5	12.13.10	1410	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-236-SA5B-SS-0.0-0.5	12.13.10	1310	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	5 Encore Samplers	X	X		X																				
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-087-SA5B-SS-0.0-0.5	12.13.10	1317	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-095-SA5B-SS-0.0-0.5	12.13.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-091-SA5B-SS-0.0-0.5	12.13.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-003-SA5C-SB-4.0-5.0	12.13.10	1437	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-003-SA5C-SB-4.5	12.13.10	1433	soil	none	5 Encore Samplers	X	X		X																				
SL-001-SA5C-SB-4.0-5.0	12.13.10	1608	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-001-SA5C-SB-9.0-10.0	12.13.10	1616	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-001-SA5C-SB-4.5	12.13.10	1604	soil	none	5 Encore Samplers	X	X		X																				
SL-001-SA5C-SB-9.5	12.13.10	1612	soil	none	5 Encore Samplers	X	X		X																				
SED-032-SIV-SD-0.0-0.5	12.13.10	1457	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-033-SIV-SD-0.0-0.5	12.13.10	1540	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12/13/10 1630		12/14/10	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. 8898898 0007 32992	1005	6 coolers

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/14/2010
Group Number: 1225274
SDG: DE037
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-006-SA5C-SB-9.0-10.0 Soil	6163869
DUP13-SA5C-QC-121310 Soil	6163870
SL-006-SA5C-SB-4.0-5.0 Soil	6163871
SL-006-SA5C-SB-4.0-5.0MS Soil	6163872
SL-006-SA5C-SB-4.0-5.0MSD Soil	6163873
SL-006-SA5C-SB-4.0-5.0DUP Soil	6163874
EB-15-SA5B-121310 Water	6163875
SL-007-SA5C-SB-4.0-5.0 Soil	6163876
SL-007-SA5C-SB-9.0-10.0 Soil	6163877
SL-075-SA5B-SS-0.0-0.5 Soil	6163878
SL-077-SA5B-SS-0.0-0.5 Soil	6163879
SL-085-SA5B-SS-0.0-0.5 Soil	6163880
SL-087-SA5B-SS-0.0-0.5 Soil	6163881
SL-095-SA5B-SS-0.0-0.5 Soil	6163882
SL-091-SA5B-SS-0.0-0.5 Soil	6163883
SL-003-SA5C-SB-4.0-5.0 Soil	6163884
SL-001-SA5C-SB-4.0-5.0 Soil	6163885
SL-001-SA5C-SB-9.0-10.0 Soil	6163886
SED-032-SIV-SD-0.0-0.5 Soil	6163887
SED-033-SIV-SD-0.0-0.5 Soil	6163888

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

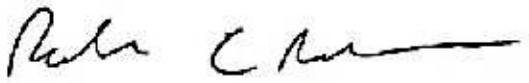

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.7	J	7.3	8.8		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.01
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.01
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.01
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1.01
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.01
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.01
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1.01
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.01
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.01
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.01
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.01
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1.01
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.01
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.01
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		1.01
06192	Methylene Chloride	75-09-2	1.1	J	0.26	4.4		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.01

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.01
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1.01
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		25.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	78.4		36.3	72.6		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.98
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U	54	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	54	U	54	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	54	U	54	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	54	U	54	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	54	U	54	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	83	U	83	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54	U	54	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U	54	160	10000000	1

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Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	990	J	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,200		5.32	21.2		1
07914	Boron	7440-42-8	4.83	J	0.941	5.29		1
01650	Calcium	7440-70-2	2,620		6.48	21.2		1
01654	Iron	7439-89-6	18,500		4.98	21.2		1
01656	Lithium	7439-93-2	17.9		0.23	2.1		1
01657	Magnesium	7439-95-4	3,420		2.69	10.6		1
06958	Manganese	7439-96-5	233		0.0825	0.529		1
10145	Phosphorus	7723-14-0	318		0.592	10.6		1
01662	Potassium	7440-09-7	2,590		19.0	52.9		1
01667	Sodium	7440-23-5	148		39.4	106		1
07968	Strontium	7440-24-6	19.8		0.0656	0.529		1
06969	Tin	7440-31-5	2.43	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,100		0.804	2.12		2
10146	Zirconium	7440-67-7	1.68	J	0.888	5.29		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.296		0.0647	0.216		2

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Sample Description: **SL-006-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.4	0.0647	0.431		2
06126	Barium	7440-39-3	106	0.116	0.431		2
06127	Beryllium	7440-41-7	1.30	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.248	0.0388	0.108		2
06131	Chromium	7440-47-3	50.1	0.129	0.431		2
06132	Cobalt	7440-48-4	11.1	0.0216	0.108		2
06133	Copper	7440-50-8	19.7	0.0712	0.431		2
06135	Lead	7439-92-1	13.0	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.790	0.0539	0.108		2
06139	Nickel	7440-02-0	26.9	0.108	0.431		2
06141	Selenium	7782-49-2	0.241 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0704 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.497	0.0324	0.108		2
06148	Vanadium	7440-62-2	93.3	0.0237	0.108		2
06149	Zinc	7440-66-6	114	0.604	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.87	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.54		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	379	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.64	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50		1

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Sample Description: **SL-006-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-006-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 03:57	Laura M Krieger	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 03:07	Sara E Johnson	25.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 16:54	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:42	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 16:52	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 15:55	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 01:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 21:38	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 15:54	Marie D John	22.98
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:57	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 00:22	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 22:49	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 02:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0691 SDG#: DE037-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103500005A	12/17/2010 18:20	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 13:17	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103500005A	12/16/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:52	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/24/2010 10:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 14:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 14:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 02:19	Venia B McFadden	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0691 SDG#: DE037-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/03/2011 22:03	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:45	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP13-SA5C-QC-121310 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4	U	8.4	10		1.1
06192	Benzene	71-43-2	0.13	U	0.13	5.1		1.1
06192	Bromobenzene	108-86-1	0.16	U	0.16	5.1		1.1
06192	Bromochloromethane	74-97-5	0.42	U	0.42	5.1		1.1
06192	Bromodichloromethane	75-27-4	0.10	U	0.10	5.1		1.1
06192	Bromoform	75-25-2	0.51	U	0.51	5.1		1.1
06192	Bromomethane	74-83-9	0.32	U	0.32	5.1		1.1
06192	2-Butanone	78-93-3	1.5	U	1.5	10		1.1
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	5.1		1.1
06192	sec-Butylbenzene	135-98-8	0.08	U	0.08	5.1		1.1
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	5.1		1.1
06192	Carbon Tetrachloride	56-23-5	0.18	U	0.18	5.1		1.1
06192	Chlorobenzene	108-90-7	0.14	U	0.14	5.1		1.1
06192	Chloroethane	75-00-3	0.16	U	0.16	5.1		1.1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.38	U	0.38	5.1		1.1
06192	Chloroform	67-66-3	0.15	U	0.15	5.1		1.1
06192	Chloromethane	74-87-3	0.42	U	0.42	5.1		1.1
06192	2-Chlorotoluene	95-49-8	0.18	U	0.18	5.1		1.1
06192	4-Chlorotoluene	106-43-4	0.18	U	0.18	5.1		1.1
06192	Chlorotrifluoroethene	79-38-9	0.63	U	0.63	6.3		1.1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.88	U	0.88	5.1		1.1
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	5.1		1.1
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	5.1		1.1
06192	Dibromomethane	74-95-3	0.30	U	0.30	5.1		1.1
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	5.1		1.1
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	5.1		1.1
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	5.1		1.1
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	5.1		1.1
06192	1,1-Dichloroethane	75-34-3	0.13	U	0.13	5.1		1.1
06192	1,2-Dichloroethane	107-06-2	0.19	U	0.19	5.1		1.1
06192	1,1-Dichloroethene	75-35-4	0.49	U	0.49	5.1		1.1
06192	cis-1,2-Dichloroethene	156-59-2	0.24	U	0.24	5.1		1.1
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	5.1		1.1
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	5.1		1.1
06192	1,3-Dichloropropane	142-28-9	0.10	U	0.10	5.1		1.1
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	5.1		1.1
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	5.1		1.1
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.1		1.1
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	5.1		1.1
06192	Ethylbenzene	100-41-4	0.08	U	0.08	5.1		1.1
06192	Freon 113	76-13-1	0.14	U	0.14	5.1		1.1
06192	Freon 133a	75-88-7	0.63	U	0.63	6.3		1.1
06192	Hexachlorobutadiene	87-68-3	0.18	U	0.18	5.1		1.1
06192	2-Hexanone	591-78-6	2.0	U	2.0	10		1.1
06192	Isopropylbenzene	98-82-8	0.08	U	0.08	5.1		1.1
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	5.1		1.1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	5.1		1.1
06192	4-Methyl-2-pentanone	108-10-1	0.49	U	0.49	10		1.1
06192	Methylene Chloride	75-09-2	0.97	J	0.30	5.1		1.1
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	5.1		1.1

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Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.13	U	0.13	5.1		1.1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	5.1		1.1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.29	U	0.29	5.1		1.1
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	5.1		1.1
06192	Toluene	108-88-3	0.10	U	0.10	5.1		1.1
06192	1,2,3-Trichlorobenzene	87-61-6	0.18	U	0.18	5.1		1.1
06192	1,2,4-Trichlorobenzene	120-82-1	0.23	U	0.23	5.1		1.1
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	5.1		1.1
06192	1,1,2-Trichloroethane	79-00-5	0.34	U	0.34	5.1		1.1
06192	Trichloroethene	79-01-6	0.19	U	0.19	5.1		1.1
06192	Trichlorofluoromethane	75-69-4	0.37	U	0.37	5.1		1.1
06192	1,2,3-Trichloropropane	96-18-4	0.42	U	0.42	5.1		1.1
06192	1,2,4-Trimethylbenzene	95-63-6	0.51	U	0.51	5.1		1.1
06192	1,3,5-Trimethylbenzene	108-67-8	0.13	U	0.13	5.1		1.1
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	5.1		1.1
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	5.1		1.1
06192	o-Xylene	95-47-6	0.21	U	0.21	5.1		1.1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.28
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	129		19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1

*=This limit was used in the evaluation of the final result
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Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.64
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U	86	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	72	U	72	170	10000000	1
10132	Tetryl	479-45-8	88	U	88	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1

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Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.44	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		5.66	22.5		1
07914	Boron	7440-42-8	5.54	J	1.00	5.62		1
01650	Calcium	7440-70-2	7,160		6.89	22.5		1
01654	Iron	7439-89-6	33,600		10.6	45.0		2
01656	Lithium	7439-93-2	29.5		0.25	2.2		1
01657	Magnesium	7439-95-4	7,170		2.86	11.2		1
06958	Manganese	7439-96-5	332		0.0877	0.562		1
10145	Phosphorus	7723-14-0	397		0.630	11.2		1
01662	Potassium	7440-09-7	3,800		20.2	56.2		1
01667	Sodium	7440-23-5	189		41.9	112		1
07968	Strontium	7440-24-6	33.9		0.0697	0.562		1
06969	Tin	7440-31-5	2.94	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,560		0.854	2.25		2
10146	Zirconium	7440-67-7	4.82	J	0.944	5.62		1

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Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.66		0.0681	0.454		2
06126	Barium	7440-39-3	123		0.123	0.454		2
06127	Beryllium	7440-41-7	0.962		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.102	J	0.0409	0.114		2
06131	Chromium	7440-47-3	43.1		0.136	0.454		2
06132	Cobalt	7440-48-4	9.56		0.0227	0.114		2
06133	Copper	7440-50-8	12.3		0.0749	0.454		2
06135	Lead	7439-92-1	9.46		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.419		0.0568	0.114		2
06139	Nickel	7440-02-0	19.0		0.114	0.454		2
06141	Selenium	7782-49-2	0.340	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0310	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.392		0.0341	0.114		2
06148	Vanadium	7440-62-2	89.1		0.0250	0.114		2
06149	Zinc	7440-66-6	91.3		0.636	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	16.8		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	400		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.05		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 04:19	Laura M Krieger	1.1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 03:27	Sara E Johnson	23.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 16:40	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 16:38	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 12:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 02:15	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 22:11	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 16:30	Marie D John	22.64
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:59	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 01:05	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 22:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 02:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1

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Sample Description: DUP13-SA5C-QC-121310 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103500005A	12/17/2010 18:34	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 11:47	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103500005A	12/16/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 02:56	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:56	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 14:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 14:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 02:44	Venia B McFadden	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP13 SDG#: DE037-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/03/2011 22:19	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	0.63	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.95

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Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.4	U	4.4	13		19.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The following compounds were detected in the method blank at the respective concentrations of: diethylphthalate 28 ug/kg bis(2-ethylhexyl)phthalate 18 ug/kg These blank values were not subtracted from the analytical results.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.46	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.73
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85	U	85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	71	U	71	170	10000000	1

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Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	86	U	86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.97	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.46	21.7		1
07914	Boron	7440-42-8	7.11		0.966	5.43		1
01650	Calcium	7440-70-2	7,330		6.65	21.7		1
01654	Iron	7439-89-6	29,600		10.2	43.4		2
01656	Lithium	7439-93-2	29.0		0.24	2.2		1
01657	Magnesium	7439-95-4	7,030		2.76	10.9		1
06958	Manganese	7439-96-5	387		0.0847	0.543		1
10145	Phosphorus	7723-14-0	419		0.608	10.9		1
01662	Potassium	7440-09-7	3,630		19.5	54.3		1
01667	Sodium	7440-23-5	198		40.5	109		1
07968	Strontium	7440-24-6	32.2		0.0673	0.543		1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.29	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230		0.825	2.17		2
10146	Zirconium	7440-67-7	3.82	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.272		0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.87		0.0670	0.447		2
06126	Barium	7440-39-3	128		0.121	0.447		2
06127	Beryllium	7440-41-7	0.957		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.108	J	0.0402	0.112		2
06131	Chromium	7440-47-3	38.2		0.134	0.447		2
06132	Cobalt	7440-48-4	9.01		0.0223	0.112		2
06133	Copper	7440-50-8	12.0		0.0738	0.447		2
06135	Lead	7439-92-1	9.45		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.517		0.0559	0.112		2
06139	Nickel	7440-02-0	17.0		0.112	0.447		2
06141	Selenium	7782-49-2	0.299	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0341	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.361		0.0335	0.112		2
06148	Vanadium	7440-62-2	76.5		0.0246	0.112		2
06149	Zinc	7440-66-6	81.2		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.0		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	399		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.16	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-006-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 04:41	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 03:46	Sara E Johnson	19.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 16:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:42	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 16:49	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	12/30/2010 21:03	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 00:33	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 19:56	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 17:07	Marie D John	22.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:58	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 01:47	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:08	James H Place	1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 03:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 21:53	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 06:33	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 02:31	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:31	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 14:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 14:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 01:07	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/03/2011 22:35	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:47	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	270	7.1	8.5		0.95
06192	Benzene	71-43-2	21	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	19	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	21	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	21	0.09	4.3		0.95
06192	Bromoform	75-25-2	18	0.43	4.3		0.95
06192	Bromomethane	74-83-9	15	0.27	4.3		0.95
06192	2-Butanone	78-93-3	180	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	17	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	18	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	19	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	22	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	20	0.12	4.3		0.95
06192	Chloroethane	75-00-3	17	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.32	4.3		0.95
06192	Chloroform	67-66-3	22	0.13	4.3		0.95
06192	Chloromethane	74-87-3	16	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	19	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	19	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	21	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	20	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	19	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	18	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	17	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	17	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	11	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	22	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	21	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	21	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	20	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	21	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	21	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	20	0.06	4.3		0.95
06192	Freon 113	76-13-1	22	0.12	4.3		0.95
06192	Freon 133a	75-88-7	19	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	14	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	81	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	19	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	18	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	70	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	22	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	20	0.07	4.3		0.95

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	19		0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	21		0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	19		0.24	4.3		0.95
06192	Tetrachloroethene	127-18-4	20		0.21	4.3		0.95
06192	Toluene	108-88-3	21		0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	13		0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	13		0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	22		0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	20		0.29	4.3		0.95
06192	Trichloroethene	79-01-6	20		0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	19		0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	19		0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	19		0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	19		0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	17		0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	40		0.18	4.3		0.95
06192	o-Xylene	95-47-6	19		0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130		5.0	15		22.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	711		18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,100		190	560		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	3,500	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	560		1
04688	Benzyl alcohol	100-51-6	1,800		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,000		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190		1
04688	4-Chloroaniline	106-47-8	810		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,800		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	690		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190		1
04688	Diethylphthalate	84-66-2	1,900		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,900		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500		190	560		1
04688	2,4-Dinitrophenol	51-28-5	2,000	J	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	380		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,800		19	190		1
04688	Hexachlorobenzene	118-74-1	1,700		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500		75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		190	560		1
04688	Hexachloroethane	67-72-1	1,600		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		19	190		1
04688	Isophorone	78-59-1	1,800		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600		19	190		1
04688	2-Methylphenol	95-48-7	1,900		38	190		1
04688	4-Methylphenol	106-44-5	1,800		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		19	190		1
04688	2-Nitroaniline	88-74-4	1,800		19	190		1
04688	3-Nitroaniline	99-09-2	1,700		38	190		1
04688	4-Nitroaniline	100-01-6	1,400		75	190		1
04688	Nitrobenzene	98-95-3	1,700		19	190		1
04688	2-Nitrophenol	88-75-5	1,700		19	190		1
04688	4-Nitrophenol	100-02-7	1,700		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,800		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,000		19	190		1
04688	Pentachlorophenol	87-86-5	1,300		190	560		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	1,800		19	190		1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	38	190		1
	The following compounds were detected in the method blank at the respective concentrations of: diethylphthalate 28 ug/kg bis(2-ethylhexyl)phthalate 18 ug/kg These blank values were not subtracted from the analytical results.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.75	1.9		1
10138	Acenaphthylene	208-96-8	34	0.38	1.9		1
10138	Anthracene	120-12-7	35	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	34	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	33	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	38	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	35	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	39	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	39	6.8	20		1
10138	Chrysene	218-01-9	34	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	21	0.75	1.9		1
10138	Diethylphthalate	84-66-2	40	6.8	20		1
10138	Dimethylphthalate	131-11-3	36	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	6.8	20		1
10138	Fluoranthene	206-44-0	38	0.75	1.9		1
10138	Fluorene	86-73-7	34	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	32	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	30	0.75	1.9		1
10138	Naphthalene	91-20-3	31	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	30	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	43	6.8	20		1
10138	Phenanthrene	85-01-8	32	0.75	1.9		1
10138	Pyrene	129-00-0	32	0.75	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg	mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.9	0.2	1.1		24.65
Explosives	**SW-846 8330A**		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000	85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	3,000	56	170	10000000	1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,900		56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,800		56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	3,000		56	170	10000000	1
10132	HMX	2691-41-0	2,300		140	420	10000000	1
10132	Nitrobenzene	98-95-3	2,800		56	170	10000000	1
10132	Nitroglycerin	55-63-0	63,000		1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	3,000		110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	3,000		140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	3,000		110	170	10000000	1
10132	PETN	78-11-5	73,000		1,100	3,400	10000000	1
10132	RDX	121-82-4	2,700		71	170	10000000	1
10132	Tetryl	479-45-8	3,700		86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,300		56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	3,000		56	170	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,500		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	19		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	6.6		0.37	1.9		1
10225	PCB-1260	11096-82-5	21		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300		110	560		1
10501	Isopropanol	67-63-0	2,400		110	560		1
10501	Methanol	67-56-1	2,100		110	560		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	J	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.8	J	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,900		5.62	22.3		1
07914	Boron	7440-42-8	217		0.995	5.59		1
01650	Calcium	7440-70-2	6,690		6.85	22.3		1
01654	Iron	7439-89-6	30,100		5.26	22.3		1
01656	Lithium	7439-93-2	136		0.25	2.2		1
01657	Magnesium	7439-95-4	6,490		2.84	11.2		1
06958	Manganese	7439-96-5	480		0.0872	0.559		1
10145	Phosphorus	7723-14-0	479		0.626	11.2		1
01662	Potassium	7440-09-7	5,130		20.1	55.9		1
01667	Sodium	7440-23-5	1,230		41.7	112		1
07968	Strontium	7440-24-6	139		0.0693	0.559		1
06969	Tin	7440-31-5	424		1.12	11.2		1
06970	Titanium	7440-32-6	1,820		0.849	2.23		2
10146	Zirconium	7440-67-7	109		0.939	5.59		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.943		0.0657	0.219		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.								
06125	Arsenic	7440-38-2	9.93		0.0657	0.438		2
06126	Barium	7440-39-3	135		0.118	0.438		2
06127	Beryllium	7440-41-7	1.95		0.0175	0.110		2
06128	Cadmium	7440-43-9	1.52		0.0394	0.110		2
06131	Chromium	7440-47-3	49.1		0.131	0.438		2
06132	Cobalt	7440-48-4	63.4		0.0219	0.110		2
06133	Copper	7440-50-8	22.5		0.0723	0.438		2
06135	Lead	7439-92-1	12.5		0.0114	0.219		2
06138	Molybdenum	7439-98-7	13.4		0.0548	0.110		2
06139	Nickel	7440-02-0	28.1		0.110	0.438		2
06141	Selenium	7782-49-2	2.64		0.0438	0.438		2
06142	Silver	7440-22-4	13.4		0.0131	0.110		2
06145	Thallium	7440-28-0	0.853		0.0329	0.110		2
06148	Vanadium	7440-62-2	89.7		0.0241	0.110		2
06149	Zinc	7440-66-6	91.9		0.614	3.29		2

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.171	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.6	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	30.0	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	525	10.2	33.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	44.8	1.1	5.6		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	6.0	0.20	0.55		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-006-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 05:04	Laura M Krieger	0.95
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 05:48	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 04:05	Sara E Johnson	22.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:00	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 16:57	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	12/30/2010 21:21	Timothy J Trees	1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 00:58	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 20:30	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 17:44	Marie D John	24.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:55	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 02:29	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 03:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 22:08	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 07:18	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:42	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 14:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 14:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 01:55	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/03/2011 22:59	Venia B McFadden	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:48	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	280	6.9	8.2		0.91
06192	Benzene	71-43-2	20	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	16	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	19	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	19	0.08	4.1		0.91
06192	Bromoform	75-25-2	17	0.41	4.1		0.91
06192	Bromomethane	74-83-9	13	0.26	4.1		0.91
06192	2-Butanone	78-93-3	180	1.3	8.2		0.91
06192	n-Butylbenzene	104-51-8	14	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	15	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	15	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	20	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	17	0.11	4.1		0.91
06192	Chloroethane	75-00-3	14	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.31	4.1		0.91
06192	Chloroform	67-66-3	20	0.12	4.1		0.91
06192	Chloromethane	74-87-3	15	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	16	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	15	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	22	0.53	5.3		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	18	0.21	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	18	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	19	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	15	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	14	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	14	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	10	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	20	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	19	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	20	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	19	0.20	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	19	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	19	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	19	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	19	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	19	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	17	0.06	4.1		0.91
06192	Freon 113	76-13-1	20	0.11	4.1		0.91
06192	Freon 133a	75-88-7	20	0.53	5.3		0.93
06192	Hexachlorobutadiene	87-68-3	10	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	82	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	16	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	15	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	72	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	19	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	17	0.07	4.1		0.91

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Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	16		0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	18		0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	18		0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	17		0.21	4.1		0.91
06192	Toluene	108-88-3	18		0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	10		0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	10		0.19	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	20		0.21	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	18		0.28	4.1		0.91
06192	Trichloroethene	79-01-6	18		0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	17		0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	18		0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	16		0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	16		0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	15		0.21	4.1		0.91
06192	m+p-Xylene	179601-23-1	34		0.17	4.1		0.91
06192	o-Xylene	95-47-6	16		0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		5.1	15		22.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	624		18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600		19	190		1
04688	Acenaphthylene	208-96-8	1,600		19	190		1
04688	Aniline	62-53-3	840		190	560		1
04688	Anthracene	120-12-7	1,600		19	190		1
04688	Benzidine	92-87-5	2,200	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,600		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,400		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,300		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,300		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		19	190		1
04688	Benzoic acid	65-85-0	880		190	560		1
04688	Benzyl alcohol	100-51-6	1,700		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,700		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,600		19	190		1
04688	Carbazole	86-74-8	1,600		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		38	190		1
04688	4-Chloroaniline	106-47-8	710		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,600		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		38	190		1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,600		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,400		19	190		1
04688	Dibenzofuran	132-64-9	1,600		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	610		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,700		19	190		1
04688	Diethylphthalate	84-66-2	1,600		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,600		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,700		38	190		1
04688	Dimethylphthalate	131-11-3	1,600		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200		190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,400	J	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,600		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,500		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	380		1
04688	Fluoranthene	206-44-0	1,600		19	190		1
04688	Fluorene	86-73-7	1,600		19	190		1
04688	Hexachlorobenzene	118-74-1	1,500		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,400		75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,300		190	560		1
04688	Hexachloroethane	67-72-1	1,400		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,400		19	190		1
04688	Isophorone	78-59-1	1,600		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,600		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500		19	190		1
04688	2-Methylphenol	95-48-7	1,700		38	190		1
04688	4-Methylphenol	106-44-5	1,600		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		19	190		1
04688	2-Nitroaniline	88-74-4	1,600		19	190		1
04688	3-Nitroaniline	99-09-2	1,500		38	190		1
04688	4-Nitroaniline	100-01-6	1,200		75	190		1
04688	Nitrobenzene	98-95-3	1,600		19	190		1
04688	2-Nitrophenol	88-75-5	1,500		19	190		1
04688	4-Nitrophenol	100-02-7	1,500		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,600		19	190		1
04688	Pentachlorophenol	87-86-5	1,100		190	560		1
04688	Phenanthrene	85-01-8	1,600		19	190		1
04688	Phenol	108-95-2	1,600		19	190		1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,600	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,500	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500	38	190		1
	The following compounds were detected in the method blank at the respective concentrations of: diethylphthalate 28 ug/kg bis(2-ethylhexyl)phthalate 18 ug/kg These blank values were not subtracted from the analytical results.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33	0.75	1.9		1
10138	Acenaphthylene	208-96-8	36	0.38	1.9		1
10138	Anthracene	120-12-7	36	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	35	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	34	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	39	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	19	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	36	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	39	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	39	6.8	20		1
10138	Chrysene	218-01-9	36	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	22	0.75	1.9		1
10138	Diethylphthalate	84-66-2	42	6.8	20		1
10138	Dimethylphthalate	131-11-3	38	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	6.8	20		1
10138	Fluoranthene	206-44-0	39	0.75	1.9		1
10138	Fluorene	86-73-7	36	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	33	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	31	0.75	1.9		1
10138	Naphthalene	91-20-3	31	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	30	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	43	6.8	20		1
10138	Phenanthrene	85-01-8	33	0.75	1.9		1
10138	Pyrene	129-00-0	33	0.75	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.9	0.2	1.1		24.13
Explosives	**SW-846 8330A**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000	85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	3,000	56	170	10000000	1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,900		56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,800		56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	3,000		56	170	10000000	1
10132	HMX	2691-41-0	2,400		140	420	10000000	1
10132	Nitrobenzene	98-95-3	2,800		56	170	10000000	1
10132	Nitroglycerin	55-63-0	63,000		1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	3,000		110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	3,000		140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	3,000		110	170	10000000	1
10132	PETN	78-11-5	73,000		1,100	3,400	10000000	1
10132	RDX	121-82-4	2,800		71	170	10000000	1
10132	Tetryl	479-45-8	3,800		86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,300		56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	3,000		56	170	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,600		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	21		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	6.8		0.37	1.9		1
10225	PCB-1260	11096-82-5	22		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,400		110	560		1
10501	Isopropanol	67-63-0	2,400		110	560		1
10501	Methanol	67-56-1	2,400		110	560		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	J	1.6	4.0		1
10318	o-Terphenyl	84-15-1	1.7	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	J	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,200		5.57	22.1		1
07914	Boron	7440-42-8	212		0.985	5.53		1
01650	Calcium	7440-70-2	6,360		6.78	22.1		1
01654	Iron	7439-89-6	30,500		10.4	44.3		2
01656	Lithium	7439-93-2	134		0.24	2.2		1
01657	Magnesium	7439-95-4	6,550		2.81	11.1		1
06958	Manganese	7439-96-5	487		0.0863	0.553		1
10145	Phosphorus	7723-14-0	539		0.620	11.1		1
01662	Potassium	7440-09-7	4,740		19.9	55.3		1
01667	Sodium	7440-23-5	1,220		41.3	111		1
07968	Strontium	7440-24-6	138		0.0686	0.553		1
06969	Tin	7440-31-5	416		1.11	11.1		1
06970	Titanium	7440-32-6	1,750		0.841	2.21		2
10146	Zirconium	7440-67-7	108		0.929	5.53		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.05		0.0670	0.223		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.								
06125	Arsenic	7440-38-2	10.3		0.0670	0.447		2
06126	Barium	7440-39-3	140		0.121	0.447		2
06127	Beryllium	7440-41-7	1.92		0.0179	0.112		2
06128	Cadmium	7440-43-9	1.64		0.0402	0.112		2
06131	Chromium	7440-47-3	49.0		0.134	0.447		2
06132	Cobalt	7440-48-4	69.6		0.0223	0.112		2
06133	Copper	7440-50-8	23.1		0.0738	0.447		2
06135	Lead	7439-92-1	11.7		0.0116	0.223		2
06138	Molybdenum	7439-98-7	15.4		0.0559	0.112		2
06139	Nickel	7440-02-0	28.4		0.112	0.447		2
06141	Selenium	7782-49-2	2.84		0.0447	0.447		2
06142	Silver	7440-22-4	14.6		0.0134	0.112		2
06145	Thallium	7440-28-0	0.887		0.0335	0.112		2
06148	Vanadium	7440-62-2	85.5		0.0246	0.112		2
06149	Zinc	7440-66-6	98.2		0.626	3.35		2

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Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.177	0.0032	0.111		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-006-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 05:26	Laura M Krieger	0.91
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 06:11	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 04:25	Sara E Johnson	22.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:05	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:02	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	12/30/2010 21:38	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 01:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 21:04	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 18:20	Marie D John	24.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:54	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 03:12	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 03:43	Lindsey K Lafferty	1

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Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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14420 Albemarle Point Place
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S0645 SDG#: DE037-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 22:23	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 08:03	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 02:45	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:45	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163874
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,900		5.51	21.9		1
07914	Boron	7440-42-8	6.58		0.975	5.48		1
01650	Calcium	7440-70-2	6,360		6.72	21.9		1
01654	Iron	7439-89-6	28,700		5.16	21.9		1
01656	Lithium	7439-93-2	24.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,900		2.78	11.0		1
06958	Manganese	7439-96-5	389		0.0855	0.548		1
10145	Phosphorus	7723-14-0	428		0.614	11.0		1
01662	Potassium	7440-09-7	3,270		19.7	54.8		1
01667	Sodium	7440-23-5	176		40.9	110		1
07968	Strontium	7440-24-6	29.4		0.0679	0.548		1
06969	Tin	7440-31-5	2.33	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,390		0.833	2.19		2
10146	Zirconium	7440-67-7	4.57	J	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.165	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.92		0.0664	0.443		2
06126	Barium	7440-39-3	139		0.120	0.443		2
06127	Beryllium	7440-41-7	0.961		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.120		0.0398	0.111		2
06131	Chromium	7440-47-3	40.6		0.133	0.443		2
06132	Cobalt	7440-48-4	9.52		0.0221	0.111		2
06133	Copper	7440-50-8	12.9		0.0730	0.443		2
06135	Lead	7439-92-1	9.48		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.646		0.0553	0.111		2
06139	Nickel	7440-02-0	18.5		0.111	0.443		2
06141	Selenium	7782-49-2	0.265	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0262	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.366		0.0332	0.111		2
06148	Vanadium	7440-62-2	80.2		0.0243	0.111		2
06149	Zinc	7440-66-6	90.1		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	11.6		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA5C-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163874
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	394		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.4		0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:38	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:30	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-006-SA5C-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163874
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0645 SDG#: DE037-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 14:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 14:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 01:31	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/03/2011 23:47	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **EB-15-SA5B-121310 Water**
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	7	J	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-15-SA5B-121310 Water
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1

Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 4.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1

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Sample Description: **EB-15-SA5B-121310 Water**
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.093	J	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.31	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.11	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1

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Sample Description: EB-15-SA5B-121310 Water
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.24	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.033	J	0.010	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.082	J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.018	J	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1

The following compounds were detected in the method blank at the respective concentrations of:
diethylphthalate .063 ug/l
di-n-butylphthalate .13 ug/l
butylbenzylphthalate .076 ug/l
bis(2-ethylhexyl)phthalate .11 ug/l
di-n-octylphthalate .084 ug/l
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.18	U	0.18	0.56		1
10407	Dalapon	75-99-0	0.28	U	0.28	1.4		1
10407	2,4-DB	94-82-6	0.33	U	0.33	1.1		1
10407	Dicamba	1918-00-9	0.089	U	0.089	0.33		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.56		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.18	U	0.18	0.56		1
10407	MCPA	94-74-6	330	U	330	1,100		1
10407	MCPP	93-65-2	56	U	56	220		1
10407	2,4,5-T	93-76-5	0.017	U	0.017	0.056		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.056		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.13	U	0.13	0.52		1
00177	p,p-DDD	72-54-8	0.0052	U	0.0052	0.021		1
00177	p,p-DDE	72-55-9	0.0052	U	0.0052	0.021		1
00177	p,p-DDT	50-29-3	0.0052	U	0.0052	0.021		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0056	U	0.0056	0.021		1
00177	Endosulfan I	959-98-8	0.0045	U	0.0045	0.010		1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0061	U	0.0061	0.021		1
00177	Endrin	72-20-8	0.0085	U	0.0085	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0052	U	0.0052	0.021		1

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Sample Description: **EB-15-SA5B-121310 Water**
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
00177	Heptachlor	76-44-8	0.0027 U	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024 U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031 U	0.031	0.10		1
00177	Mirex	2385-85-5	0.089 U	0.089	0.26		1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.10 U	0.10	0.52		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000099 J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1

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Sample Description: **EB-15-SA5B-121310 Water**
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	EPA 150.1		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	5.2	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103512AA	12/18/2010 00:05	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103491AA	12/15/2010 10:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103491AA	12/15/2010 10:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103512AA	12/18/2010 00:05	Frank A Valla, Jr	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10350WAB026	12/31/2010 22:37	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349WAI026	12/22/2010 22:23	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10350WAB026	12/16/2010 14:50	Timothy J Attenberger	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB-15-SA5B-121310 Water
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE037-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10466	BNA Water Extraction SIM	SW-846 3510C	1	10349WAI026	12/16/2010 09:30	Olivia Arosemena	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103490003A	12/17/2010 21:06	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103500016A	12/24/2010 11:15	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103500017A	12/22/2010 09:23	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103500017A	12/16/2010 21:25	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103500016A	12/16/2010 21:25	Karen L Beyer	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103490003A	12/15/2010 12:30	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 16:59	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 16:59	John P Hook	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 16:59	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:18	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:18	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:18	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10350196902A	12/17/2010 07:44	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/18/2010 14:59	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10348113001A	12/14/2010 11:57	Nicole M Kepley	1
00200	22b pH by 9040B	EPA 150.1	1	10351020001A	12/17/2010 19:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.92
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.92
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.92
06192	Chloroform	67-66-3	0.14	J	0.12	4.0		0.92
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.92
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.92
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.92
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.92
06192	Methylene Chloride	75-09-2	2.5	J	0.24	4.0		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.92

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	143		36.3	72.5		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.77
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U	54	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	54	U	54	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	54	U	54	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	54	U	54	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	54	U	54	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	83	U	83	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54	U	54	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U	54	160	10000000	1

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	5.1		0.36	1.8		1
10225	PCB-1254	11097-69-1	2.8		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.71	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.37	21.3		1
07914	Boron	7440-42-8	4.96	J	0.949	5.33		1
01650	Calcium	7440-70-2	5,190		6.54	21.3		1
01654	Iron	7439-89-6	20,800		5.02	21.3		1
01656	Lithium	7439-93-2	19.4		0.23	2.1		1
01657	Magnesium	7439-95-4	4,250		2.71	10.7		1
06958	Manganese	7439-96-5	262		0.0832	0.533		1
10145	Phosphorus	7723-14-0	430		0.597	10.7		1
01662	Potassium	7440-09-7	2,790		19.2	53.3		1
01667	Sodium	7440-23-5	201		39.8	107		1
07968	Strontium	7440-24-6	25.0		0.0661	0.533		1
06969	Tin	7440-31-5	2.45	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,230		0.811	2.13		2
10146	Zirconium	7440-67-7	1.20	J	0.896	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.156	J	0.0646	0.215		2

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Sample Description: **SL-007-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.80	0.0646	0.431		2
06126	Barium	7440-39-3	138	0.116	0.431		2
06127	Beryllium	7440-41-7	0.657	0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0887 J	0.0388	0.108		2
06131	Chromium	7440-47-3	24.3	0.129	0.431		2
06132	Cobalt	7440-48-4	7.35	0.0215	0.108		2
06133	Copper	7440-50-8	11.4	0.0711	0.431		2
06135	Lead	7439-92-1	6.51	0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.684	0.0539	0.108		2
06139	Nickel	7440-02-0	12.0	0.108	0.431		2
06141	Selenium	7782-49-2	0.141 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0301 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.380	0.0323	0.108		2
06148	Vanadium	7440-62-2	57.3	0.0237	0.108		2
06149	Zinc	7440-66-6	94.7	0.603	3.23		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	8.0	0.87	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	398	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1

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Sample Description: **SL-007-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-007-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 06:33	Laura M Krieger	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 05:05	Sara E Johnson	24.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:11	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:07	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 16:12	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 02:40	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 22:45	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 18:57	Marie D John	22.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:53	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 03:54	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 04:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1

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Sample Description: **SL-007-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0745 SDG#: DE037-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103500005A	12/17/2010 19:47	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 14:02	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103500005A	12/16/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:00	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 15:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 15:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 03:08	Venia B McFadden	1

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Sample Description: **SL-007-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

S0745 SDG#: DE037-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 00:11	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		1
06192	Methylene Chloride	75-09-2	1.4	J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

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Sample Description: **SL-007-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	105		36.7	73.4		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.7		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	12	J	6.6	20		1
10138	Chrysene	218-01-9	3.0		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	4.3		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.98	J	0.73	1.8		1

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.73	1.8		1
10138	Pyrene	129-00-0	3.6		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.85
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	84	U	84	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
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Project Name: SSFL Area IV Collocated Soil Sampling

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S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	3,000		660	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	1.4	J	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.1	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.88	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	140	J	110	550		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,600		5.43	21.6		1
07914	Boron	7440-42-8	5.74		0.961	5.40		1
01650	Calcium	7440-70-2	3,910		6.62	21.6		1
01654	Iron	7439-89-6	19,900		5.09	21.6		1
01656	Lithium	7439-93-2	19.5		0.24	2.2		1
01657	Magnesium	7439-95-4	3,980		2.74	10.8		1
06958	Manganese	7439-96-5	251		0.0842	0.540		1
10145	Phosphorus	7723-14-0	310		0.605	10.8		1
01662	Potassium	7440-09-7	2,560		19.4	54.0		1
01667	Sodium	7440-23-5	175		40.3	108		1
07968	Strontium	7440-24-6	22.7		0.0669	0.540		1
06969	Tin	7440-31-5	2.43	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,210		0.821	2.16		2
10146	Zirconium	7440-67-7	2.75	J	0.907	5.40		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.132	J	0.0642	0.214		2

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Sample Description: **SL-007-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.29		0.0642	0.428		2
06126	Barium	7440-39-3	132		0.115	0.428		2
06127	Beryllium	7440-41-7	0.814		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.128		0.0385	0.107		2
06131	Chromium	7440-47-3	28.0		0.128	0.428		2
06132	Cobalt	7440-48-4	7.08		0.0214	0.107		2
06133	Copper	7440-50-8	10.8		0.0706	0.428		2
06135	Lead	7439-92-1	7.95		0.0111	0.214		2
06138	Molybdenum	7439-98-7	1.16		0.0535	0.107		2
06139	Nickel	7440-02-0	14.5		0.107	0.428		2
06141	Selenium	7782-49-2	0.185	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0588	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.379		0.0321	0.107		2
06148	Vanadium	7440-62-2	52.7		0.0235	0.107		2
06149	Zinc	7440-66-6	90.9		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0043	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	395		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.44		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-007-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	06:55	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	05:24	Sara E Johnson	22.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:16	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010	17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010	17:13	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011	16:29	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011	03:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010	04:16	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010	14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010	09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010	09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010	19:33	Marie D John	23.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:52	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010	06:01	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010	23:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010	04:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010	07:30	Joseph S Feister	1

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0791 SDG#: DE037-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 22:37	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 17:01	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:03	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 15:28	Ashley M Adams	1

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Sample Description: **SL-007-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0791 SDG#: DE037-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 15:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 03:32	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 00:27	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:12	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-075-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.49	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.9		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.6		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	10		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.2		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.1		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.4	19		1
10138	Chrysene	218-01-9	8.7		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	J	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.4	19		1
10138	Fluoranthene	206-44-0	12		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	4.3		0.71	1.8		1
10138	Pyrene	129-00-0	9.8		0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	6.8	U	6.8	6.8		1
10401	Dicamba	1918-00-9	0.94	J	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	81	U	81	270		1
10401	MCPP (Mecoprop)	93-65-2	280		80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-075-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	2.6		0.35	1.8		1
10225	PCB-1254	11097-69-1	5.1		0.35	1.8		1
10225	PCB-1260	11096-82-5	3.5		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-075-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.30	21.1		1
07914	Boron	7440-42-8	3.61	J	0.938	5.27		1
01650	Calcium	7440-70-2	3,640		6.46	21.1		1
01654	Iron	7439-89-6	24,500		4.97	21.1		1
01656	Lithium	7439-93-2	26.6		0.23	2.1		1
01657	Magnesium	7439-95-4	5,230		2.68	10.5		1
06958	Manganese	7439-96-5	337		0.0822	0.527		1
10145	Phosphorus	7723-14-0	509		0.590	10.5		1
01662	Potassium	7440-09-7	3,410		19.0	52.7		1
01667	Sodium	7440-23-5	119		39.3	105		1
07968	Strontium	7440-24-6	18.5		0.0654	0.527		1
06969	Tin	7440-31-5	2.61	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,330		0.801	2.11		2
10146	Zirconium	7440-67-7	2.25	J	0.886	5.27		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0626	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.68		0.0626	0.418		2
06126	Barium	7440-39-3	151		0.113	0.418		2
06127	Beryllium	7440-41-7	0.777		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.173		0.0376	0.104		2
06131	Chromium	7440-47-3	28.5		0.125	0.418		2
06132	Cobalt	7440-48-4	8.89		0.0209	0.104		2
06133	Copper	7440-50-8	15.1		0.0689	0.418		2
06135	Lead	7439-92-1	10.0		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.843		0.0522	0.104		2
06139	Nickel	7440-02-0	16.9		0.104	0.418		2
06141	Selenium	7782-49-2	0.199	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.173		0.0125	0.104		2
06145	Thallium	7440-28-0	0.378		0.0313	0.104		2
06148	Vanadium	7440-62-2	52.3		0.0230	0.104		2
06149	Zinc	7440-66-6	127		0.585	3.13		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.85	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-075-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.21	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	425		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	6.1		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 03:31	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 04:51	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 01:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 01:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 04:39	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-075-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S7505 SDG#: DE037-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:14	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 15:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 03:56	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/04/2011 00:51	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.8		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	3.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.5	19		1
10138	Fluoranthene	206-44-0	3.7		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	1.4	J	0.72	1.8		1
10138	Pyrene	129-00-0	3.0		0.72	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	6.9	U	6.9	6.9		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.7	U	1.7	1.8		1
10401	MCPA	94-74-6	520	U	520	520		1
10401	MCPP (Mecoprop)	93-65-2	230	U	230	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

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Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA. Due to interfering peaks on the chromatogram, the values reported for 2,4-DP and 2,4-DB represent the lowest reporting limits attainable.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.63		0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	2.6	U	2.6	2.6		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	2.1	U	2.1	2.1		1
01363	Delta BHC	319-86-8	0.31		0.039	0.18		1
01363	Dieldrin	60-57-1	0.68	U	0.68	0.68		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.62	U	0.62	0.62		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.46	U	0.46	0.46		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.20	U	0.20	0.20		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6		1

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Sample Description: **SL-077-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	2.4		0.36	1.8		1
10225	PCB-1260	11096-82-5	1.4	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.31	21.1		1
07914	Boron	7440-42-8	2.83	J	0.939	5.28		1
01650	Calcium	7440-70-2	3,660		6.47	21.1		1
01654	Iron	7439-89-6	25,000		4.97	21.1		1
01656	Lithium	7439-93-2	34.4		0.23	2.1		1
01657	Magnesium	7439-95-4	5,490		2.68	10.6		1
06958	Manganese	7439-96-5	298		0.0823	0.528		1
10145	Phosphorus	7723-14-0	517		0.591	10.6		1
01662	Potassium	7440-09-7	2,400		19.0	52.8		1
01667	Sodium	7440-23-5	90.4	J	39.4	106		1
07968	Strontium	7440-24-6	17.6		0.0654	0.528		1
06969	Tin	7440-31-5	2.62	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,370		0.802	2.11		2
10146	Zirconium	7440-67-7	1.35	J	0.886	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.215		0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.71		0.0633	0.422		2
06126	Barium	7440-39-3	97.9		0.114	0.422		2
06127	Beryllium	7440-41-7	0.636		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.130		0.0380	0.106		2
06131	Chromium	7440-47-3	24.4		0.127	0.422		2
06132	Cobalt	7440-48-4	6.67		0.0211	0.106		2
06133	Copper	7440-50-8	12.4		0.0697	0.422		2
06135	Lead	7439-92-1	6.50		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.538		0.0528	0.106		2
06139	Nickel	7440-02-0	15.7		0.106	0.422		2
06141	Selenium	7782-49-2	0.0944	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0576	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.332		0.0317	0.106		2
06148	Vanadium	7440-62-2	45.2		0.0232	0.106		2
06149	Zinc	7440-66-6	84.3		0.591	3.17		2

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Sample Description: **SL-077-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified	**Std. Units**			**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.37		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 03:56	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 05:23	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 03:05	John W Perkins	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-077-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

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S0705 SDG#: DE037-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/20/2010 17:44	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 01:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 04:58	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:17	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:41	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-077-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0705 SDG#: DE037-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 16:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 04:44	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 00:59	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.2	U	9.2	11		1.29
06192	Benzene	71-43-2	0.14	U	0.14	5.5		1.29
06192	Bromobenzene	108-86-1	0.18	U	0.18	5.5		1.29
06192	Bromochloromethane	74-97-5	0.46	U	0.46	5.5		1.29
06192	Bromodichloromethane	75-27-4	0.11	U	0.11	5.5		1.29
06192	Bromoform	75-25-2	0.55	U	0.55	5.5		1.29
06192	Bromomethane	74-83-9	0.35	U	0.35	5.5		1.29
06192	2-Butanone	78-93-3	1.7	U	1.7	11		1.29
06192	n-Butylbenzene	104-51-8	0.17	U	0.17	5.5		1.29
06192	sec-Butylbenzene	135-98-8	0.08	U	0.08	5.5		1.29
06192	tert-Butylbenzene	98-06-6	0.22	U	0.22	5.5		1.29
06192	Carbon Tetrachloride	56-23-5	0.19	U	0.19	5.5		1.29
06192	Chlorobenzene	108-90-7	0.15	U	0.15	5.5		1.29
06192	Chloroethane	75-00-3	0.18	U	0.18	5.5		1.29
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.41	U	0.41	5.5		1.29
06192	Chloroform	67-66-3	0.17	U	0.17	5.5		1.29
06192	Chloromethane	74-87-3	0.46	U	0.46	5.5		1.29
06192	2-Chlorotoluene	95-49-8	0.19	U	0.19	5.5		1.29
06192	4-Chlorotoluene	106-43-4	0.19	U	0.19	5.5		1.29
06192	Chlorotrifluoroethene	79-38-9	0.69	U	0.69	6.9		1.29
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.97	U	0.97	5.5		1.29
06192	Dibromochloromethane	124-48-1	0.28	U	0.28	5.5		1.29
06192	1,2-Dibromoethane	106-93-4	0.23	U	0.23	5.5		1.29
06192	Dibromomethane	74-95-3	0.33	U	0.33	5.5		1.29
06192	1,2-Dichlorobenzene	95-50-1	0.12	U	0.12	5.5		1.29
06192	1,3-Dichlorobenzene	541-73-1	0.17	U	0.17	5.5		1.29
06192	1,4-Dichlorobenzene	106-46-7	0.22	U	0.22	5.5		1.29
06192	Dichlorodifluoromethane	75-71-8	0.17	U	0.17	5.5		1.29
06192	1,1-Dichloroethane	75-34-3	0.14	U	0.14	5.5		1.29
06192	1,2-Dichloroethane	107-06-2	0.21	U	0.21	5.5		1.29
06192	1,1-Dichloroethene	75-35-4	0.54	U	0.54	5.5		1.29
06192	cis-1,2-Dichloroethene	156-59-2	0.26	U	0.26	5.5		1.29
06192	trans-1,2-Dichloroethene	156-60-5	0.17	U	0.17	5.5		1.29
06192	1,2-Dichloropropane	78-87-5	0.23	U	0.23	5.5		1.29
06192	1,3-Dichloropropane	142-28-9	0.11	U	0.11	5.5		1.29
06192	2,2-Dichloropropane	594-20-7	0.23	U	0.23	5.5		1.29
06192	1,1-Dichloropropene	563-58-6	0.18	U	0.18	5.5		1.29
06192	cis-1,3-Dichloropropene	10061-01-5	0.22	U	0.22	5.5		1.29
06192	trans-1,3-Dichloropropene	10061-02-6	0.23	U	0.23	5.5		1.29
06192	Ethylbenzene	100-41-4	0.08	U	0.08	5.5		1.29
06192	Freon 113	76-13-1	0.15	U	0.15	5.5		1.29
06192	Freon 133a	75-88-7	0.69	U	0.69	6.9		1.29
06192	Hexachlorobutadiene	87-68-3	0.19	U	0.19	5.5		1.29
06192	2-Hexanone	591-78-6	2.2	U	2.2	11		1.29
06192	Isopropylbenzene	98-82-8	0.08	U	0.08	5.5		1.29
06192	p-Isopropyltoluene	99-87-6	0.15	U	0.15	5.5		1.29
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.29	U	0.29	5.5		1.29
06192	4-Methyl-2-pentanone	108-10-1	0.54	U	0.54	11		1.29
06192	Methylene Chloride	75-09-2	1.5	J	0.33	5.5		1.29
06192	n-Propylbenzene	103-65-1	0.1	U	0.1	5.5		1.29

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Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.14	U	0.14	5.5		1.29
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.15	U	0.15	5.5		1.29
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.32	U	0.32	5.5		1.29
06192	Tetrachloroethene	127-18-4	0.28	U	0.28	5.5		1.29
06192	Toluene	108-88-3	0.11	U	0.11	5.5		1.29
06192	1,2,3-Trichlorobenzene	87-61-6	0.19	U	0.19	5.5		1.29
06192	1,2,4-Trichlorobenzene	120-82-1	0.25	U	0.25	5.5		1.29
06192	1,1,1-Trichloroethane	71-55-6	0.28	U	0.28	5.5		1.29
06192	1,1,2-Trichloroethane	79-00-5	0.37	U	0.37	5.5		1.29
06192	Trichloroethene	79-01-6	0.21	U	0.21	5.5		1.29
06192	Trichlorofluoromethane	75-69-4	0.40	U	0.40	5.5		1.29
06192	1,2,3-Trichloropropane	96-18-4	0.46	U	0.46	5.5		1.29
06192	1,2,4-Trimethylbenzene	95-63-6	0.55	U	0.55	5.5		1.29
06192	1,3,5-Trimethylbenzene	108-67-8	0.14	U	0.14	5.5		1.29
06192	Vinyl Chloride	75-01-4	0.28	U	0.28	5.5		1.29
06192	m+p-Xylene	179601-23-1	0.23	U	0.23	5.5		1.29
06192	o-Xylene	95-47-6	0.23	U	0.23	5.5		1.29
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.6	U	6.6	20		31.02
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	108	J	89.3	179		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1

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Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.8		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	14	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	9.0	J	6.4	19		1
10138	Chrysene	218-01-9	2.8		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44		6.4	19		1
10138	Fluoranthene	206-44-0	2.7		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.99	J	0.71	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.3	J	0.71	1.8		1
10138	Pyrene	129-00-0	2.1		0.71	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.6	U	2.6	13		305.62
	Reporting limits were raised due to sample foaming.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80	U	80	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U	54	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	320	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	320	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	54	U	54	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	54	U	54	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	54	U	54	160	10000000	1
10132	HMX	2691-41-0	130	U	130	400	10000000	1
10132	Nitrobenzene	98-95-3	54	U	54	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,200	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,200	10000000	1
10132	RDX	121-82-4	67	U	67	160	10000000	1
10132	Tetryl	479-45-8	82	U	82	160	10000000	1

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Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	54	U	54	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U	54	160	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	1.6	J	0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	200	J	81	270		1
10401	MCPP (Mecoprop)	93-65-2	130	J	80	270		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-T.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.056	U	0.056	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6		1
01363	p,p-DDD	72-54-8	1.1	U	1.1	1.1		1
01363	p,p-DDE	72-55-9	1.7	U	1.7	1.7		1
01363	p,p-DDT	50-29-3	1.6	U	1.6	1.6		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.61	U	0.61	0.61		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.16	U	0.16	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.46	U	0.46	0.46		1

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Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.16	U	0.16	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.29	U	0.29	0.29		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.16	U	0.16	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18		5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18		5
10225	Aroclor 5460	11126-42-4	9.7	J	5.4	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1		5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.1		5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.1		5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.1		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	73		1.8	9.1		5
10225	PCB-1260	11096-82-5	1.8	U	1.8	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		5.29	21.0		1
07914	Boron	7440-42-8	7.47		0.935	5.25		1
01650	Calcium	7440-70-2	23,100		6.44	21.0		1
01654	Iron	7439-89-6	24,800		4.95	21.0		1
01656	Lithium	7439-93-2	22.0		0.23	2.1		1

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LLI Sample # SW 6163880
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Account # 13013

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S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,880		2.67	10.5		1
06958	Manganese	7439-96-5	356		0.0820	0.525		1
10145	Phosphorus	7723-14-0	422		0.588	10.5		1
01662	Potassium	7440-09-7	3,390		18.9	52.5		1
01667	Sodium	7440-23-5	259		39.2	105		1
07968	Strontium	7440-24-6	96.6		0.0651	0.525		1
06969	Tin	7440-31-5	2.65	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,310		0.799	2.10		2
10146	Zirconium	7440-67-7	6.16		0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.470		0.0618	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.71		0.0618	0.412		2
06126	Barium	7440-39-3	179		0.111	0.412		2
06127	Beryllium	7440-41-7	0.865		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.490		0.0371	0.103		2
06131	Chromium	7440-47-3	53.6		0.124	0.412		2
06132	Cobalt	7440-48-4	9.05		0.0206	0.103		2
06133	Copper	7440-50-8	17.1		0.0680	0.412		2
06135	Lead	7439-92-1	13.3		0.0107	0.206		2
06138	Molybdenum	7439-98-7	10.7		0.0515	0.103		2
06139	Nickel	7440-02-0	22.8		0.103	0.412		2
06141	Selenium	7782-49-2	0.237	J	0.0412	0.412		2
06142	Silver	7440-22-4	0.0715	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.364		0.0309	0.103		2
06148	Vanadium	7440-62-2	59.0		0.0227	0.103		2
06149	Zinc	7440-66-6	147		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.161		0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.98	J	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1

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SSFL Area IV Collocated Soil Sampling
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S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	397	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 07:18	Laura M Krieger	1.29
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 05:44	Sara E Johnson	31.02
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:21	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:18	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/06/2011 09:49	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 04:21	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 05:55	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 20:20	Marie D John	305.62

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Sample Description: **SL-085-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:50	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 06:44	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:56	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 03:33	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 02:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 05:16	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103510008A	12/17/2010 22:57	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 08:47	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103510008A	12/17/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:21	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2

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S8505 SDG#: DE037-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 16:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 16:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 05:08	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/04/2011 01:23	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:13	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	3.4		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.8		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.8		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	14	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	3.2		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	4.0		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	3.6		0.73	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	2.9		0.68	1.9		1
10401	Dicamba	1918-00-9	0.54	J	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	400	U	400	400		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is

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Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.056	U	0.056	0.18		1
01363	Chlordane	57-74-9	5.0	U	5.0	5.0		1
01363	p,p-DDD	72-54-8	1.5	U	1.5	1.5		1
01363	p,p-DDE	72-55-9	1.4	U	1.4	1.4		1
01363	p,p-DDT	50-29-3	2.1	U	2.1	2.1		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.64	U	0.64	0.64		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.44	U	0.44	0.44		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.21	U	0.21	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.37	U	0.37	1.8		10
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide represent the lowest reporting limits attainable.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2		2
10225	Aroclor 5460	11126-42-4	5.1	J	2.2	7.2		2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.7		2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.7		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.7		2
10225	PCB-1248	12672-29-6	40		0.72	3.7		2
10225	PCB-1254	11097-69-1	16		0.72	3.7		2

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Sample Description: **SL-087-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	11		0.72	3.7		2
10225	PCB-1262	37324-23-5	0.72	U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72	U	0.72	3.7		2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,800		5.39	21.4		1
07914	Boron	7440-42-8	5.31	J	0.954	5.36		1
01650	Calcium	7440-70-2	18,800		6.57	21.4		1
01654	Iron	7439-89-6	25,400		5.05	21.4		1
01656	Lithium	7439-93-2	24.1		0.24	2.1		1
01657	Magnesium	7439-95-4	5,190		2.72	10.7		1
06958	Manganese	7439-96-5	311		0.0836	0.536		1
10145	Phosphorus	7723-14-0	451		0.600	10.7		1
01662	Potassium	7440-09-7	3,220		19.3	53.6		1
01667	Sodium	7440-23-5	186		40.0	107		1
07968	Strontium	7440-24-6	58.7		0.0664	0.536		1
06969	Tin	7440-31-5	2.61	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,360		0.814	2.14		2
10146	Zirconium	7440-67-7	3.44	J	0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.405		0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.58		0.0637	0.424		2
06126	Barium	7440-39-3	143		0.115	0.424		2
06127	Beryllium	7440-41-7	0.733		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.282		0.0382	0.106		2
06131	Chromium	7440-47-3	30.1		0.127	0.424		2
06132	Cobalt	7440-48-4	7.58		0.0212	0.106		2
06133	Copper	7440-50-8	14.8		0.0700	0.424		2
06135	Lead	7439-92-1	10.9		0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.19		0.0531	0.106		2
06139	Nickel	7440-02-0	19.7		0.106	0.424		2
06141	Selenium	7782-49-2	0.136	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.841		0.0127	0.106		2
06145	Thallium	7440-28-0	0.303		0.0318	0.106		2
06148	Vanadium	7440-62-2	54.1		0.0233	0.106		2
06149	Zinc	7440-66-6	133		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0304	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1

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Sample Description: **SL-087-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	388		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011	04:46	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010	06:29	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010	09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010	09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010	04:01	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	02:19	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	02:33	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010	06:49	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010	07:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-087-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8705 SDG#: DE037-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:24	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 16:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 05:32	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 01:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-087-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S8705 SDG#: DE037-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-095-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-095-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.2		0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.0		0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.6		0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	3.4		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.3	19		1
10138	Fluoranthene	206-44-0	3.2		0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.2	J	0.70	1.8		1
10138	Pyrene	129-00-0	2.9		0.70	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	3.9		0.65	1.8		1
10401	Dicamba	1918-00-9	0.55	J	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	530		80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-095-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.20	U	0.20	0.36		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.36		1
01363	Delta BHC	319-86-8	0.12	J	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	6.9		2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	6.9		2
10225	Aroclor 5460	11126-42-4	37		2.1	6.9		2
10225	PCB-1016	12674-11-2	0.69	U	0.69	3.6		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6		2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6		2
10225	PCB-1248	12672-29-6	0.69	U	0.69	3.6		2
10225	PCB-1254	11097-69-1	9.2		0.69	3.6		2
10225	PCB-1260	11096-82-5	5.2		0.69	3.6		2
10225	PCB-1262	37324-23-5	0.69	U	0.69	3.6		2
10225	PCB-1268	11100-14-4	0.69	U	0.69	3.6		2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-095-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.24	20.8		1
07914	Boron	7440-42-8	4.36	J	0.928	5.21		1
01650	Calcium	7440-70-2	6,280		6.39	20.8		1
01654	Iron	7439-89-6	21,900		4.91	20.8		1
01656	Lithium	7439-93-2	19.3		0.23	2.1		1
01657	Magnesium	7439-95-4	4,420		2.65	10.4		1
06958	Manganese	7439-96-5	314		0.0813	0.521		1
10145	Phosphorus	7723-14-0	441		0.584	10.4		1
01662	Potassium	7440-09-7	3,440		18.8	52.1		1
01667	Sodium	7440-23-5	106		38.9	104		1
07968	Strontium	7440-24-6	28.4		0.0646	0.521		1
06969	Tin	7440-31-5	1.04	U	1.04	10.4		1
06970	Titanium	7440-32-6	1,080		0.792	2.08		2
10146	Zirconium	7440-67-7	1.88	J	0.875	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.330		0.0607	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.12		0.0607	0.405		2
06126	Barium	7440-39-3	162		0.109	0.405		2
06127	Beryllium	7440-41-7	0.736		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.278		0.0364	0.101		2
06131	Chromium	7440-47-3	27.3		0.121	0.405		2
06132	Cobalt	7440-48-4	7.66		0.0202	0.101		2
06133	Copper	7440-50-8	14.9		0.0668	0.405		2
06135	Lead	7439-92-1	10.9		0.0105	0.202		2
06138	Molybdenum	7439-98-7	1.17		0.0506	0.101		2
06139	Nickel	7440-02-0	17.1		0.101	0.405		2
06141	Selenium	7782-49-2	0.159	J	0.0405	0.405		2
06142	Silver	7440-22-4	0.0526	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.348		0.0304	0.101		2
06148	Vanadium	7440-62-2	51.8		0.0223	0.101		2
06149	Zinc	7440-66-6	126		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.146		0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.21	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-095-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9505 SDG#: DE037-11

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	393	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.14	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011	05:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010	07:05	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010	09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010	09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010	04:28	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	02:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010	07:08	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010	07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010	01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010	20:52	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010	20:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010	20:52	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010	20:52	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010	20:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010	20:52	John P Hook	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-095-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9505 SDG#: DE037-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:28	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 17:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 05:56	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/04/2011 01:55	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9105 SDG#: DE037-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9105 SDG#: DE037-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	2.8		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	25		6.5	20		1
10138	Fluoranthene	206-44-0	1.8		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.74	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.73	1.8		1
10138	Pyrene	129-00-0	2.0		0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	120	U	120	270		1
10401	MCPP (Mecoprop)	93-65-2	230	U	230	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9105 SDG#: DE037-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.50	U	0.50	0.50		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.53		0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.19		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2		2
10225	Aroclor 5460	11126-42-4	2.8	J	2.2	7.2		2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.7		2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.7		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.7		2
10225	PCB-1248	12672-29-6	0.72	U	0.72	3.7		2
10225	PCB-1254	11097-69-1	38		0.72	3.7		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9105 SDG#: DE037-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.72	U	0.72	3.7		2
10225	PCB-1262	37324-23-5	0.72	U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72	U	0.72	3.7		2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.26	20.9		1
07914	Boron	7440-42-8	7.01		0.931	5.23		1
01650	Calcium	7440-70-2	15,700		6.41	20.9		1
01654	Iron	7439-89-6	29,400		9.86	41.9		2
01656	Lithium	7439-93-2	31.8		0.23	2.1		1
01657	Magnesium	7439-95-4	7,030		2.66	10.5		1
06958	Manganese	7439-96-5	350		0.0816	0.523		1
10145	Phosphorus	7723-14-0	518		0.586	10.5		1
01662	Potassium	7440-09-7	4,880		18.8	52.3		1
01667	Sodium	7440-23-5	204		39.0	105		1
07968	Strontium	7440-24-6	43.1		0.0649	0.523		1
06969	Tin	7440-31-5	2.86	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,560		0.795	2.09		2
10146	Zirconium	7440-67-7	3.18	J	0.879	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.437		0.0634	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.8		0.0634	0.423		2
06126	Barium	7440-39-3	175		0.114	0.423		2
06127	Beryllium	7440-41-7	1.01		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.271		0.0380	0.106		2
06131	Chromium	7440-47-3	50.2		0.127	0.423		2
06132	Cobalt	7440-48-4	12.3		0.0211	0.106		2
06133	Copper	7440-50-8	19.2		0.0697	0.423		2
06135	Lead	7439-92-1	15.2		0.0110	0.211		2
06138	Molybdenum	7439-98-7	1.31		0.0528	0.106		2
06139	Nickel	7440-02-0	25.9		0.106	0.423		2
06141	Selenium	7782-49-2	0.334	J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0585	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.531		0.0317	0.106		2
06148	Vanadium	7440-62-2	93.5		0.0232	0.106		2
06149	Zinc	7440-66-6	182		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0218	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.87	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9105 SDG#: DE037-12

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199			mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.47	J	0.22	1.1		1
	ASTM D1498			mV		mV	mV	mV	
01821	Oxidation Reduction Potential		n.a.	398		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
	SW-846 9045C modified			Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C		n.a.	8.37		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			%		%	%	%	
11624	28a Moisture Content by 160.3		n.a.	8.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011	05:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010	07:39	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010	09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010	09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010	04:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	03:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010	07:26	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010	07:30	Joseph S Feister	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9105 SDG#: DE037-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 03:32	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:32	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 17:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 06:20	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/04/2011 02:11	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S9105 SDG#: DE037-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.93
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.93
06192	Chloroform	67-66-3	0.13	J	0.12	4.0		0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.93
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.93
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.93
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.93
06192	Methylene Chloride	75-09-2	2.4	J	0.24	4.0		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.93

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Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.69
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	93.9		35.9	71.8		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1

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Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	4.0		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	1.7	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1

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Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	2.4		0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81	U	81	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U	54	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	320	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	320	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	54	U	54	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	54	U	54	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	54	U	54	160	10000000	1
10132	HMX	2691-41-0	130	U	130	400	10000000	1
10132	Nitrobenzene	98-95-3	54	U	54	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,200	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,200	10000000	1
10132	RDX	121-82-4	67	U	67	160	10000000	1
10132	Tetryl	479-45-8	82	U	82	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54	U	54	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U	54	160	10000000	1

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Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
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S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.3	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.61	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	J	110	540		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,600		5.42	21.6		1
07914	Boron	7440-42-8	4.64	J	0.959	5.39		1
01650	Calcium	7440-70-2	3,440		6.61	21.6		1
01654	Iron	7439-89-6	20,400		5.08	21.6		1
01656	Lithium	7439-93-2	19.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,910		2.74	10.8		1
06958	Manganese	7439-96-5	303		0.0841	0.539		1
10145	Phosphorus	7723-14-0	349		0.603	10.8		1
01662	Potassium	7440-09-7	2,660		19.4	53.9		1
01667	Sodium	7440-23-5	181		40.2	108		1
07968	Strontium	7440-24-6	18.7		0.0668	0.539		1
06969	Tin	7440-31-5	2.50	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,150		0.819	2.16		2
10146	Zirconium	7440-67-7	1.44	J	0.905	5.39		1

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Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0622	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.50		0.0622	0.414		2
06126	Barium	7440-39-3	119		0.112	0.414		2
06127	Beryllium	7440-41-7	0.612		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0875	J	0.0373	0.104		2
06131	Chromium	7440-47-3	21.3		0.124	0.414		2
06132	Cobalt	7440-48-4	7.07		0.0207	0.104		2
06133	Copper	7440-50-8	10.7		0.0684	0.414		2
06135	Lead	7439-92-1	6.10		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.780		0.0518	0.104		2
06139	Nickel	7440-02-0	12.8		0.104	0.414		2
06141	Selenium	7782-49-2	0.177	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0366	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.350		0.0311	0.104		2
06148	Vanadium	7440-62-2	45.3		0.0228	0.104		2
06149	Zinc	7440-66-6	89.1		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0131	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.82	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	391		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-003-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 07:40	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 06:04	Sara E Johnson	22.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:24	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 14:13	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 06:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 08:12	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 20:57	Marie D John	27.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:49	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 07:26	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 00:15	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 15:30	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 07:45	Lindsey K Lafferty	1

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Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0345 SDG#: DE037-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 22:52	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 14:46	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:35	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1

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Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0345 SDG#: DE037-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 18:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201B	01/05/2011 18:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 07:32	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 02:19	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.96
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.96
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.96
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.96
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.96
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.96
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.96
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.96
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.96
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.96
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.96
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.96
06192	Methylene Chloride	75-09-2	3.0	J	0.25	4.1		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.96

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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.96
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	97.1		17.9	35.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1

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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80	U	80	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U	54	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	320	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	320	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	54	U	54	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	54	U	54	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	54	U	54	160	10000000	1
10132	HMX	2691-41-0	130	U	130	400	10000000	1
10132	Nitrobenzene	98-95-3	54	U	54	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,200	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,200	10000000	1
10132	RDX	121-82-4	67	U	67	160	10000000	1
10132	Tetryl	479-45-8	82	U	82	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54	U	54	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U	54	160	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
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S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.34	21.2		1
07914	Boron	7440-42-8	2.87	J	0.944	5.31		1
01650	Calcium	7440-70-2	2,820		6.51	21.2		1
01654	Iron	7439-89-6	18,400		5.00	21.2		1
01656	Lithium	7439-93-2	20.9		0.23	2.1		1
01657	Magnesium	7439-95-4	3,670		2.70	10.6		1
06958	Manganese	7439-96-5	255		0.0828	0.531		1
10145	Phosphorus	7723-14-0	306		0.594	10.6		1
01662	Potassium	7440-09-7	2,360		19.1	53.1		1
01667	Sodium	7440-23-5	105	J	39.6	106		1
07968	Strontium	7440-24-6	10.9		0.0658	0.531		1
06969	Tin	7440-31-5	2.33	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,050		0.807	2.12		2
10146	Zirconium	7440-67-7	0.891	U	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0994	J	0.0637	0.212		2

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Sample Description: **SL-001-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
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14420 Albemarle Point Place
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S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.96	0.0637	0.424		2
06126	Barium	7440-39-3	89.2	0.115	0.424		2
06127	Beryllium	7440-41-7	0.715	0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0626 J	0.0382	0.106		2
06131	Chromium	7440-47-3	18.8	0.127	0.424		2
06132	Cobalt	7440-48-4	5.88	0.0212	0.106		2
06133	Copper	7440-50-8	6.80	0.0700	0.424		2
06135	Lead	7439-92-1	5.49	0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.760	0.0531	0.106		2
06139	Nickel	7440-02-0	10.5	0.106	0.424		2
06141	Selenium	7782-49-2	0.153 J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0190 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.418	0.0318	0.106		2
06148	Vanadium	7440-62-2	38.1	0.0233	0.106		2
06149	Zinc	7440-66-6	79.0	0.594	3.18		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2 J	0.86	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.79 J	0.21	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	412	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.26	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50		1

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Sample Description: **SL-001-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

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S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-001-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010	08:03	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	06:24	Sara E Johnson	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:44	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010	17:44	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010	17:30	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011	14:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011	06:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010	08:46	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010	14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010	09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010	09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010	21:33	Marie D John	23.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:48	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010	08:08	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010	00:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010	08:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010	07:30	Joseph S Feister	1

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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
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S0145 SDG#: DE037-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 23:06	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 10:17	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:39	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 18:18	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0145 SDG#: DE037-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201B	01/05/2011 18:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 07:56	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 02:35	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	35		6.8	8.2		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.85
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.85
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.85
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.85
06192	2-Butanone	78-93-3	5.6	J	1.2	8.2		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.85
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.85
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.85
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.85
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.85
06192	Methylene Chloride	75-09-2	1.5	J	0.24	4.1		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.85

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.85
06192	Toluene	108-88-3	0.11	J	0.08	4.1		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.85
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		22.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	83.9		40.2	80.3		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400		1

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		21.93
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90	U	90	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	75	U	75	180	10000000	1
10132	Tetryl	479-45-8	92	U	92	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	4,000		720	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.63	U	0.63	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,800		6.00	23.9		1
07914	Boron	7440-42-8	7.30		1.06	5.96		1
01650	Calcium	7440-70-2	19,000		7.31	23.9		1
01654	Iron	7439-89-6	34,500		11.2	47.7		2
01656	Lithium	7439-93-2	25.3		0.26	2.4		1
01657	Magnesium	7439-95-4	7,280		3.03	11.9		1
06958	Manganese	7439-96-5	398		0.0930	0.596		1
10145	Phosphorus	7723-14-0	413		0.668	11.9		1
01662	Potassium	7440-09-7	4,570		21.5	59.6		1
01667	Sodium	7440-23-5	254		44.5	119		1
07968	Strontium	7440-24-6	44.3		0.0740	0.596		1
06969	Tin	7440-31-5	2.80	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,470		0.907	2.39		2
10146	Zirconium	7440-67-7	4.76	J	1.00	5.96		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.559		0.0723	0.241		2

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Sample Description: **SL-001-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.2		0.0723	0.482		2
06126	Barium	7440-39-3	203		0.130	0.482		2
06127	Beryllium	7440-41-7	1.42		0.0193	0.120		2
06128	Cadmium	7440-43-9	0.212		0.0434	0.120		2
06131	Chromium	7440-47-3	55.4		0.145	0.482		2
06132	Cobalt	7440-48-4	13.7		0.0241	0.120		2
06133	Copper	7440-50-8	21.8		0.0795	0.482		2
06135	Lead	7439-92-1	13.0		0.0125	0.241		2
06138	Molybdenum	7439-98-7	1.12		0.0602	0.120		2
06139	Nickel	7440-02-0	28.4		0.120	0.482		2
06141	Selenium	7782-49-2	0.190	J	0.0482	0.482		2
06142	Silver	7440-22-4	0.0765	J	0.0145	0.120		2
06145	Thallium	7440-28-0	0.474		0.0361	0.120		2
06148	Vanadium	7440-62-2	101		0.0265	0.120		2
06149	Zinc	7440-66-6	115		0.675	3.61		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96	U	0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.61		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	433		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	17.0		0.50	0.50		1

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-001-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010	19:24	Laura M Krieger	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010	06:43	Sara E Johnson	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:38	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:44	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010	17:44	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010	17:35	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/06/2011	10:00	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011	06:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010	09:19	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010	14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010	09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010	09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010	22:09	Marie D John	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010	17:46	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010	08:51	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010	00:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010	08:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010	07:30	Joseph S Feister	1

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 23:21	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 11:02	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 03:42	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:42	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 18:32	Ashley M Adams	1

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Sample Description: **SL-001-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0191 SDG#: DE037-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201B	01/05/2011 18:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 08:20	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 03:07	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	43	J	19	190		1
04688	Aniline	62-53-3	190	U	190	570		1
04688	Anthracene	120-12-7	37	J	19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	400		19	190		1
04688	Benzo(a)pyrene	50-32-8	650		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	680		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	500		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	280		19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	24	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	490		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	120	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	420		19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	420		19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1

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Sample Description: **SED-032-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenanthrene	85-01-8	110	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	540		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	0.49	J	0.38	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.9	21		1
10138	Fluorene	86-73-7	2.0		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.9	J	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	2.4		0.76	1.9		1
10138	Naphthalene	91-20-3	6.3		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	30	U	30	30		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	1.9		1
10401	MCPA	94-74-6	1,100	U	1,100	1,100		1
10401	MCPP (Mecoprop)	93-65-2	250	U	250	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold							

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Sample Description: **SED-032-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4-DB. Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.35		0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	5.0	U	5.0	5.0		1
01363	p,p-DDD	72-54-8	2.4	U	2.4	2.4		1
01363	p,p-DDE	72-55-9	1.3	U	1.3	1.3		1
01363	p,p-DDT	50-29-3	2.4	U	2.4	2.4		1
01363	Delta BHC	319-86-8	0.19		0.041	0.19		1
01363	Dieldrin	60-57-1	0.47	U	0.47	0.47		1
01363	Endosulfan I	959-98-8	0.11	U	0.11	0.19		1
01363	Endosulfan II	33213-65-9	0.32	U	0.32	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.76	U	0.76	0.76		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.62	U	0.62	0.62		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.084	U	0.084	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.33	U	0.33	0.33		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6		2
10225	Aroclor 5460	11126-42-4	8.5		2.3	7.6		2

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Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.9		2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.9		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.9		2
10225	PCB-1248	12672-29-6	0.76	U	0.76	3.9		2
10225	PCB-1254	11097-69-1	18		0.76	3.9		2
10225	PCB-1260	11096-82-5	9.5		0.76	3.9		2
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9		2
10225	PCB-1268	11100-14-4	0.76	U	0.76	3.9		2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,300		5.64	22.4		1
07914	Boron	7440-42-8	4.97	J	0.998	5.61		1
01650	Calcium	7440-70-2	3,360		6.88	22.4		1
01654	Iron	7439-89-6	17,800		5.28	22.4		1
01656	Lithium	7439-93-2	19.4		0.25	2.2		1
01657	Magnesium	7439-95-4	4,130		2.85	11.2		1
06958	Manganese	7439-96-5	254		0.0875	0.561		1
10145	Phosphorus	7723-14-0	386		0.628	11.2		1
01662	Potassium	7440-09-7	2,790		20.2	56.1		1
01667	Sodium	7440-23-5	78.8	J	41.8	112		1
07968	Strontium	7440-24-6	18.3		0.0695	0.561		1
06969	Tin	7440-31-5	2.66	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,030		0.853	2.24		2
10146	Zirconium	7440-67-7	1.22	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.192	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.28		0.0673	0.449		2
06126	Barium	7440-39-3	112		0.121	0.449		2
06127	Beryllium	7440-41-7	0.616		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.249		0.0404	0.112		2
06131	Chromium	7440-47-3	25.4		0.135	0.449		2
06132	Cobalt	7440-48-4	6.30		0.0224	0.112		2
06133	Copper	7440-50-8	13.1		0.0740	0.449		2
06135	Lead	7439-92-1	25.0		0.0292	0.561		5
06138	Molybdenum	7439-98-7	0.707		0.0561	0.112		2
06139	Nickel	7440-02-0	17.6		0.112	0.449		2
06141	Selenium	7782-49-2	0.168	J	0.0449	0.449		2
06142	Silver	7440-22-4	1.39		0.0135	0.112		2
06145	Thallium	7440-28-0	0.298		0.0337	0.112		2
06148	Vanadium	7440-62-2	42.8		0.0247	0.112		2
06149	Zinc	7440-66-6	109		0.628	3.37		2

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Sample Description: **SED-032-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

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14420 Albemarle Point Place
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S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0148 J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	435	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 07:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 09:52	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 05:24	John W Perkins	1

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Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
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S3205 SDG#: DE037-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103490017A	12/20/2010 18:21	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 03:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 08:41	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:46	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 21:19	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/26/2010 07:22	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-032-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3205 SDG#: DE037-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 19:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 09:08	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 03:23	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SED-033-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.99	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	15		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	25		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	39		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	11		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	14		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	20		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	3.2		0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.4	19		1
10138	Fluoranthene	206-44-0	14		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	10		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.94	J	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.96	J	0.71	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	6.2		0.71	1.8		1
10138	Pyrene	129-00-0	15		0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	5.1		0.66	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	270	U	270	270		1
10401	MCPP (Mecoprop)	93-65-2	410	U	410	410		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB is detected in the method blank at a concentration of 1.2 ug/l. The sample was reextracted outside the sample hold time. The method blank in the

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Sample Description: **SED-033-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPP and MCPA represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.16	J	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.29	U	0.29	0.36		1
01363	p,p-DDE	72-55-9	0.11	U	0.11	0.36		1
01363	p,p-DDT	50-29-3	0.37	U	0.37	0.37		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.0		2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.0		2
10225	Aroclor 5460	11126-42-4	2.1	U	2.1	7.0		2
10225	PCB-1016	12674-11-2	0.70	U	0.70	3.6		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6		2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6		2
10225	PCB-1248	12672-29-6	0.70	U	0.70	3.6		2
10225	PCB-1254	11097-69-1	1.7	J	0.70	3.6		2
10225	PCB-1260	11096-82-5	2.1	J	0.70	3.6		2
10225	PCB-1262	37324-23-5	0.70	U	0.70	3.6		2
10225	PCB-1268	11100-14-4	0.70	U	0.70	3.6		2
	The stated QC limits are advisory only until sufficient data points							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
can be obtained to calculate statistical limits.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,300		5.13	20.4		1
07914	Boron	7440-42-8	3.23	J	0.908	5.10		1
01650	Calcium	7440-70-2	1,710		6.26	20.4		1
01654	Iron	7439-89-6	13,900		4.81	20.4		1
01656	Lithium	7439-93-2	14.9		0.22	2.0		1
01657	Magnesium	7439-95-4	3,090		2.59	10.2		1
06958	Manganese	7439-96-5	247		0.0796	0.510		1
10145	Phosphorus	7723-14-0	267		0.572	10.2		1
01662	Potassium	7440-09-7	1,810		18.4	51.0		1
01667	Sodium	7440-23-5	64.8	J	38.1	102		1
07968	Strontium	7440-24-6	9.87		0.0633	0.510		1
06969	Tin	7440-31-5	1.86	J	1.02	10.2		1
06970	Titanium	7440-32-6	759		0.388	1.02		1
10146	Zirconium	7440-67-7	0.857	U	0.857	5.10		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.286		0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.50		0.0624	0.416		2
06126	Barium	7440-39-3	133		0.112	0.416		2
06127	Beryllium	7440-41-7	0.782		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.150		0.0375	0.104		2
06131	Chromium	7440-47-3	36.8		0.125	0.416		2
06132	Cobalt	7440-48-4	7.49		0.0208	0.104		2
06133	Copper	7440-50-8	15.8		0.0687	0.416		2
06135	Lead	7439-92-1	15.0		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.691		0.0520	0.104		2
06139	Nickel	7440-02-0	21.6		0.104	0.416		2
06141	Selenium	7782-49-2	0.209	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.329		0.0125	0.104		2
06145	Thallium	7440-28-0	0.435		0.0312	0.104		2
06148	Vanadium	7440-62-2	58.0		0.0229	0.104		2
06149	Zinc	7440-66-6	118		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.0998		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	J	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-033-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3305 SDG#: DE037-17*

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	433	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.00	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011	07:42	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010	10:26	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010	09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010	09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010	06:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	03:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010	08:59	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010	07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010	01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3305 SDG#: DE037-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 11:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 19:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 09:32	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 03:39	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103482AA	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163885									
Acetone	6.7	U	6.7	8.0	ug/kg	183		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	100		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	91		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	97		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	95		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	72		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	133		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	97		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	92		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	77		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.22	J	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	72		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	101		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	90		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	54		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	99		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	100		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	92		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	87		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	98		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	78		61-134		
Methylene Chloride	1.3	J	0.24	4.0	ug/kg	99		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	97		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	96		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	76		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: B103501AA	Sample number(s): 6163886									
Acetone	6.7	U	6.7	8.0	ug/kg	189	181	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93	92	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	101	101	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	76	77	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	144	139	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100	99	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	99	99	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	94	95	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	102	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98	98	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	80	82	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	106	103	43-146	3	30
Chloroform	0.37	J	0.12	4.0	ug/kg	104	103	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	89	90	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	96	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	95	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	84	85	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	97	94	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	97	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	95	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	93	93	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	93	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	76	75	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103	102	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	100	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103	102	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	101	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104	103	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	100	99	80-120	1	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	101	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	104	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	94	96	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	95	94	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	100	61-126	1	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	85	85	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90	91	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	95	93	45-155	3	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	100	75-120	1	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	101	100	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	84	82	61-134	3	30
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	99	100	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101	101	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	97	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	98	97	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	97	95	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	98	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	101	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	92	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90	91	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103	101	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99	96	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	100	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	86	85	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	99	95	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	98	99	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	98	98	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88	88	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101	100	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	96	80-120	2	30
Batch number: E103491AA	Sample number(s): 6163875									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	100	107	60-132	6	30
Batch number: E103493AA	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	112	70-130	4	30
Batch number: Y103512AA	Sample number(s): 6163875									
Acetone	6	U	6.	20	ug/l	186	190	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	96	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	103	103	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	94	92	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	91	91	80-120	0	30
Bromoform	1	U	1.	5	ug/l	93	92	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	87	79	44-120	10	30
2-Butanone	3	U	3.	10	ug/l	125	130	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	100	100	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	107	106	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	96	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	82	75	49-129	9	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	102	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	98	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	83	81	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	103	80-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	73	76	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	105	108	66-120	3	30
Dibromochloromethane	1	U	1.	5	ug/l	94	94	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	72	47-120	6	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	96	95	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	100	103	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	93	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	90	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	95	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	87	87	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	112	115	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	98	99	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	116	120	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	102	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	95	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	97	97	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	98	100	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	110	108	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	97	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	107	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	98	97	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	94	92	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	105	104	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Batch number: 10349WAI026	Sample number(s): 6163875									
Acenaphthene	0.010	U	0.010	0.050	ug/l	99	103	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	106	109	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	106	109	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	102	107	72-114	5	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	101	104	64-115	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	108	108	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	94	96	68-125	2	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	102	106	72-122	4	30
Butylbenzylphthalate	0.076	J	0.050	1.0	ug/l	100	102	70-130	1	30
Di-n-butylphthalate	0.13	J	0.050	1.0	ug/l	107	113	70-130	5	30
Chrysene	0.010	U	0.010	0.050	ug/l	103	104	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	93	96	71-125	3	30
Diethylphthalate	0.063	J	0.050	1.0	ug/l	113	115	70-130	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	96	91	70-130	5	30
Bis(2-Ethylhexyl)phthalate	0.11	J	0.050	1.0	ug/l	114	123	70-130	8	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	108	110	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	106	108	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	94	96	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	105	107	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	95	97	75-115	2	30
Naphthalene	0.010	U	0.010	0.050	ug/l	100	102	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	84	87	70-130	3	30
Di-n-octylphthalate	0.084	J	0.050	1.0	ug/l	102	112	70-130	9	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	99	103	76-111	4	30
Pyrene	0.010	U	0.010	0.050	ug/l	102	106	69-118	3	30
Batch number: 10350WAB026	Sample number(s): 6163875									
Aniline	1	U	1.	5	ug/l	67	66	49-101	1	30
Benzidine	20	U	20.	60	ug/l	64	62	20-109	3	30
Benzoic acid	6	U	6.	15	ug/l	30	48	10-69	44*	30
Benzyl alcohol	5	U	5.	15	ug/l	79	91	66-97	14	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	86	107	82-117	22	30
Carbazole	1	U	1.	5	ug/l	92	110	81-114	18	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	89	112	70-123	22	30
4-Chloroaniline	1	U	1.	5	ug/l	51	58	42-124	14	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	89	109	74-124	20	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	90	105	77-108	16	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	105	62-127	13	30
2-Chloronaphthalene	2	U	2.	5	ug/l	77	81	54-132	5	30
2-Chlorophenol	1	U	1.	5	ug/l	91	109*	77-108	18	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	90	111	82-111	21	30
Dibenzofuran	1	U	1.	5	ug/l	91	111*	83-108	20	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	84	94	67-108	12	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	83	93	63-110	12	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	93	65-113	12	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	53	57	49-111	9	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	96	117*	80-109	20	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	117*	72-110	20	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	93	117	70-130	23	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	86	102	78-119	17	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	77	91	64-120	16	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	93	110	81-115	17	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	90	110	85-115	20	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	118*	78-116	21	30
Hexachlorobenzene	1	U	1.	5	ug/l	88	108	81-118	20	30
Hexachlorobutadiene	1	U	1.	5	ug/l	81	92	57-124	13	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	71	77	10-118	8	30
Hexachloroethane	1	U	1.	5	ug/l	80	91	52-113	13	30
Isophorone	1	U	1.	5	ug/l	91	114	74-117	22	30
2-Methylphenol	1	U	1.	5	ug/l	85	102*	64-101	18	30
4-Methylphenol	2	U	2.	5	ug/l	76	93	61-103	21	30
2-Nitroaniline	1	U	1.	5	ug/l	91	111	83-116	20	30
3-Nitroaniline	1	U	1.	5	ug/l	88	101	74-113	14	30
4-Nitroaniline	1	U	1.	5	ug/l	74	82	59-100	11	30
Nitrobenzene	1	U	1.	5	ug/l	90	104	75-109	14	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	1	U	1.	5	ug/l	91	108	86-120	18	30
4-Nitrophenol	10	U	10.	30	ug/l	44	53	16-78	19	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	89	108	69-110	19	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	91	111	67-136	20	30
Pentachlorophenol	3	U	3.	15	ug/l	75	84	53-110	12	30
Phenol	1	U	1.	5	ug/l	40	47	29-67	17	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	100	71-112	16	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	108*	79-107	19	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	93	110	81-113	17	30
Batch number: 10351SLB026	Sample number(s): 6163869-6163873,6163876-6163888									
Acenaphthene	17	U	17.	170	ug/kg	92		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	95		75-122		
Aniline	170	U	170.	500	ug/kg	60		10-107		
Anthracene	17	U	17.	170	ug/kg	94		76-112		
Benzidine	1,200	U	1,200.	3,300	ug/kg	45		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	85		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	86		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	81		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	87		67-125		
Benzoic acid	170	U	170.	500	ug/kg	97		10-154		
Benzyl alcohol	170	U	170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	103		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	34		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	67		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	83		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	54		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
Diethylphthalate	28	J	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91		79-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
bis(2-Ethylhexyl)phthalate	18	J	17.	330	ug/kg	103		75-117		
Fluoranthene	17	U	17.	170	ug/kg	96		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	90		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	79		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	72		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	80		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	82		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	93		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	88		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	95		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	99		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	72		35-106		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	89		78-111		
Batch number: 10351SLC026	Sample number(s): 6163869-6163873,6163876-6163888									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	86		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	87		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	94		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	85		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	97		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	92		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	90		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		70-130		
Bis(2-Ethylhexyl)phthalate	6.3	J	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	90		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	81		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	90		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		56-121		
Batch number: 10354SLC026	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	80		70-130		
Batch number: 10349A34A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	79	78	67-119	1	30
Batch number: 103550019A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	90	89	54-134	2	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	90	88	54-134	2	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	108		80-120		
HMX	130 U		130.	380	ug/kg	83		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	102		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	108		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	109		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	107		80-120		
PETN	1,000 U		1,000.	3,000	ug/kg	106		80-120		
RDX	63	U	63.	150	ug/kg	106		75-131		
Tetryl	77	U	77.	150	ug/kg	135		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	121		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	109		80-120		
Batch number: 103510021A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	100		80-126		
Batch number: 103490003A	Sample number(s): 6163875									
2,4-D	0.16	U	0.16	0.50	ug/l	112	108	45-128	4	30
Dalapon	0.25	U	0.25	1.3	ug/l	92	97	40-100	5	30
2,4-DB	0.30	U	0.30	1.0	ug/l	100	100	41-138	0	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	112	51-144	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	53	42	23-93	24	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	116	116	72-145	0	30
MCPA	300 U		300.	1,000	ug/l	92	72	69-129	24	30
MCPP	50	U	50.	200	ug/l	96	92	66-132	4	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	104	108	53-141	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	100	96	56-135	4	30
Batch number: 103510026A	Sample number(s): 6163878-6163883,6163887-6163888									
2,4-D	1.2	U	1.2	3.6	ug/kg	118		40-140		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dalapon	4.4	U	4.4	9.0	ug/kg	83		24-89		
2,4-DB	1.2	J	0.62	1.7	ug/kg	95		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	86		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		60-141		
MCPA	76	U	76.	250	ug/kg	96		34-113		
MCPP (Mecoprop)	160 J		75.	250	ug/kg	112		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	99		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	89		48-138		
Batch number: 103490017A	Sample number(s): 6163879,6163887									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 110040016A	Sample number(s): 6163884									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 103500016A	Sample number(s): 6163875									
Aldrin	0.0020	U	0.0020	0.010	ug/l	96	101	54-159	5	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	101	102	59-146	1	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	98	101	73-147	3	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	95	101	68-128	6	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	100	110	71-139	10	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	126	137*	66-130	8	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	85	90	53-126	6	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	103	113	76-148	10	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	100	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	78	83	68-128	6	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	90	95	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	95	100	71-142	5	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	85	52-132	0	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	105	110	68-139	5	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	90	105	69-146	15	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	93	102	57-126	9	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	98	102	73-156	4	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	91	97	52-133	6	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103500017A	Sample number(s): 6163875									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	58*	56*	75-125	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	102	100	68-119	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	112	112	68-121	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103510032A	Sample number(s): 6163869-6163873,6163876-6163888									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	60*	60*	75-125	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	101		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103550006A	Sample number(s): 6163878-6163883,6163887-6163888									
Aldrin	0.066	U	0.066	0.17	ug/kg	61		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	58		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	78		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	76		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	92		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	84		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	99		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	94		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	110		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	108		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	123		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	58		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	106		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	85		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	84		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	131*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103500005A	Sample number(s): 6163869-6163870,6163876									
Ethanol	100 U		100.	500	ug/kg	96		75-112		
Isopropanol	100 U		100.	500	ug/kg	93		75-125		
Methanol	110 J		100.	500	ug/kg	101		75-134		
Batch number: 103510008A	Sample number(s): 6163880									
Ethanol	100 U		100.	500	ug/kg	91		75-112		
Isopropanol	100 U		100.	500	ug/kg	87		75-125		
Methanol	100 U		100.	500	ug/kg	96		75-134		
Batch number: 103540002A	Sample number(s): 6163871-6163873,6163877,6163884-6163886									
Ethanol	100 U		100.	500	ug/kg	87		75-112		
Isopropanol	100 U		100.	500	ug/kg	90		75-125		
Methanol	100 U		100.	500	ug/kg	78		75-134		
Batch number: 103550026A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886									

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
Batch number: 103511026001A	Sample number(s): 6163869-6163874,6163876-6163888									
Antimony	0.0600	U	0.0600	0.200	mg/kg	107		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	95		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	98		82-118		
Cadmium	0.0360	U	0.0360	0.100	mg/kg	92		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	98		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	92		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	105		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	95		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	98		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	95		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	90		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	97		78-122		
Batch number: 103511026001B	Sample number(s): 6163869-6163874,6163876-6163888									
Selenium	0.0400	U	0.0400	0.400	mg/kg	99		79-122		
Batch number: 103511026001C	Sample number(s): 6163869-6163874,6163876-6163888									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		78-122		
Batch number: 103511026001D	Sample number(s): 6163869-6163874,6163876-6163888									
Barium	0.108	U	0.108	0.400	mg/kg	98		79-121		
Batch number: 103515708003	Sample number(s): 6163869-6163874,6163876-6163888									
Aluminum	5.03	U	5.03	20.0	mg/kg	93		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	106		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	1.63	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		79-121		
Tin	1.28	J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	102		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	100		80-120		
Batch number: 103515711002	Sample number(s): 6163869-6163874,6163876-6163888									
Mercury	0.0028	U	0.0028	0.0976	mg/kg	94		88-123		
Batch number: 103545713001	Sample number(s): 6163875									
Mercury	0.000050 U		0.00005 0	0.00020	mg/l	97		80-120		
Batch number: 103551848003	Sample number(s): 6163875									
Aluminum	0.0834	U	0.0834	0.200	mg/l	96	92	90-112	4	20
Boron	0.0138	U	0.0138	0.0500	mg/l	97	94	90-110	3	20
Calcium	0.0960	J	0.0702	0.200	mg/l	102	99	90-112	3	20
Iron	0.0522	U	0.0522	0.200	mg/l	102	98	90-112	4	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	100	98	80-120	2	20
Magnesium	0.0421	J	0.0172	0.100	mg/l	101	98	89-110	3	20

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Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	101	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	100	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	97	90-110	3	20
Tin	0.0098 U	0.0098	0.0200	mg/l	103	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	99	80-120	3	20
Batch number: 103556050002A	Sample number(s): 6163875								
Antimony	0.00030 U	0.00030	0.0010	mg/l	105	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	106	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	108	103	90-112	5	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	102	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	104	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	104	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	109	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	107	108	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	101	89-116	0	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	80-120	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	109	105	80-120	4	20
Batch number: 103556050002B	Sample number(s): 6163875								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	107	85-114	0	20
Batch number: 103556050002C	Sample number(s): 6163875								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	103	80-120	2	20
Batch number: 103556050002D	Sample number(s): 6163875								
Barium	0.00038 U	0.00038	0.0020	mg/l	107	106	88-113	1	20
Batch number: 10348113001A	Sample number(s): 6163875								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	110	112*	90-110	2	20
Batch number: 10350196902A	Sample number(s): 6163875								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	0	20
Batch number: 10352658701A	Sample number(s): 6163875								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	91	85-115	1	20
Batch number: 10361102201A	Sample number(s): 6163869,6163871-6163872,6163874								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	101		80-120		
Batch number: 10361102202A	Sample number(s): 6163870,6163876-6163877,6163880,6163884-6163886								
21a Cyanide by 9012B	0.13 U	0.13	0.50	mg/kg	105		80-120		
Batch number: 10364243201A	Sample number(s): 6163869-6163872,6163874,6163876-6163888								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11001001201A	Sample number(s): 6163869-6163872,6163874,6163876-6163882								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11001001201B	Sample number(s): 6163883-6163888								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	104		85-115		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11004004201A	Sample number(s): 6163869-6163872,6163874,6163876-6163882									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	109		90-110		
Batch number: 11004004201B	Sample number(s): 6163883-6163888									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	109		90-110		
Batch number: 10350039401A	Sample number(s): 6163869-6163871,6163874,6163876-6163881									
22a pH by 9045C						100		95-105		
Batch number: 10350039401B	Sample number(s): 6163882-6163888									
22a pH by 9045C						100		95-105		
Batch number: 10350182101A	Sample number(s): 6163869-6163871,6163874,6163876-6163881									
Oxidation Reduction Potential						100		98-102		
Batch number: 10350182101B	Sample number(s): 6163882-6163888									
Oxidation Reduction Potential						100		98-102		
Batch number: 10351020001A	Sample number(s): 6163875									
22b pH by 9040B						100		99-101		
Batch number: 10349162402B	Sample number(s): 6163878-6163879,6163881-6163883,6163887-6163888									
28a Moisture Content by 160.3						100		80-120		
Batch number: 10364162402B	Sample number(s): 6163869-6163874,6163876-6163877,6163880,6163884-6163886									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103482AA	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163885 UNSPK: 6163871								
Acetone	169	181	15-210	3	30				
Benzene	99	95	55-143	8	30				
Bromobenzene	87	77	43-139	16	30				
Bromochloromethane	97	91	60-137	10	30				
Bromodichloromethane	96	90	53-136	10	30				
Bromoform	85	81	38-124	9	30				
Bromomethane	72	64	42-168	16	30				
2-Butanone	114	120	37-163	1	30				
n-Butylbenzene	82	67	30-146	24	30				
sec-Butylbenzene	87	73	33-157	21	30				
tert-Butylbenzene	88	74	41-152	20	30				
Carbon Tetrachloride	102	96	45-153	10	30				
Chlorobenzene	92	83	49-135	15	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chloroethane	78	68	39-152	18	30				
2-Chloroethyl Vinyl Ether	84	89	32-139	2	30				
Chloroform	103	96	61-142	10	30				
Chloromethane	77	72	51-163	10	30				
2-Chlorotoluene	89	77	42-146	18	30				
4-Chlorotoluene	88	75	39-145	19	30				
Chlorotrifluoroethene	104	104	70-130	2	30				
1,2-Dibromo-3-chloropropane	79	77	30-139	7	30				
Dibromochloromethane	93	88	51-128	10	30				
1,2-Dibromoethane	88	86	54-129	6	30				
Dibromomethane	94	90	57-130	8	30				
1,2-Dichlorobenzene	83	71	36-133	19	30				
1,3-Dichlorobenzene	81	69	34-134	19	30				
1,4-Dichlorobenzene	82	70	35-136	19	30				
Dichlorodifluoromethane	53	50	26-151	11	30				
1,1-Dichloroethane	101	96	63-142	9	30				
1,2-Dichloroethane	98	94	68-131	8	30				
1,1-Dichloroethene	101	97	61-149	7	30				
cis-1,2-Dichloroethene	98	93	60-136	9	30				
trans-1,2-Dichloroethene	99	92	59-142	11	30				
1,2-Dichloropropane	98	93	62-135	9	30				
1,3-Dichloropropane	94	90	58-129	8	30				
2,2-Dichloropropane	96	92	53-147	8	30				
1,1-Dichloropropene	97	93	54-145	8	30				
cis-1,3-Dichloropropene	85	83	51-131	6	30				
trans-1,3-Dichloropropene	87	83	49-129	8	30				
Ethylbenzene	92	83	44-141	15	30				
Freon 113	102	95	56-156	11	30				
Freon 133a	90	94	70-130	6	30				
Hexachlorobutadiene	65	51	10-155	28	30				
2-Hexanone	76	80	32-160	0	30				
Isopropylbenzene	89	78	38-144	17	30				
p-Isopropyltoluene	85	71	29-152	21	30				
Methyl Tertiary Butyl Ether	88	87	55-129	4	30				
4-Methyl-2-pentanone	66	70	46-139	3	30				
Methylene Chloride	99	87	61-141	16	30				
n-Propylbenzene	92	80	39-157	17	30				
Styrene	89	79	35-134	16	30				
1,1,1,2-Tetrachloroethane	97	87	52-130	15	30				
1,1,2,2-Tetrachloroethane	90	87	40-152	7	30				
Tetrachloroethene	94	84	42-149	14	30				
Toluene	97	90	50-146	11	30				
1,2,3-Trichlorobenzene	60	50	10-140	21	30				
1,2,4-Trichlorobenzene	61	50	10-136	24	30				
1,1,1-Trichloroethane	101	95	64-142	9	30				
1,1,2-Trichloroethane	93	89	54-139	9	30				
Trichloroethene	95	90	53-144	9	30				
Trichlorofluoromethane	88	81	47-163	12	30				
1,2,3-Trichloropropane	90	88	45-154	5	30				
1,2,4-Trimethylbenzene	89	76	37-149	19	30				
1,3,5-Trimethylbenzene	89	77	38-150	18	30				
Vinyl Chloride	78	74	50-154	9	30				
m+p-Xylene	93	82	44-137	16	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
o-Xylene	88	78	42-137	16	30				
Batch number: B103501AA	Sample number(s): 6163886 UNSPK: P164946								
Acetone	176		15-210						
Benzene	108		55-143						
Bromobenzene	92		43-139						
Bromochloromethane	98		60-137						
Bromodichloromethane	99		53-136						
Bromoform	87		38-124						
Bromomethane	80		42-168						
2-Butanone	125		37-163						
n-Butylbenzene	100		30-146						
sec-Butylbenzene	100		33-157						
tert-Butylbenzene	94		41-152						
Carbon Tetrachloride	108		45-153						
Chlorobenzene	99		49-135						
Chloroethane	86		39-152						
2-Chloroethyl Vinyl Ether	90		32-139						
Chloroform	106		61-142						
Chloromethane	101		51-163						
2-Chlorotoluene	97		42-146						
4-Chlorotoluene	97		39-145						
1,2-Dibromo-3-chloropropane	78		30-139						
Dibromochloromethane	94		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	97		57-130						
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	92		34-134						
1,4-Dichlorobenzene	93		35-136						
Dichlorodifluoromethane	83		26-151						
1,1-Dichloroethane	108		63-142						
1,2-Dichloroethane	103		68-131						
1,1-Dichloroethene	114		61-149						
cis-1,2-Dichloroethene	105		60-136						
trans-1,2-Dichloroethene	109		59-142						
1,2-Dichloropropane	104		62-135						
1,3-Dichloropropane	97		58-129						
2,2-Dichloropropane	101		53-147						
1,1-Dichloropropene	108		54-145						
cis-1,3-Dichloropropene	91		51-131						
trans-1,3-Dichloropropene	88		49-129						
Ethylbenzene	101		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	88		10-155						
2-Hexanone	78		32-160						
Isopropylbenzene	100		38-144						
p-Isopropyltoluene	99		29-152						
Methyl Tertiary Butyl Ether	93		55-129						
4-Methyl-2-pentanone	68		46-139						
Methylene Chloride	101		61-141						
n-Propylbenzene	104		39-157						
Styrene	99		35-134						
1,1,1,2-Tetrachloroethane	99		52-130						

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2,2-Tetrachloroethane	87		40-152						
Tetrachloroethene	101		42-149						
Toluene	104		50-146						
1,2,3-Trichlorobenzene	80		10-140						
1,2,4-Trichlorobenzene	81		10-136						
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	95		54-139						
Trichloroethene	103		53-144						
Trichlorofluoromethane	94		47-163						
1,2,3-Trichloropropane	85		45-154						
1,2,4-Trimethylbenzene	98		37-149						
1,3,5-Trimethylbenzene	99		38-150						
Vinyl Chloride	91		50-154						
m+p-Xylene	102		44-137						
o-Xylene	96		42-137						
Batch number: E103493AA	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871								
1,4-Dioxane	104	95	70-130	9	30				
Batch number: 10351SLB026	Sample number(s): 6163869-6163873,6163876-6163888 UNSPK: 6163871								
Acenaphthene	96	83	75-115	15	30				
Acenaphthylene	98	85	49-126	15	30				
Aniline	58	44	14-114	27	30				
Anthracene	96	85	75-115	13	30				
Benzidine	38	23*	35-141	46*	30				
Benzo(a)anthracene	94	83	65-122	12	30				
Benzo(a)pyrene	87	75	57-126	15	30				
Benzo(b)fluoranthene	88	69	59-125	24	30				
Benzo(g,h,i)perylene	82	72	59-127	14	30				
Benzo(k)fluoranthene	89	82	56-132	8	30				
Benzoic acid	63	47	10-173	29	30				
Benzyl alcohol	97	88	55-123	10	30				
4-Bromophenyl-phenylether	91	80	67-129	13	30				
Butylbenzylphthalate	106	89	73-134	18	30				
Di-n-butylphthalate	101	86	67-123	16	30				
Carbazole	98	86	64-120	13	30				
4-Chloro-3-methylphenol	96	85	53-130	12	30				
4-Chloroaniline	43	37	23-95	14	30				
bis(2-Chloroethoxy)methane	93	84	54-117	10	30				
bis(2-Chloroethyl)ether	95	85	60-116	11	30				
bis(2-Chloroisopropyl)ether	98	88	55-142	11	30				
2-Chloronaphthalene	94	83	50-141	12	30				
2-Chlorophenol	97	88	73-121	10	30				
4-Chlorophenyl-phenylether	95	79	64-119	17	30				
Chrysene	98	85	62-128	14	30				
Dibenz(a,h)anthracene	83	73	65-125	13	30				
Dibenzofuran	97	84	71-112	14	30				
1,2-Dichlorobenzene	88	81	66-108	8	30				
1,3-Dichlorobenzene	85	78	63-109	9	30				
1,4-Dichlorobenzene	87	78	53-113	10	30				
3,3'-Dichlorobenzidine	37	32	25-123	13	30				
2,4-Dichlorophenol	99	88	78-117	12	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylphthalate	98	84	66-118	15	30				
2,4-Dimethylphenol	98	87	56-130	12	30				
3,5-Dimethylphenol	101	91	70-130	10	30				
Dimethylphthalate	97	83	64-118	16	30				
4,6-Dinitro-2-methylphenol	78	62	10-148	22	30				
2,4-Dinitrophenol	53	37	20-143	35*	30				
2,4-Dinitrotoluene	97	84	57-114	15	30				
2,6-Dinitrotoluene	97	82	69-123	17	30				
1,2-Diphenylhydrazine	103	90	71-129	14	30				
bis(2-Ethylhexyl)phthalate	103	88	63-122	15	30				
Fluoranthene	98	86	59-122	13	30				
Fluorene	97	84	60-125	14	30				
Hexachlorobenzene	92	80	61-111	14	30				
Hexachlorobutadiene	81	73	62-120	10	30				
Hexachlorocyclopentadiene	72	61	10-153	17	30				
Hexachloroethane	84	74	57-109	13	30				
Indeno(1,2,3-cd)pyrene	83	72	61-126	14	30				
Isophorone	96	85	51-118	12	30				
1-Methylnaphthalene	94	85	73-112	10	30				
2-Methylnaphthalene	87	79	76-114	10	30				
2-Methylphenol	102	89	47-142	13	30				
4-Methylphenol	97	85	55-126	13	30				
Naphthalene	91	81	72-116	11	30				
2-Nitroaniline	96	83	67-125	15	30				
3-Nitroaniline	90	79	59-122	13	30				
4-Nitroaniline	74	63	52-112	16	30				
Nitrobenzene	92	83	51-114	11	30				
2-Nitrophenol	89	78	74-115	13	30				
4-Nitrophenol	92	77	39-133	17	30				
N-Nitroso-di-n-propylamine	95	84	60-116	12	30				
N-Nitrosodimethylamine	94	85	47-116	10	30				
N-Nitrosodiphenylamine	97	86	86-145	13	30				
Di-n-octylphthalate	104	85	56-126	20	30				
Pentachlorophenol	69	59	17-149	17	30				
Phenanthrene	97	84	65-125	14	30				
Phenol	95	85	58-126	11	30				
Pyrene	101	87	51-151	16	30				
1,2,4-Trichlorobenzene	87	79	72-115	9	30				
2,4,5-Trichlorophenol	91	78	34-139	16	30				
2,4,6-Trichlorophenol	94	77	49-140	20	30				
Batch number: 10351SLC026	Sample number(s): 6163869-6163873,6163876-6163888 UNSPK: 6163871								
Acenaphthene	84	87	63-105	3	30				
Acenaphthylene	90	95	55-126	5	30				
Anthracene	94	97	46-136	3	30				
Benzo(a)anthracene	90	93	39-144	3	30				
Benzo(a)pyrene	87	92	34-156	5	30				
Benzo(b)fluoranthene	102	105	43-155	3	30				
Benzo(g,h,i)perylene	47	51	33-141	8	30				
Benzo(k)fluoranthene	93	96	42-144	3	30				
Butylbenzylphthalate	104	103	73-140	1	30				
Di-n-butylphthalate	103	105	78-160	2	30				
Chrysene	90	93	29-156	3	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenz(a,h)anthracene	56	60	41-130	5	30				
Diethylphthalate	107	112	87-131	5	30				
Dimethylphthalate	96	100	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	91	90	39-167	1	30				
Fluoranthene	101	104	26-166	3	30				
Fluorene	92	95	45-121	3	30				
Indeno(1,2,3-cd)pyrene	54	57	21-143	5	30				
1-Methylnaphthalene	86	88	72-123	2	30				
2-Methylnaphthalene	81	82	28-121	1	30				
Naphthalene	82	84	61-102	1	30				
N-Nitrosodimethylamine	79	80	48-113	1	30				
Di-n-octylphthalate	115	115	40-192	1	30				
Phenanthrene	86	87	12-165	1	30				
Pyrene	84	88	15-153	5	30				
Batch number: 10354SLC026	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871								
N-Nitrosodimethylamine	76	66*	70-130	13	30				
Batch number: 10349A34A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871								
9a TPH by EPA 8015B Gas C5-C12	65	66	39-118	0	30				
Batch number: 103550019A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871								
4-Amino-2,6-Dinitrotoluene	106	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	105	80-137	0	50				
1,3-Dinitrobenzene	103	103	38-166	1	50				
2,4-Dinitrotoluene	100	101	80-131	0	50				
2,6-Dinitrotoluene	107	107	80-127	0	50				
HMX	81	83	63-128	2	50				
Nitrobenzene	100	100	80-125	0	50				
Nitroglycerin	94	93	80-120	0	50				
2-Nitrotoluene	106	105	80-122	1	50				
3-Nitrotoluene	107	106	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	108	107	80-121	0	50				
RDX	97	99	75-129	2	50				
Tetryl	131	135	55-174	3	50				
1,3,5-Trinitrobenzene	118	119	82-126	0	50				
2,4,6-Trinitrotoluene	106	107	82-130	1	50				
Batch number: 103510021A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871								
17a Formaldehyde by 8315A	97	99	80-120	2	50				
Batch number: 103510026A	Sample number(s): 6163878-6163883,6163887-6163888 UNSPK: 6163878								
2,4-D	140	79	28-161	56*	35				
Dalapon	47	100*	12-86	72*	50				
2,4-DB	188*	166	20-170	12	50				
Dicamba	5*	5*	33-120	0	50				
Dinoseb	41	44	1-44	8	35				
2,4-DP (Dichlorprop)	124	115	55-141	7	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
MCPA	232*	199*	31-184	15	50				
MCPP (Mecoprop)	102	89	16-174	10	50				
2,4,5-T	40	51	25-132	24	35				
2,4,5-TP	107	102	10-183	5	35				
Batch number: 103490017A	Sample number(s): 6163879,6163887 UNSPK: P162864								
6a Perchlorate EPA 6850	103	107	80-120	4	20				
Batch number: 110040016A	Sample number(s): 6163884 UNSPK: P167468								
6a Perchlorate EPA 6850	110	110	80-120	0	20				
Batch number: 103510032A	Sample number(s): 6163869-6163873,6163876-6163888 UNSPK: 6163871								
PCB-1016	102	111	29-146	9	50				
PCB-1260	114	115	39-149	1	50				
Batch number: 103550006A	Sample number(s): 6163878-6163883,6163887-6163888 UNSPK: P166190								
Aldrin	71	77	16-126	9	50				
Alpha BHC	88	94	10-129	7	50				
Beta BHC	84	100	14-147	17	50				
Gamma BHC - Lindane	94	100	10-140	6	50				
p,p-DDD	76	68	16-163	12	50				
p,p-DDE	106	111	18-161	4	50				
p,p-DDT	101	104	10-176	3	50				
Delta BHC	88	94	23-140	7	50				
Dieldrin	73	78	19-154	8	50				
Endosulfan I	76	79	16-137	4	50				
Endosulfan II	76	81	28-154	6	50				
Endosulfan Sulfate	133	86	21-160	43	50				
Endrin	95	86	11-149	10	50				
Endrin Aldehyde	47	73	10-148	43*	35				
Endrin Ketone	102	92	22-165	10	50				
Heptachlor	106	112	13-126	6	50				
Heptachlor Epoxide	77	81	13-157	4	50				
Methoxychlor	96	108	32-147	12	50				
Batch number: 103500005A	Sample number(s): 6163869-6163870,6163876 UNSPK: P163871								
Ethanol	83	83	24-143	0	20				
Isopropanol	84	82	75-125	3	20				
Methanol	74	86	45-136	14	20				
Batch number: 103510008A	Sample number(s): 6163880 UNSPK: 6163880								
Ethanol	81	72	24-143	12	20				
Isopropanol	86	84	75-125	2	20				
Methanol	90	80	45-136	12	20				
Batch number: 103540002A	Sample number(s): 6163871-6163873,6163877,6163884-6163886 UNSPK: 6163871								
Ethanol	82	84	24-143	3	20				
Isopropanol	84	85	75-125	1	20				
Methanol	75	86	45-136	14	20				
Batch number: 103550026A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871								
m-Terphenyl	90	88	75-125	3	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
o-Terphenyl	93	91	75-125	2	20				
p-Terphenyl	95	93	75-125	2	20				
Batch number: 103511026001A	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Antimony	51*	58*	75-125	11	20	0.241	0.146 J	49* (1)	20
Arsenic	140*	155*	75-125	4	20	6.09	7.02	14	20
Beryllium	114	108	75-125	1	20	0.848	0.852	0	20
Cadmium	129*	138*	75-125	8	20	0.0957 J	0.106	10 (1)	20
Chromium	100	97	75-125	0	20	33.8	36.0	6	20
Cobalt	99	108	75-125	9	20	7.99	8.43	5	20
Copper	96	100	75-125	3	20	10.6	11.4	8	20
Lead	92	67*	75-125	7	20	8.37	8.40	0	20
Nickel	100	102	75-125	1	20	15.1	16.4	8	20
Silver	122	130*	75-125	9	20	0.0302 J	0.0232 J	26* (1)	20
Thallium	112	118	75-125	4	20	0.320	0.325	1 (1)	20
Vanadium	121 (2)	80 (2)	75-125	5	20	67.8	71.1	5	20
Zinc	98 (2)	152 (2)	75-125	7	20	72.0	79.8	10	20
Batch number: 103511026001B	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Selenium	107	114	75-125	7	20	0.265 J	0.235 J	12 (1)	20
Batch number: 103511026001C	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Molybdenum	118	133*	75-125	14	20	0.458	0.573	22* (1)	20
Batch number: 103511026001D	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Barium	63 (2)	102 (2)	75-125	3	20	114	123	8	20
Batch number: 103515708003	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Aluminum	1450 (2)	1167 (2)	75-125	2	20	21,000	18,500	13	20
Boron	94	93	84-115	2	20	6.30	5.83	8 (1)	20
Calcium	-144 (2)	-221 (2)	75-125	5	20	6,500	5,640	14	20
Iron	483 (2)	835 (2)	75-125	1	20	26,200	25,400	3	20
Lithium	96	95	82-114	2	20	25.7	22.1	15	20
Magnesium	-242 (2)	-219 (2)	75-125	1	20	6,230	5,230	18	20
Manganese	167 (2)	180 (2)	75-125	1	20	343	345	1	20
Phosphorus	54*	108	75-125	12	20	371	379	2	20
Potassium	134*	101	75-125	8	20	3,220	2,900	10	20
Sodium	93	93	75-125	1	20	175	156	12 (1)	20
Strontium	96	96	75-115	0	20	28.5	26.1	9	20
Tin	94	93	80-110	2	20	2.03 J	2.06 J	2 (1)	20
Titanium	528 (2)	467 (2)	75-125	4	20	1,090	1,230	12	20
Zirconium	94	94	75-125	1	20	3.38 J	4.05 J	18 (1)	20
Batch number: 103515711002	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Mercury	95	96	65-135	3	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 10361102201A	Sample number(s): 6163869,6163871-6163872,6163874 UNSPK: 6163871 BKG: 6163871								
21a Cyanide by 9012B	109		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 10361102202A	Sample number(s): 6163870,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163885								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
	BKG: 6163885										
21a Cyanide by 9012B	100		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 10364243201A	Sample number(s): 6163869-6163872,6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871										
3a Cr VI by EPA 7199	99		75-125			0.23	J	0.31	J	32* (1)	20
Batch number: 11001001201A	Sample number(s): 6163869-6163872,6163874,6163876-6163882 UNSPK: 6163871 BKG: 6163871										
7a Perchlorate EPA 314.0	93		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11001001201B	Sample number(s): 6163883-6163888 UNSPK: 6163883 BKG: 6163883										
7a Perchlorate EPA 314.0	95		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11004004201A	Sample number(s): 6163869-6163872,6163874,6163876-6163882 UNSPK: 6163871 BKG: 6163871										
11a Anions by 300.0 - Fluoride	83		80-120			2.9		2.7		7 (1)	20
11a Anions by 300.0 - Nitrate	152*		80-120			11.5		10.3		11	20
Batch number: 11004004201B	Sample number(s): 6163883-6163888 UNSPK: 6163883 BKG: 6163883										
11a Anions by 300.0 - Fluoride	84		80-120			3.7		3.5		5 (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			2.1		2.0		8 (1)	20
Batch number: 10350039401A	Sample number(s): 6163869-6163871,6163874,6163876-6163881 BKG: 6163871										
22a pH by 9045C						8.16		8.16		0	1
Batch number: 10350039401B	Sample number(s): 6163882-6163888 BKG: P164622										
22a pH by 9045C						8.38		8.39		0	1
Batch number: 10350182101A	Sample number(s): 6163869-6163871,6163874,6163876-6163881 BKG: 6163871										
Oxidation Reduction Potential						399		394		1	6
Batch number: 10350182101B	Sample number(s): 6163882-6163888 BKG: P164622										
Oxidation Reduction Potential						414		419		1	6
Batch number: 10351020001A	Sample number(s): 6163875 BKG: P165990										
22b pH by 9040B						6.8		6.8		0	1
Batch number: 10349162402B	Sample number(s): 6163878-6163879,6163881-6163883,6163887-6163888 BKG: 6163881										
28a Moisture Content by 160.3						8.5		8.8		4	20
Batch number: 10364162402B	Sample number(s): 6163869-6163874,6163876-6163877,6163880,6163884-6163886 BKG: 6163871										
28a Moisture Content by 160.3						11.4		11.7		3	20
28a Moisture Content by 160.3						11.4		11.7		3	20
28a Moisture Content by 160.3						11.4		11.7		3	20

Surrogate Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6163869	106	102	97	92
6163870	105	100	99	88
6163871	107	108	96	93
6163872	100	100	102	98
6163873	101	103	101	98
6163876	104	101	97	91
6163877	104	100	97	92
6163880	104	101	100	88
6163884	105	102	97	93
6163885	104	100	98	92
Blank	104	102	96	92
LCS	101	105	100	100
MS	100	100	102	98
MSD	101	103	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103501AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6163886	105	105	98	93
Blank	104	101	97	93
LCS	100	103	99	100
LCSD	99	102	100	100
MS	100	97	102	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103491AA

	Toluene-d8
6163875	102
Blank	101
LCS	101
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103493AA

	Toluene-d8
6163869	101
6163870	100
6163871	100
6163872	101
6163873	100
6163876	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Surrogate Quality Control

6163877	101
6163880	100
6163884	100
6163885	101
6163886	99
Blank	99
LCS	99
LCSD	101
MS	101
MSD	100

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6163875	98	96	102	98
Blank	100	98	101	99
LCS	100	101	104	103
LCSD	97	97	103	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10349WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163875	125	90	102
Blank	101	97	108
LCS	103	93	99
LCSD	108	96	102
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10350WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163875	52	34	85	81	82	79
Blank	53	36	81	84	81	83
LCS	59	40	86	85	86	83
LCSD	71	48	103	102	105	99
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10351SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163869	95	91	80	83	84	81
6163870	88	85	73	79	79	80
6163871	97	93	85	86	87	87
6163872	95	89	84	85	87	86
6163873	86	82	73	79	77	75
6163876	98	93	77	85	84	85
6163877	98	95	79	88	86	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Surrogate Quality Control

6163878	92	89	76	82	81	80
6163879	93	90	77	82	83	81
6163880	96	93	73	84	85	82
6163881	92	89	74	81	84	80
6163882	91	89	73	82	85	78
6163883	84	81	68	77	78	76
6163884	95	92	78	85	89	85
6163885	92	89	75	85	87	81
6163886	91	89	72	82	82	83
6163887	93	91	78	86	88	82
6163888	96	94	81	88	88	87
Blank	91	90	79	85	85	81
LCS	91	88	81	85	85	82
MS	95	89	84	85	87	86
MSD	86	82	73	79	77	75
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10351SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163869	93	87	107
6163870	89	87	90
6163871	91	84	90
6163872	91	83	87
6163873	93	87	88
6163876	87	82	88
6163877	100	88	98
6163878	100	90	97
6163879	98	89	93
6163880	100	89	92
6163881	100	90	108
6163882	97	85	90
6163883	102	92	98
6163884	103	89	96
6163885	100	89	97
6163886	97	85	94
6163887	104	90	98
6163888	102	90	101
Blank	95	87	98
LCS	92	85	94
MS	91	83	87
MSD	93	87	88
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10354SLC026

	N-Nitrosodimethylamine-d6
6163869	106
6163870	110
6163871	101
6163872	101
6163873	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Surrogate Quality Control

6163876	115
6163877	105
6163880	73
6163884	103
6163885	100
6163886	120
Blank	118
LCS	118
MS	101
MSD	97

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10349A34A

	Trifluorotoluene-F
6163869	85
6163870	80
6163871	83
6163872	80
6163873	79
6163876	79
6163877	86
6163880	105
6163884	86
6163885	85
6163886	86
Blank	98
LCS	102
LCSD	99
MS	80
MSD	79

Limits: 61-122

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103490003A

	2,4-Dichlorophenylacetic acid
6163875	87
Blank	86
LCS	96
LCSD	112

Limits: 35-144

Analysis Name: 12b Pesticides by 8081A
Batch number: 103500016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6163875	103	69
Blank	103	97
LCS	99	86
LCSD	104	91

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Surrogate Quality Control

Limits: 52-141 40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103500017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6163875	119	93
Blank	123	119
LCS	117	114
LCSD	120	116

Limits: 30-150 45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103510021A

	Butyraldehyde
6163869	111
6163870	102
6163871	108
6163872	105
6163873	104
6163876	90
6163877	110
6163880	106
6163884	97
6163885	105
6163886	103
Blank	100
LCS	105
MS	105
MSD	104

Limits: 64-126

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103510026A

	2,4-Dichlorophenylacetic acid
6163878	116
6163879	114
6163880	89
6163881	101
6163882	108
6163883	96
6163887	137
6163888	99
Blank	113
LCS	100
MS	130
MSD	111

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103510032A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6163869	69	105
6163870	82	97
6163871	118	126*
6163872	101	108
6163873	113	116
6163876	99	112
6163877	92	102
6163878	108	110
6163879	84	88
6163880	99	120
6163881	86	94
6163882	97	98
6163883	103	190*
6163884	91	97
6163885	87	104
6163886	94	100
6163887	109	116
6163888	115	110
Blank	100	106
LCS	91	96
LCSD	93	105
MS	101	108
MSD	113	116
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103550006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6163878	66	103
6163879	64	98
6163880	78	101
6163881	73	94
6163882	77	42
6163883	70	70
6163887	71	135*
6163888	66	55
Blank	65	112
LCS	32*	108
MS	68	36
MSD	74	69
Limits:	50-130	20-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103550019A

	2-Nitro-m-xylene
6163869	108
6163870	111
6163871	104
6163872	108
6163873	105
6163876	110

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Surrogate Quality Control

6163877	107
6163880	108
6163884	107
6163885	120
6163886	106
Blank	112
LCS	105
LCSD	102
MS	108
MSD	105

Limits: 80-146

Analysis Name: 25a Alcohols by 8015B
Batch number: 103500005A

	Acetone
6163869	83
6163870	81
6163876	75
Blank	92
LCS	88
MS	77
MSD	76

Limits: 42-138

Analysis Name: 25a Alcohols by 8015B
Batch number: 103510008A

	Acetone
6163880	96
Blank	97
LCS	91
MS	97
MSD	97

Limits: 42-138

Analysis Name: 25a Alcohols by 8015B
Batch number: 103540002A

	Acetone
6163871	85
6163872	82
6163873	85
6163877	89
6163884	91
6163885	89
6163886	83
Blank	93
LCS	90
MS	82
MSD	85

Limits: 42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225274
Reported: 01/25/11 at 04:47 PM

Surrogate Quality Control

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550026A

	n-Triacontane-d62
6163869	91
6163870	92
6163871	91
6163872	91
6163873	93
6163876	92
6163877	102
6163880	92
6163884	94
6163885	94
6163886	94
Blank	97
LCS	94
MS	91
MSD	93
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

#13013 1225274 G1G3869-88 Amended COC

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
***Primary Analyses as indicated on sample labels**
****Secondary Analyses as indicated on sample labels**
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: ***(Signature)***

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-007-SA5C-SB-4.0-5.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
SL-007-SA5C-SB-9.0-10.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
SL-007-SA5C-SB-9.5	12.13.10	1210	soil	none	5 Encore Samplers	x	x		x											x	x	x	x	x	x	x	x	x	
SL-071-SA5B-SS-0.0-0.5MS	12.13.10	1009	soil	none	2 x 16 oz. jarS & 2 6" sleeves			x			x	x	x	x	x	x		x	x										MS sample
SL-072-SA5B-SS-0.0-0.5	12.13.10	0948	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-073-SA5B-SS-0.0-0.5	12.13.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-074-SA5B-SS-0.0-0.5	12.13.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-075-SA5B-SS-0.0-0.5	12.13.10	0903	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-076-SA5B-SS-0.0-0.5	12.13.10	0928	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-078-SA5B-SS-0.0-0.5	12.13.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-083-SA5B-SS-0.0-0.5	12.13.10	1049	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-084-SA5B-SS-0.0-0.5	12.13.10	1046	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	5 Encore Samplers	x	x		x																				
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar					x										x	x	x	x	x	x	x	x	x	
SL-086-SA5B-SS-0.0-0.5	12.13.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-087-SA5B-SS-0.0-0.5	12.13.10	1317	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-089-SA5B-SS-0.0-0.5	12.13.10	1410	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-091-SA5B-SS-0.0-0.5	12.13.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-092-SA5B-SS-0.0-0.5	12.13.10	1327	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-095-SA5B-SS-0.0-0.5	12.13.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-103-SA5B-SS-0.0-0.5	12.13.10	1425	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-139-SA5B-SS-0.0-0.5	12.13.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-236-SA5B-SS-0.0-0.5	12.13.10	1310	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x	x	x	x										
SL-301-SA5B-SS-0.0-0.5	12.13.10	0900	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										

13013/1225274/G1G38869-88

CHAIN OF CUSTODY RECORD

Amended COC

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP04-SA5B-QC-121310	12.13.10	1015	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										dup
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	dup
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	5 Encore Samplers	x	x		x																				dup
EB01-SA5B-121310	12.13.10	1215	water	none	6-1 liter amber			x						x	x			x	x										rinsate
EB01-SA5B-121310	12.13.10	1215	water	none	1-500 ml poly							x	x			x									x				rinsate
EB01-SA5B-121310	12.13.10	1215	water	HNO3	1-500 ml poly						x																		rinsate
EB01-SA5B-121310	12.13.10	1215	water	HCl	6-40 mL amber VOA vials	x	x																						rinsate
SED-029-SIV-SD-0.0-0.5	12.13.10	1152	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SED-030-SIV-SD-0.0-0.5	12.13.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SED-031-SIV-SD-0.0-0.5	12.13.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SED-032-SIV-SD-0.0-0.5	12.13.10	1457	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x	x	x	x										
SED-033-SIV-SD-0.0-0.5	12.13.10	1540	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SED-040-SIV-SD-0.0-0.5	12.13.10	1019	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x		x	x										
SL-001-SA5C-SB-4.0-5.0	12.13.10	1608	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
SL-001-SA5C-SB-4.5	12.13.10	1604	soil	none	5 Encore Samplers	x	x		x																				
SL-001-SA5C-5B-9.0-10.0	12.13.10	1616	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
SL-001-SA5C-SB-9.5	12.13.10	1612	soil	none	5 Encore Samplers	x	x		x																				
SL-003-SA5C-SB-4.0-5.0	12.13.10	1437	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x	x			x	x	x	x	x	x	x	x	x	
SL-003-SA5C-SB-4.5	12.13.10	1433	soil	none	5 Encore Samplers	x	x		x																				
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	8 x 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	MS sample
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	4 x 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	MS sample
SL-006-SA5C-SB-4.5MS	12.13.10	0943	soil	none	15 Encore Samplers	x	x		x																				MS sample
SL-006-SA5C-SB-9.0-10.0	12.13.10	0955	soil	none	3 x 4 oz. jars & 3 16 oz. jars			x		x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	
SL-006-SA5C-SB-9.5	12.13.10	0953	soil	none	5 Encore Samplers	x	x		x																				
SL-007-SA5B-SS-0.0-0.5	12.13.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			x			x	x	x	x	x	x	x	x	x										
~~SL-007-SA5C-SB-4.5~~	12.13.10	1200	soil	none	5 Encore Samplers	x	x		x																				

~~SL-007-SA5B-SS-~~ NLM ③ 1/5/11

→ SL-007-SA5C-SB-4.5 Updated per PB. NLM 1/5/11

13013 1225274 6163869-7988

AMO 12/14/10

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*VOCs/EPA 82608	*1,4-Dioxane EPA 8260SIM	*SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020/6747/1A	*Hex Chrome EPA 7199@	*Fluorides EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-006-SA5C-SB-9.0-10.0	12.13.10	0955	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	dup
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	8 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	MS sample
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	4 x 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	MS sample
EB-15-SA5B-121310	12.13.10	1215	water	none	6-1 liter amber			X						X	X			X	X										rinsate
EB-15-SA5B-121310	12.13.10	1215	water	none	1-500 ml poly							X	X			X													rinsate
EB-15-SA5B-121310	12.13.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB-15-SA5B-121310	12.13.10	1215	water	HCl	6-40 mL amber VOA vials	X	X																						rinsate
SL-006-SA5C-SB-4.5MS	12.13.10	0943	soil	none	15 Encore Samplers	X	X		X																				MS sample
SL-006-SA5C-SB-9.5	12.13.10	0953	soil	none	5 Encore Samplers	X	X		X																				
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	5 Encore Samplers	X	X		X																				dup
SL-007-SA5C-SB-9.5	12.13.10	1210	soil	none	5 Encore Samplers	X	X		X																				
SL-007-SA5C-SB-4.0-5.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-007-SA5C-SB-9.0-10.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-075-SA5B-SS-0.0-0.5	12.13.10	0903	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-007-SA5B-SS-0.0-0.5	12.13.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-007-SA5B-SS-4.5	12.13.10	1200	soil	none	5 Encore Samplers	X	X		X																				
SL-078-SA5B-SS-0.0-0.5	12.13.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-084-SA5B-SS-0.0-0.5	12.13.10	1046	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-076-SA5B-SS-0.0-0.5	12.13.10	0928	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-071-SA5B-SS-0.0-0.5MS	12.13.10	1009	soil	none	2 x 16 oz. jarS & 2 6" sleeves			X			X	X	X	X	X	X	X	X	X										MS sample
SL-139-SA5B-SS-0.0-0.5	12.13.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-083-SA5B-SS-0.0-0.5	12.13.10	1049	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-074-SA5B-SS-0.0-0.5	12.13.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-301-SA5B-SS-0.0-0.5	12.13.10	0900	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-073-SA5B-SS-0.0-0.5	12.13.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-072-SA5B-SS-0.0-0.5	12.13.10	0948	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
DUP04-SA5B-QC-121310	12.13.10	1015	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										dup
SED-029-SIV-SD-0.0-0.5	12.13.10	1152	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-031-SIV-SD-0.0-0.5	12.13.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-030-SIV-SD-0.0-0.5	12.13.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-040-SIV-SD-0.0-0.5	12.13.10	1019	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-086-SA5B-SS-0.0-0.5	12.13.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-092-SA5B-SS-0.0-0.5	12.13.10	1327	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-103-SA5B-SS-0.0-0.5	12.13.10	1425	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-089-SA5B-SS-0.0-0.5	12.13.10	1410	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-236-SA5B-SS-0.0-0.5	12.13.10	1310	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	5 Encore Samplers	X	X		X																				
SL-085-SA5B-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar															X	X	X	X	X	X	X			
SL-087-SA5B-SS-0.0-0.5	12.13.10	1317	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-095-SA5B-SS-0.0-0.5	12.13.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-091-SA5B-SS-0.0-0.5	12.13.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-003-SA5C-SB-4.0-5.0	12.13.10	1437	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-003-SA5C-SB-4.5	12.13.10	1433	soil	none	5 Encore Samplers	X	X		X																				
SL-001-SA5C-SB-4.0-5.0	12.13.10	1608	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-001-SA5C-SB-9.0-10.0	12.13.10	1616	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-001-SA5C-SB-4.5	12.13.10	1604	soil	none	5 Encore Samplers	X	X		X																				
SL-001-SA5C-SB-9.5	12.13.10	1612	soil	none	5 Encore Samplers	X	X		X																				
SED-032-SIV-SD-0.0-0.5	12.13.10	1457	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-033-SIV-SD-0.0-0.5	12.13.10	1540	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12/13/10 1630		12/14/10	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	ADR# No. 007 32992	1005	6 coolers

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/14/2010
Group Number: 1225277
SDG: DX021
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-006-SA5C-SB-9.0-10.0 Soil	6163895
DUP13-SA5C-QC-121310 Soil	6163896
SL-006-SA5C-SB-4.0-5.0 Soil	6163897
SL-006-SA5C-SB-4.0-5.0MS Soil	6163898
SL-006-SA5C-SB-4.0-5.0MSD Soil	6163899
EB-15-SA5B-121310 Water	6163900
SL-007-SA5C-SB-4.0-5.0 Soil	6163901
SL-007-SA5C-SB-9.0-10.0 Soil	6163902
SL-075-SA5B-SS-0.0-0.5 Soil	6163903
SL-077-SA5B-SS-0.0-0.5 Soil	6163904
SL-085-SA5B-SS-0.0-0.5 Soil	6163905
SL-087-SA5B-SS-0.0-0.5 Soil	6163906
SL-095-SA5B-SS-0.0-0.5 Soil	6163907
SL-091-SA5B-SS-0.0-0.5 Soil	6163908
SL-003-SA5C-SB-4.0-5.0 Soil	6163909
SL-001-SA5C-SB-4.0-5.0 Soil	6163910
SL-001-SA5C-SB-9.0-10.0 Soil	6163911
SED-032-SIV-SD-0.0-0.5 Soil	6163912
SED-033-SIV-SD-0.0-0.5 Soil	6163913

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

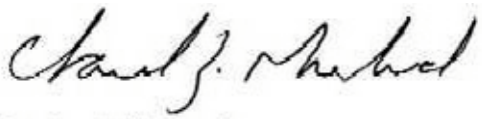

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-9.0-10.0

LLI Sample # SW 6163895
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0691 SDG#: DX021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-9.0-10.0

LLI Sample # SW 6163895
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

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Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0691 SDG#: DX021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0145 U	0.0145	1.09	1
11031	12378-PeCDD	40321-76-4	0.0346 JBQ	0.0166	5.45	1
11031	123478-HxCDD	39227-28-6	0.0471 JBQ	0.0176	5.45	1
11031	123678-HxCDD	57653-85-7	0.204 JB	0.0182	5.45	1
11031	123789-HxCDD	19408-74-3	0.197 JB	0.0174	5.45	1
11031	1234678-HpCDD	35822-46-9	5.23 JB	0.0326	5.45	1
11031	OCDD	3268-87-9	83.4 B	0.0270	10.9	1
11031	2378-TCDF	51207-31-9	0.0321 JBQ	0.0144	1.09	1
11031	12378-PeCDF	57117-41-6	0.0757 JB	0.00773	5.45	1
11031	23478-PeCDF	57117-31-4	0.137 JBQ	0.00784	5.45	1
11031	123478-HxCDF	70648-26-9	0.163 JB	0.0132	5.45	1
11031	123678-HxCDF	57117-44-9	0.143 JB	0.0107	5.45	1
11031	123789-HxCDF	72918-21-9	0.0937 JB	0.0159	5.45	1
11031	234678-HxCDF	60851-34-5	0.241 JB	0.0124	5.45	1
11031	1234678-HpCDF	67562-39-4	0.955 JB	0.0101	5.45	1
11031	1234789-HpCDF	55673-89-7	0.145 JB	0.0186	5.45	1
11031	OCDF	39001-02-0	1.53 JB	0.0236	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-9.0-10.0

LLI Sample # SW 6163895
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0691 SDG#: DX021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-9.0-10.0

LLI Sample # SW 6163895
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0691 SDG#: DX021-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/14/2011 16:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163896
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP13 SDG#: DX021-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163896
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP13 SDG#: DX021-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0165	U	0.0165	1.15	1
11031	12378-PeCDD	40321-76-4	0.0649	JBQ	0.0263	5.73	1
11031	123478-HxCDD	39227-28-6	0.0401	JBQ	0.0172	5.73	1
11031	123678-HxCDD	57653-85-7	0.287	JB	0.0173	5.73	1
11031	123789-HxCDD	19408-74-3	0.447	JB	0.0174	5.73	1
11031	1234678-HpCDD	35822-46-9	1.03	JB	0.0240	5.73	1
11031	OCDD	3268-87-9	8.45	JB	0.0242	11.5	1
11031	2378-TCDF	51207-31-9	0.0368	JB	0.0216	1.15	1
11031	12378-PeCDF	57117-41-6	0.334	JBQ	0.00952	5.73	1
11031	23478-PeCDF	57117-31-4	0.143	JBQ	0.0106	5.73	1
11031	123478-HxCDF	70648-26-9	0.160	JB	0.0174	5.73	1
11031	123678-HxCDF	57117-44-9	0.115	JBQ	0.0138	5.73	1
11031	123789-HxCDF	72918-21-9	0.512	JB	0.0242	5.73	1
11031	234678-HxCDF	60851-34-5	0.237	JBQ	0.0162	5.73	1
11031	1234678-HpCDF	67562-39-4	0.677	JB	0.0109	5.73	1
11031	1234789-HpCDF	55673-89-7	0.139	JBQ	0.0231	5.73	1
11031	OCDF	39001-02-0	0.898	JBQ	0.0275	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	66	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: DUP13-SA5C-QC-121310 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163896
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP13 SDG#: DX021-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP13-SA5C-QC-121310 Soil**
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163896
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP13 SDG#: DX021-02FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/14/2011 17:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163897
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163897
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0249 JBQ	0.0191	1.13	1
11031	12378-PeCDD	40321-76-4	0.0742 JB	0.0274	5.64	1
11031	123478-HxCDD	39227-28-6	0.0294 JBQ	0.0219	5.64	1
11031	123678-HxCDD	57653-85-7	0.362 JB	0.0227	5.64	1
11031	123789-HxCDD	19408-74-3	0.510 JBQ	0.0223	5.64	1
11031	1234678-HpCDD	35822-46-9	2.54 JB	0.0331	5.64	1
11031	OCDD	3268-87-9	25.4 B	0.0332	11.3	1
11031	2378-TCDF	51207-31-9	0.0498 JBQ	0.0242	1.13	1
11031	12378-PeCDF	57117-41-6	0.294 JB	0.0125	5.64	1
11031	23478-PeCDF	57117-31-4	0.100 JBQ	0.0120	5.64	1
11031	123478-HxCDF	70648-26-9	0.0520 JB	0.0181	5.64	1
11031	123678-HxCDF	57117-44-9	0.0857 JB	0.0166	5.64	1
11031	123789-HxCDF	72918-21-9	0.445 JB	0.0220	5.64	1
11031	234678-HxCDF	60851-34-5	0.0838 JBQ	0.0170	5.64	1
11031	1234678-HpCDF	67562-39-4	0.428 JB	0.0140	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0739 JBQ	0.0249	5.64	1
11031	OCDF	39001-02-0	0.999 JB	0.0328	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163897
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-006-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163897
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/14/2011 18:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163898
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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D0645 SDG#: DX021-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163898
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.7	B	0.0233	1.13	1
11031	12378-PeCDD	40321-76-4	116	B	0.0729	5.64	1
11031	123478-HxCDD	39227-28-6	117	B	0.0677	5.64	1
11031	123678-HxCDD	57653-85-7	119	B	0.0646	5.64	1
11031	123789-HxCDD	19408-74-3	120	B	0.0448	5.64	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0891	5.64	1
11031	OCDD	3268-87-9	250	B	0.0648	11.3	1
11031	2378-TCDF	51207-31-9	25.1	B	0.0501	1.13	1
11031	12378-PeCDF	57117-41-6	120	B	0.0288	5.64	1
11031	23478-PeCDF	57117-31-4	118	B	0.0374	5.64	1
11031	123478-HxCDF	70648-26-9	112	B	0.0939	5.64	1
11031	123678-HxCDF	57117-44-9	114	B	0.0772	5.64	1
11031	123789-HxCDF	72918-21-9	113	B	0.0612	5.64	1
11031	234678-HxCDF	60851-34-5	113	B	0.0595	5.64	1
11031	1234678-HpCDF	67562-39-4	115	B	0.0781	5.64	1
11031	1234789-HpCDF	55673-89-7	115	B	0.0916	5.64	1
11031	OCDF	39001-02-0	235	B	0.0833	11.3	1

The recoveries of several labeled compounds were low in this sample. However, the recovery of all of the spiked, native compounds were within specifications.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	29	25 - 181
13C12-123478-HxCDD	24	32 - 141
13C12-123678-HxCDD	25	28 - 130
13C12-123789-HxCDD	37	28 - 130
13C12-1234678-HpCDD	34	23 - 140
13C12-OCDD	34	17 - 157
13C12-2378-TCDF	30	24 - 169
13C12-12378-PeCDF	34	24 - 185
13C12-23478-PeCDF	25	21 - 178
13C12-123478-HxCDF	21	26 - 152
13C12-123678-HxCDF	25	26 - 123
13C12-234678-HxCDF	32	28 - 136
13C12-123789-HxCDF	37	29 - 147
13C12-1234678-HpCDF	30	28 - 143
13C12-1234789-HpCDF	31	26 - 138
13C12-OCDF	27	17 - 157
13C12-1278-TCDD (CRS)	18	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163898
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA5C-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163898
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/14/2011 19:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163899
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163899
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8	B	0.0231	1.13	1
11031	12378-PeCDD	40321-76-4	118	B	0.0423	5.64	1
11031	123478-HxCDD	39227-28-6	121	B	0.0344	5.64	1
11031	123678-HxCDD	57653-85-7	118	B	0.0351	5.64	1
11031	123789-HxCDD	19408-74-3	118	B	0.0344	5.64	1
11031	1234678-HpCDD	35822-46-9	125	B	0.0668	5.64	1
11031	OCDD	3268-87-9	314	B	0.0564	11.3	1
11031	2378-TCDF	51207-31-9	24.0	B	0.0312	1.13	1
11031	12378-PeCDF	57117-41-6	120	B	0.0174	5.64	1
11031	23478-PeCDF	57117-31-4	119	B	0.0173	5.64	1
11031	123478-HxCDF	70648-26-9	114	B	0.0429	5.64	1
11031	123678-HxCDF	57117-44-9	114	B	0.0386	5.64	1
11031	123789-HxCDF	72918-21-9	114	B	0.0499	5.64	1
11031	234678-HxCDF	60851-34-5	113	B	0.0410	5.64	1
11031	1234678-HpCDF	67562-39-4	115	B	0.0430	5.64	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0598	5.64	1
11031	OCDF	39001-02-0	231	B	0.0405	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163899
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX021-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA5C-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163899
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

D0645 SDG#: DX021-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/14/2011 19:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **EB-15-SA5B-121310 Water**
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163900
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
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DEB15 SDG#: DX021-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	3.48	U	3.48	2.30	1
10915	12378-PeCDD	40321-76-4	2.02	JB	1.28	11.5	1
10915	123478-HxCDD	39227-28-6	0.514	JB	0.440	11.5	1
10915	123678-HxCDD	57653-85-7	1.01	JB	0.449	11.5	1
10915	123789-HxCDD	19408-74-3	0.622	JB	0.496	11.5	1
10915	1234678-HpCDD	35822-46-9	1.77	JBQ	0.456	11.5	1
10915	OCDD	3268-87-9	7.38	JB	0.505	23.0	1
10915	2378-TCDF	51207-31-9	0.355	U	0.355	2.30	1
10915	12378-PeCDF	57117-41-6	0.591	JB	0.334	11.5	1
10915	23478-PeCDF	57117-31-4	0.623	JB	0.289	11.5	1
10915	123478-HxCDF	70648-26-9	1.09	JBQ	0.295	11.5	1
10915	123678-HxCDF	57117-44-9	0.846	JBQ	0.280	11.5	1
10915	123789-HxCDF	72918-21-9	0.654	JB	0.304	11.5	1
10915	234678-HxCDF	60851-34-5	1.13	JB	0.272	11.5	1
10915	1234678-HpCDF	67562-39-4	3.04	JB	0.258	11.5	1
10915	1234789-HpCDF	55673-89-7	0.663	JB	0.290	11.5	1
10915	OCDF	39001-02-0	1.71	JB	0.506	23.0	1

The recoveries of several labeled compounds were outside QC limits in this sample and the blank and OPR associated with this sample. The sample was re-extracted outside the project specified holding time with all labeled compound recoveries within QC specification. Comparable native compound results were observed between the two extractions.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	3	25 - 164
13C12-12378-PeCDD	15	25 - 181
13C12-123478-HxCDD	24	32 - 141
13C12-123678-HxCDD	23	28 - 130
13C12-123789-HxCDD	21	28 - 130
13C12-1234678-HpCDD	30	23 - 140
13C12-OCDD	29	17 - 157
13C12-2378-TCDF	33	24 - 169
13C12-12378-PeCDF	29	24 - 185
13C12-23478-PeCDF	34	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	27	26 - 123
13C12-234678-HxCDF	29	28 - 136
13C12-123789-HxCDF	29	29 - 147
13C12-1234678-HpCDF	29	28 - 143
13C12-1234789-HpCDF	29	26 - 138
13C12-OCDF	28	17 - 157
13C12-1278-TCDD (CRS)	9	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB-15-SA5B-121310 Water**
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163900
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB15 SDG#: DX021-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362001	12/30/2010 17:25	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10362001	12/28/2010 06:30	Ginelle L Haines	1

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Analysis Report

Sample Description: **SL-007-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163901
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0745 SDG#: DX021-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163901
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0745 SDG#: DX021-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0234	U	0.0234	1.09	1
11031	12378-PeCDD	40321-76-4	0.0864	JBQ	0.0310	5.44	1
11031	123478-HxCDD	39227-28-6	0.112	JB	0.0271	5.44	1
11031	123678-HxCDD	57653-85-7	0.321	JBQ	0.0283	5.44	1
11031	123789-HxCDD	19408-74-3	0.285	JB	0.0271	5.44	1
11031	1234678-HpCDD	35822-46-9	5.76	B	0.0404	5.44	1
11031	OCDD	3268-87-9	58.1	B	0.0412	10.9	1
11031	2378-TCDF	51207-31-9	0.0301	U	0.0301	1.09	1
11031	12378-PeCDF	57117-41-6	0.164	JBQ	0.0150	5.44	1
11031	23478-PeCDF	57117-31-4	0.241	JBQ	0.0159	5.44	1
11031	123478-HxCDF	70648-26-9	0.177	JB	0.0220	5.44	1
11031	123678-HxCDF	57117-44-9	0.135	JBQ	0.0183	5.44	1
11031	123789-HxCDF	72918-21-9	0.231	JB	0.0260	5.44	1
11031	234678-HxCDF	60851-34-5	0.247	JBQ	0.0212	5.44	1
11031	1234678-HpCDF	67562-39-4	1.17	JB	0.0161	5.44	1
11031	1234789-HpCDF	55673-89-7	0.246	JB	0.0285	5.44	1
11031	OCDF	39001-02-0	2.06	JB	0.0337	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-007-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163901
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0745 SDG#: DX021-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-007-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163901
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

D0745 SDG#: DX021-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/14/2011 20:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-007-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163902
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0791 SDG#: DX021-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163902
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0791 SDG#: DX021-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0237 JBQ	0.0225	1.10	1
11031	12378-PeCDD	40321-76-4	0.119 JBQ	0.0322	5.51	1
11031	123478-HxCDD	39227-28-6	0.126 JB	0.0326	5.51	1
11031	123678-HxCDD	57653-85-7	0.557 JB	0.0347	5.51	1
11031	123789-HxCDD	19408-74-3	0.353 JB	0.0331	5.51	1
11031	1234678-HpCDD	35822-46-9	14.7 B	0.0655	5.51	1
11031	OCDD	3268-87-9	179 B	0.0656	11.0	1
11031	2378-TCDF	51207-31-9	0.0249 U	0.0249	1.10	1
11031	12378-PeCDF	57117-41-6	0.0980 JB	0.0144	5.51	1
11031	23478-PeCDF	57117-31-4	0.144 JB	0.0139	5.51	1
11031	123478-HxCDF	70648-26-9	0.116 JB	0.0216	5.51	1
11031	123678-HxCDF	57117-44-9	0.128 JB	0.0195	5.51	1
11031	123789-HxCDF	72918-21-9	0.170 JBQ	0.0240	5.51	1
11031	234678-HxCDF	60851-34-5	0.162 JB	0.0206	5.51	1
11031	1234678-HpCDF	67562-39-4	1.71 JB	0.0163	5.51	1
11031	1234789-HpCDF	55673-89-7	0.194 JB	0.0227	5.51	1
11031	OCDF	39001-02-0	4.77 JB	0.0316	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163902
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0791 SDG#: DX021-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-007-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163902
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

D0791 SDG#: DX021-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/14/2011 21:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-075-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163903
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D7505 SDG#: DX021-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163903
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D7505 SDG#: DX021-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0679	JBQ	0.0182	1.06	1
11031	12378-PeCDD	40321-76-4	0.518	JB	0.0419	5.32	1
11031	123478-HxCDD	39227-28-6	0.909	JB	0.0286	5.32	1
11031	123678-HxCDD	57653-85-7	2.30	JB	0.0291	5.32	1
11031	123789-HxCDD	19408-74-3	2.31	JB	0.0298	5.32	1
11031	1234678-HpCDD	35822-46-9	54.7	B	0.0776	5.32	1
11031	OCDD	3268-87-9	502	B	0.0634	10.6	1
11031	2378-TCDF	51207-31-9	0.214	JB	0.0339	1.06	1
11031	12378-PeCDF	57117-41-6	0.378	JB	0.0142	5.32	1
11031	23478-PeCDF	57117-31-4	0.435	JB	0.0145	5.32	1
11031	123478-HxCDF	70648-26-9	0.629	JB	0.0263	5.32	1
11031	123678-HxCDF	57117-44-9	0.613	JB	0.0232	5.32	1
11031	123789-HxCDF	72918-21-9	0.467	JB	0.0317	5.32	1
11031	234678-HxCDF	60851-34-5	0.706	JB	0.0258	5.32	1
11031	1234678-HpCDF	67562-39-4	9.65	B	0.0234	5.32	1
11031	1234789-HpCDF	55673-89-7	0.847	JB	0.0361	5.32	1
11031	OCDF	39001-02-0	25.3	B	0.0284	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163903
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D7505 SDG#: DX021-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-075-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163903
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

D7505 SDG#: DX021-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/14/2011 22:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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Analysis Report

Sample Description: **SL-077-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163904
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0705 SDG#: DX021-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-077-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163904
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0705 SDG#: DX021-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0969	JB	0.0178	1.08	1
11031	12378-PeCDD	40321-76-4	0.290	JB	0.0311	5.38	1
11031	123478-HxCDD	39227-28-6	0.443	JB	0.0297	5.38	1
11031	123678-HxCDD	57653-85-7	0.946	JB	0.0310	5.38	1
11031	123789-HxCDD	19408-74-3	0.884	JB	0.0301	5.38	1
11031	1234678-HpCDD	35822-46-9	21.8	B	0.0487	5.38	1
11031	OCDD	3268-87-9	179	B	0.0531	10.8	1
11031	2378-TCDF	51207-31-9	0.220	JB	0.0263	1.08	1
11031	12378-PeCDF	57117-41-6	0.247	JB	0.0121	5.38	1
11031	23478-PeCDF	57117-31-4	0.329	JB	0.0135	5.38	1
11031	123478-HxCDF	70648-26-9	0.378	JB	0.0250	5.38	1
11031	123678-HxCDF	57117-44-9	0.373	JB	0.0202	5.38	1
11031	123789-HxCDF	72918-21-9	0.236	JB	0.0322	5.38	1
11031	234678-HxCDF	60851-34-5	0.501	JB	0.0237	5.38	1
11031	1234678-HpCDF	67562-39-4	3.96	JB	0.0167	5.38	1
11031	1234789-HpCDF	55673-89-7	0.478	JB	0.0318	5.38	1
11031	OCDF	39001-02-0	7.92	JB	0.0316	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163904
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0705 SDG#: DX021-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163904
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0705 SDG#: DX021-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 02:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-085-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163905
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D8505 SDG#: DX021-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-085-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163905
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D8505 SDG#: DX021-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0844	JBQ	0.0232	1.07	1
11031	12378-PeCDD	40321-76-4	0.208	JB	0.0683	5.36	1
11031	123478-HxCDD	39227-28-6	0.301	JBQ	0.0415	5.36	1
11031	123678-HxCDD	57653-85-7	1.32	JB	0.0437	5.36	1
11031	123789-HxCDD	19408-74-3	0.836	JB	0.0432	5.36	1
11031	1234678-HpCDD	35822-46-9	37.3	B	0.0943	5.36	1
11031	OCDD	3268-87-9	432	B	0.0650	10.7	1
11031	2378-TCDF	51207-31-9	0.197	JB	0.0430	1.07	1
11031	12378-PeCDF	57117-41-6	0.774	JB	0.0205	5.36	1
11031	23478-PeCDF	57117-31-4	0.517	JB	0.0200	5.36	1
11031	123478-HxCDF	70648-26-9	0.720	JB	0.0294	5.36	1
11031	123678-HxCDF	57117-44-9	0.939	JB	0.0270	5.36	1
11031	123789-HxCDF	72918-21-9	0.353	JB	0.0331	5.36	1
11031	234678-HxCDF	60851-34-5	0.544	JB	0.0278	5.36	1
11031	1234678-HpCDF	67562-39-4	7.20	B	0.0323	5.36	1
11031	1234789-HpCDF	55673-89-7	0.641	JB	0.0417	5.36	1
11031	OCDF	39001-02-0	16.1	B	0.0422	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-085-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163905
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D8505 SDG#: DX021-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-085-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163905
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D8505 SDG#: DX021-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 03:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163906
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D8705 SDG#: DX021-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163906
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D8705 SDG#: DX021-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0365	JB	0.0227	1.09	1
11031	12378-PeCDD	40321-76-4	0.0840	JB	0.0467	5.46	1
11031	123478-HxCDD	39227-28-6	0.163	JBQ	0.0416	5.46	1
11031	123678-HxCDD	57653-85-7	0.983	JB	0.0426	5.46	1
11031	123789-HxCDD	19408-74-3	0.485	JB	0.0414	5.46	1
11031	1234678-HpCDD	35822-46-9	30.1	B	0.0838	5.46	1
11031	OCDD	3268-87-9	322	B	0.0683	10.9	1
11031	2378-TCDF	51207-31-9	0.196	JB	0.0366	1.09	1
11031	12378-PeCDF	57117-41-6	0.489	JB	0.0191	5.46	1
11031	23478-PeCDF	57117-31-4	0.386	JB	0.0183	5.46	1
11031	123478-HxCDF	70648-26-9	0.462	JB	0.0252	5.46	1
11031	123678-HxCDF	57117-44-9	0.319	JB	0.0236	5.46	1
11031	123789-HxCDF	72918-21-9	0.223	JB	0.0289	5.46	1
11031	234678-HxCDF	60851-34-5	0.426	JB	0.0249	5.46	1
11031	1234678-HpCDF	67562-39-4	4.08	JB	0.0553	5.46	1
11031	1234789-HpCDF	55673-89-7	0.527	JBQ	0.0763	5.46	1
11031	OCDF	39001-02-0	10.4	JB	0.0502	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163906
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D8705 SDG#: DX021-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163906
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D8705 SDG#: DX021-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 04:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163907
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

D9505 SDG#: DX021-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163907
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9505 SDG#: DX021-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.282	JB	0.0499	1.05	1
11031	12378-PeCDD	40321-76-4	0.369	JBQ	0.0901	5.26	1
11031	123478-HxCDD	39227-28-6	0.492	JBQ	0.0721	5.26	1
11031	123678-HxCDD	57653-85-7	1.84	JB	0.0747	5.26	1
11031	123789-HxCDD	19408-74-3	1.04	JB	0.0712	5.26	1
11031	1234678-HpCDD	35822-46-9	54.9	B	0.151	5.26	1
11031	OCDD	3268-87-9	574	B	0.117	10.5	1
11031	2378-TCDF	51207-31-9	0.146	JBQ	0.0601	1.05	1
11031	12378-PeCDF	57117-41-6	0.515	JB	0.0322	5.26	1
11031	23478-PeCDF	57117-31-4	0.503	JB	0.0312	5.26	1
11031	123478-HxCDF	70648-26-9	0.509	JB	0.0508	5.26	1
11031	123678-HxCDF	57117-44-9	0.603	JB	0.0458	5.26	1
11031	123789-HxCDF	72918-21-9	0.532	JB	0.0553	5.26	1
11031	234678-HxCDF	60851-34-5	0.632	JB	0.0492	5.26	1
11031	1234678-HpCDF	67562-39-4	7.39	B	0.0568	5.26	1
11031	1234789-HpCDF	55673-89-7	0.995	JBQ	0.0846	5.26	1
11031	OCDF	39001-02-0	17.5	B	0.0794	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163907
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9505 SDG#: DX021-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163907
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9505 SDG#: DX021-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 05:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163908
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9105 SDG#: DX021-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163908
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9105 SDG#: DX021-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0431	JBQ	0.0108	1.09	1
11031	12378-PeCDD	40321-76-4	0.0360	U	0.0360	5.44	1
11031	123478-HxCDD	39227-28-6	0.169	JB	0.0264	5.44	1
11031	123678-HxCDD	57653-85-7	0.766	JB	0.0269	5.44	1
11031	123789-HxCDD	19408-74-3	0.414	JB	0.0237	5.44	1
11031	1234678-HpCDD	35822-46-9	17.7	B	0.0470	5.44	1
11031	OCDD	3268-87-9	179	B	0.0391	10.9	1
11031	2378-TCDF	51207-31-9	0.198	JB	0.0229	1.09	1
11031	12378-PeCDF	57117-41-6	0.344	JBQ	0.0137	5.44	1
11031	23478-PeCDF	57117-31-4	0.333	JB	0.0115	5.44	1
11031	123478-HxCDF	70648-26-9	0.354	JB	0.0205	5.44	1
11031	123678-HxCDF	57117-44-9	0.317	JB	0.0311	5.44	1
11031	123789-HxCDF	72918-21-9	0.212	JB	0.0210	5.44	1
11031	234678-HxCDF	60851-34-5	0.438	JBQ	0.0185	5.44	1
11031	1234678-HpCDF	67562-39-4	3.16	JB	0.0349	5.44	1
11031	1234789-HpCDF	55673-89-7	0.430	JBQ	0.0474	5.44	1
11031	OCDF	39001-02-0	5.66	JB	0.0266	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	58	25 - 181
13C12-123478-HxCDD	56	32 - 141
13C12-123678-HxCDD	55	28 - 130
13C12-123789-HxCDD	60	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	51	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	57	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	56	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163908
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9105 SDG#: DX021-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163908
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9105 SDG#: DX021-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/16/2011 16:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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Analysis Report

Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163909
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0345 SDG#: DX021-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163909
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0345 SDG#: DX021-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0154	U	0.0154	1.08	1
11031	12378-PeCDD	40321-76-4	0.0932	JB	0.0265	5.39	1
11031	123478-HxCDD	39227-28-6	0.0843	JB	0.0298	5.39	1
11031	123678-HxCDD	57653-85-7	0.358	JB	0.0297	5.39	1
11031	123789-HxCDD	19408-74-3	0.270	JB	0.0281	5.39	1
11031	1234678-HpCDD	35822-46-9	9.85	B	0.0506	5.39	1
11031	OCDD	3268-87-9	135	B	0.0464	10.8	1
11031	2378-TCDF	51207-31-9	0.0234	JB	0.0189	1.08	1
11031	12378-PeCDF	57117-41-6	0.0899	JBQ	0.0120	5.39	1
11031	23478-PeCDF	57117-31-4	0.296	JB	0.0145	5.39	1
11031	123478-HxCDF	70648-26-9	0.231	JB	0.0204	5.39	1
11031	123678-HxCDF	57117-44-9	0.187	JB	0.0179	5.39	1
11031	123789-HxCDF	72918-21-9	0.161	JB	0.0219	5.39	1
11031	234678-HxCDF	60851-34-5	0.303	JB	0.0184	5.39	1
11031	1234678-HpCDF	67562-39-4	1.96	JB	0.0161	5.39	1
11031	1234789-HpCDF	55673-89-7	0.212	JB	0.0240	5.39	1
11031	OCDF	39001-02-0	3.36	JB	0.0278	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	64	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163909
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0345 SDG#: DX021-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163909
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0345 SDG#: DX021-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 07:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163910
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0145 SDG#: DX021-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163910
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0145 SDG#: DX021-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0188	U	0.0188	1.07	1
11031	12378-PeCDD	40321-76-4	0.0245	U	0.0245	5.36	1
11031	123478-HxCDD	39227-28-6	0.0327	JB	0.0182	5.36	1
11031	123678-HxCDD	57653-85-7	0.117	JBQ	0.0191	5.36	1
11031	123789-HxCDD	19408-74-3	0.139	JB	0.0191	5.36	1
11031	1234678-HpCDD	35822-46-9	0.461	JB	0.0250	5.36	1
11031	OCDD	3268-87-9	1.36	JB	0.0345	10.7	1
11031	2378-TCDF	51207-31-9	0.0167	U	0.0167	1.07	1
11031	12378-PeCDF	57117-41-6	0.0412	JBQ	0.0101	5.36	1
11031	23478-PeCDF	57117-31-4	0.136	JB	0.0103	5.36	1
11031	123478-HxCDF	70648-26-9	0.155	JBQ	0.0175	5.36	1
11031	123678-HxCDF	57117-44-9	0.150	JB	0.0158	5.36	1
11031	123789-HxCDF	72918-21-9	0.110	JB	0.0228	5.36	1
11031	234678-HxCDF	60851-34-5	0.225	JB	0.0170	5.36	1
11031	1234678-HpCDF	67562-39-4	0.790	JB	0.0133	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0998	JB	0.0221	5.36	1
11031	OCDF	39001-02-0	0.515	JB	0.0259	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163910
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0145 SDG#: DX021-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163910
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0145 SDG#: DX021-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 08:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-001-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163911
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0191 SDG#: DX021-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	17.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163911
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0191 SDG#: DX021-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0177	U	0.0177	1.20	1
11031	12378-PeCDD	40321-76-4	0.0381	JBQ	0.0261	6.02	1
11031	123478-HxCDD	39227-28-6	0.0352	JBQ	0.0178	6.02	1
11031	123678-HxCDD	57653-85-7	0.0810	JBQ	0.0184	6.02	1
11031	123789-HxCDD	19408-74-3	0.0829	JBQ	0.0173	6.02	1
11031	1234678-HpCDD	35822-46-9	0.665	JB	0.0272	6.02	1
11031	OCDD	3268-87-9	4.85	JB	0.0306	12.0	1
11031	2378-TCDF	51207-31-9	0.0215	JB	0.0175	1.20	1
11031	12378-PeCDF	57117-41-6	0.0615	JB	0.0111	6.02	1
11031	23478-PeCDF	57117-31-4	0.144	JB	0.0117	6.02	1
11031	123478-HxCDF	70648-26-9	0.169	JB	0.0170	6.02	1
11031	123678-HxCDF	57117-44-9	0.133	JB	0.0139	6.02	1
11031	123789-HxCDF	72918-21-9	0.140	JB	0.0196	6.02	1
11031	234678-HxCDF	60851-34-5	0.282	JB	0.0159	6.02	1
11031	1234678-HpCDF	67562-39-4	0.892	JB	0.0112	6.02	1
11031	1234789-HpCDF	55673-89-7	0.148	JB	0.0200	6.02	1
11031	OCDF	39001-02-0	0.700	JB	0.0295	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163911
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0191 SDG#: DX021-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163911
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0191 SDG#: DX021-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 09:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **SED-032-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163912
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3205 SDG#: DX021-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-032-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163912
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3205 SDG#: DX021-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.228	JB	0.0289	1.14	1
11031	12378-PeCDD	40321-76-4	1.40	JB	0.0530	5.72	1
11031	123478-HxCDD	39227-28-6	1.86	JB	0.0334	5.72	1
11031	123678-HxCDD	57653-85-7	4.48	JB	0.0348	5.72	1
11031	123789-HxCDD	19408-74-3	3.68	JB	0.0344	5.72	1
11031	1234678-HpCDD	35822-46-9	86.8	B	0.0896	5.72	1
11031	OCDD	3268-87-9	982	B	0.0714	11.4	1
11031	2378-TCDF	51207-31-9	0.556	JBQ	0.0564	1.14	1
11031	12378-PeCDF	57117-41-6	1.11	JB	0.0222	5.72	1
11031	23478-PeCDF	57117-31-4	1.23	JB	0.0214	5.72	1
11031	123478-HxCDF	70648-26-9	1.19	JB	0.0302	5.72	1
11031	123678-HxCDF	57117-44-9	1.12	JB	0.0270	5.72	1
11031	123789-HxCDF	72918-21-9	0.369	JB	0.0360	5.72	1
11031	234678-HxCDF	60851-34-5	1.46	JB	0.0289	5.72	1
11031	1234678-HpCDF	67562-39-4	14.6	B	0.0268	5.72	1
11031	1234789-HpCDF	55673-89-7	1.13	JB	0.0370	5.72	1
11031	OCDF	39001-02-0	43.1	B	0.0261	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-032-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163912
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3205 SDG#: DX021-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-032-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163912
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3205 SDG#: DX021-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 10:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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Analysis Report

Sample Description: **SED-033-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163913
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3305 SDG#: DX021-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-033-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163913
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3305 SDG#: DX021-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.103	JBQ	0.0315	1.06	1
11031	12378-PeCDD	40321-76-4	0.874	JBQ	0.0525	5.31	1
11031	123478-HxCDD	39227-28-6	1.21	JB	0.0339	5.31	1
11031	123678-HxCDD	57653-85-7	2.48	JB	0.0356	5.31	1
11031	123789-HxCDD	19408-74-3	2.01	JB	0.0350	5.31	1
11031	1234678-HpCDD	35822-46-9	45.6	B	0.0756	5.31	1
11031	OCDD	3268-87-9	407	B	0.0720	10.6	1
11031	2378-TCDF	51207-31-9	0.227	JB	0.0502	1.06	1
11031	12378-PeCDF	57117-41-6	0.460	JB	0.0242	5.31	1
11031	23478-PeCDF	57117-31-4	0.628	JBQ	0.0228	5.31	1
11031	123478-HxCDF	70648-26-9	0.741	JB	0.0300	5.31	1
11031	123678-HxCDF	57117-44-9	0.799	JB	0.0274	5.31	1
11031	123789-HxCDF	72918-21-9	0.217	JB	0.0343	5.31	1
11031	234678-HxCDF	60851-34-5	1.07	JB	0.0290	5.31	1
11031	1234678-HpCDF	67562-39-4	9.94	B	0.0299	5.31	1
11031	1234789-HpCDF	55673-89-7	0.643	JB	0.0398	5.31	1
11031	OCDF	39001-02-0	20.7	B	0.0351	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-033-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163913
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3305 SDG#: DX021-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-033-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163913
LLI Group # 1225277
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

Submitted: 12/14/2010 10:05
Reported: 02/01/2011 23:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3305 SDG#: DX021-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10364001	01/15/2011 11:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10364001	12/30/2010 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225277
Reported: 02/01/11 at 11:39 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10349162402B	Sample number(s): 6163903-6163904,6163906-6163908,6163912-6163913									
28a Moisture Content by 160.3						100		80-120		
Batch number: 10364162402B	Sample number(s): 6163895-6163899,6163901-6163902,6163905,6163909-6163911									
28a Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10362001	Sample number(s): 6163900									
2378-TCDD	2.81		1.76	2.00	pg/l	89		67-158		
12378-PeCDD	0.684	J	0.492	10.0	pg/l	96		70-142		
123478-HxCDD	0.485	J	0.235	10.0	pg/l	106		70-164		
123678-HxCDD	0.512	J	0.243	10.0	pg/l	104		76-134		
123789-HxCDD	0.483	J	0.269	10.0	pg/l	106		64-162		
1234678-HpCDD	1.35	J	0.246	10.0	pg/l	108		70-140		
OCDD	2.39	J	0.274	20.0	pg/l	118		78-144		
2378-TCDF	0.181	J	0.166	2.00	pg/l	95		75-158		
12378-PeCDF	0.474	J	0.125	10.0	pg/l	104		80-134		
23478-PeCDF	0.810	J	0.113	10.0	pg/l	102		68-160		
123478-HxCDF	0.599	J	0.136	10.0	pg/l	111		72-134		
123678-HxCDF	0.568	J	0.132	10.0	pg/l	113		84-130		
123789-HxCDF	0.637	J	0.143	10.0	pg/l	111		78-130		
234678-HxCDF	0.505	J	0.136	10.0	pg/l	109		70-156		
1234678-HpCDF	1.41	J	0.122	10.0	pg/l	116		82-122		
1234789-HpCDF	0.582	J	0.148	10.0	pg/l	117		78-138		
OCDF	1.43	J	0.269	20.0	pg/l	122		63-170		
Batch number: 10364001	Sample number(s): 6163895-6163899,6163901-6163913									
2378-TCDD	0.0150	J	0.00760	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0278	J	0.00980	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0185	J	0.00990	5.00	ng/kg	106		70-164		
123678-HxCDD	0.0227	J	0.0104	5.00	ng/kg	105		76-134		
123789-HxCDD	0.0268	J	0.0101	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.136	J	0.0148	5.00	ng/kg	103		70-140		
OCDD	0.342	J	0.0157	10.0	ng/kg	103		78-144		
2378-TCDF	0.0289	J	0.00680	1.00	ng/kg	114		75-158		
12378-PeCDF	0.0340	J	0.00400	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0647	J	0.00410	5.00	ng/kg	104		68-160		
123478-HxCDF	0.0503	J	0.00770	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0334	J	0.00620	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0604	J	0.00930	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0453	J	0.00720	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.123	J	0.00650	5.00	ng/kg	100		82-122		
1234789-HpCDF	0.0507	J	0.0115	5.00	ng/kg	101		78-138		
OCDF	0.248	J	0.0169	10.0	ng/kg	103		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225277
Reported: 02/01/11 at 11:39 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10349162402B	Sample number(s): 6163903-6163904,6163906-6163908,6163912-6163913 BKG: P163881								
28a Moisture Content by 160.3						8.5	8.8	4	20
Batch number: 10364162402B	Sample number(s): 6163895-6163899,6163901-6163902,6163905,6163909-6163911 BKG: P163871								
28a Moisture Content by 160.3						11.4	11.7	3	20
Batch number: 10364001	Sample number(s): 6163895-6163899,6163901-6163913 UNSPK: 6163897								
2378-TCDD	100	101	67-158	1	25				
12378-PeCDD	102	105	70-142	2	25				
123478-HxCDD	104	107	70-164	3	25				
123678-HxCDD	105	104	76-134	0	25				
123789-HxCDD	106	104	64-162	2	25				
1234678-HpCDD	101	108	70-140	7	25				
OCDD	99	128	78-144	23	25				
2378-TCDF	111	106	75-158	4	25				
12378-PeCDF	106	106	80-134	0	25				
23478-PeCDF	104	105	68-160	1	25				
123478-HxCDF	99	101	72-134	1	25				
123678-HxCDF	101	101	84-130	0	25				
123789-HxCDF	100	100	78-130	0	25				
234678-HxCDF	100	100	70-156	0	25				
1234678-HpCDF	101	101	82-122	0	25				
1234789-HpCDF	102	101	78-138	0	25				
OCDF	104	102	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 10362001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6163900	3*	34	27	27	29	29
Blank	6*	70	67	66	66	69
OPR	10*	63	56	55	57	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225277
Reported: 02/01/11 at 11:39 PM

Surrogate Quality Control

6163900	29	29	28	9*	15*	24*
Blank	64	61	54	11*	32	58
OPR	55	54	48	17*	37	52
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6163900	23*	21*	30	29	33	29
Blank	54	49	63	55	57	68
OPR	50	46	56	48	51	60
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 10364001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6163895	65	76	72	83	73	66
6163896	59	69	69	84	71	58
6163897	59	67	66	67	67	62
6163898	52	25	21*	25*	32	37
6163899	64	77	76	81	77	75
6163901	60	72	70	79	71	63
6163902	65	75	73	77	74	72
6163903	63	73	71	79	71	68
6163904	60	66	64	76	66	58
6163905	64	72	70	72	72	72
6163906	71	83	81	83	81	80
6163907	72	84	80	84	80	80
6163908	58	56	53	37	57	59
6163909	68	66	67	74	71	71
6163910	65	80	79	86	79	71
6163911	64	72	70	80	72	65
6163912	75	86	84	89	84	81
6163913	68	83	81	83	80	81
Blank	64	73	73	85	76	67
MS	52	25	21*	25*	32	37
MSD	64	77	76	81	77	75
OPR	61	72	68	80	70	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6163895	95	62	50	73	78	76
6163896	104	59	53	66	74	76
6163897	86	60	53	69	68	67
6163898	30	31	27	18*	29	24*
6163899	88	74	67	71	74	72
6163901	92	63	56	73	72	73
6163902	82	71	64	71	71	73
6163903	86	66	58	77	71	72
6163904	88	57	50	67	69	69
6163905	73	69	59	68	68	68
6163906	88	77	69	76	78	79

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225277
Reported: 02/01/11 at 11:39 PM

Surrogate Quality Control

6163907	92	78	68	79	80	80
6163908	62	54	45	56	58	56
6163909	88	71	64	64	70	67
6163910	98	72	63	76	79	80
6163911	93	64	56	71	74	75
6163912	91	81	73	81	81	82
6163913	84	78	71	77	77	78
Blank	99	65	57	75	77	81
MS	30	31	27	18*	29	24*
MSD	88	74	67	71	74	72
OPR	93	62	53	71	75	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6163895	73	75	75	67	68	84
6163896	77	76	78	71	59	82
6163897	66	68	68	62	63	68
6163898	25*	37	34	34	30	34
6163899	73	74	75	70	69	81
6163901	71	71	73	66	64	80
6163902	71	71	72	66	70	78
6163903	70	71	70	66	67	80
6163904	70	70	70	65	61	77
6163905	67	68	66	59	70	75
6163906	76	77	77	70	77	84
6163907	79	79	80	74	78	86
6163908	55	60	57	52	59	51
6163909	69	75	74	70	72	84
6163910	80	79	82	72	70	86
6163911	73	74	76	68	65	81
6163912	82	81	81	75	80	87
6163913	78	76	77	69	77	83
Blank	79	78	77	69	64	80
MS	25*	37	34	34	30	34
MSD	73	74	75	70	69	81
OPR	75	75	74	65	59	78
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1225277 6163895-913

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, labwill measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	PerchlorateConfirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-006-SASC-SB-9.0-10.0	12.13.10	0955	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
DUP13-SASC-QC-121310	12.13.10	1010	soil	none	3 x 4 oz. Jars & 3 x 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	dup
SL-006-SASC-SB-4.0-5.0MS	12.13.10	0945	soil	none	8 x 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	MS sample
SL-006-SASC-SB-4.0-5.0MS	12.13.10	0945	soil	none	4 x 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	MS sample
EB-15-SASB-121310	12.13.10	1215	water	none	6-1 liter amber			X						X	X			X	X										rinsate
EB-15-SASB-121310	12.13.10	1215	water	none	1-500 ml poly							X	X			X													rinsate
EB-15-SASB-121310	12.13.10	1215	water	none	1-500 ml poly						X																		rinsate
EB-15-SASB-121310	12.13.10	1215	water	HCl	6-40 mL amber VOA vials	X	X																						rinsate
SL-006-SASC-SB-4.5MS	12.13.10	0943	soil	none	15 Encore Samplers	X	X		X																				MS sample
SL-006-SASC-SB-9.5	12.13.10	0953	soil	none	5 Encore Samplers	X	X		X																				
DUP13-SASC-QC-121310	12.13.10	1010	soil	none	5 Encore Samplers	X	X		X																				dup
SL-007-SASC-SB-9.5	12.13.10	1210	soil	none	5 Encore Samplers	X	X		X																				
SL-007-SASC-SB-4.0-5.0	12.13.10	1214	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-007-SASC-SB-9.0-10.0	12.13.10	1214	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-075-SASB-SS-0.0-0.5	12.13.10	0903	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
~~SL-007-SASB-SS-0.0-0.5~~	12.13.10	1004	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										SL-077-SASB-SS-0.0-0.5 Per AMC on 12/17/10 NUM 12/30/10
SL-007-SASB-SS-4.5	12.13.10	1200	soil	none	5 Encore Samplers	X	X		X																				
SL-078-SASB-SS-0.0-0.5	12.13.10	1110	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-084-SASB-SS-0.0-0.5	12.13.10	1046	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-076-SASB-SS-0.0-0.5	12.13.10	0928	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-071-SASB-SS-0.0-0.5MS	12.13.10	1009	soil	none	2 x 16 oz. JarS & 2 6" sleeves			X			X	X	X	X	X	X	X	X	X										MS sample
SL-139-SASB-SS-0.0-0.5	12.13.10	1104	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-~~073~~-SASB-SS-0.0-0.5	12.13.10	1049	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-074-SASB-SS-0.0-0.5	12.13.10	0915	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-301-SASB-SS-0.0-0.5	12.13.10	0900	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-07~~6~~-SASB-SS-0.0-0.5	12.13.10	0930	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-072-SASB-SS-0.0-0.5	12.13.10	0948	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
DUP04-SASB-QC-121310	12.13.10	1015	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										dup
SED-029-SIV-SD-0.0-0.5	12.13.10	1152	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-031-SIV-SD-0.0-0.5	12.13.10	0920	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-030-SIV-SD-0.0-0.5	12.13.10	1113	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-040-SIV-SD-0.0-0.5	12.13.10	1019	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-086-SASB-SS-0.0-0.5	12.13.10	1345	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-092-SASB-SS-0.0-0.5	12.13.10	1327	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-103-SASB-SS-0.0-0.5	12.13.10	1425	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-089-SASB-SS-0.0-0.5	12.13.10	1410	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-236-SASB-SS-0.0-0.5	12.13.10	1310	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-085-SASB-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-085-SASB-SS-0.0-0.5	12.13.10	1335	soil	none	5 Encore Samplers	X	X		X																				
SL-085-SASB-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. Jar															X	X	X	X	X	X	X			
SL-087-SASB-SS-0.0-0.5	12.13.10	1317	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-095-SASB-SS-0.0-0.5	12.13.10	1440	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-091-SASB-SS-0.0-0.5	12.13.10	1510	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-003-SASC-SB-4.0-5.0	12.13.10	1437	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-003-SASC-SB-4.5	12.13.10	1433	soil	none	5 Encore Samplers	X	X		X																				
SL-001-SASC-SB-4.0-5.0	12.13.10	1608	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-001-SASC-SB-9.0-10.0	12.13.10	1616	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars			X			X	X	X	X	X	X				X	X	X	X	X	X			X	
SL-001-SASC-SB-4.5	12.13.10	1604	soil	none	5 Encore Samplers	X	X		X																				
SL-001-SASC-SB-9.5	12.13.10	1612	soil	none	5 Encore Samplers	X	X		X																				
SED-032-SIV-SD-0.0-0.5	12.13.10	1457	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-033-SIV-SD-0.0-0.5	12.13.10	1540	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12/13/10 ~~Date/Time~~ 1630		12/14/10 1105	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. ~~00000000~~ 8007 32992		6 coolers

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/15/2010
Group Number: 1225470
SDG: DE038
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP05-SA5B-QC-121410 Grab Soil	6164621
SL-120-SA5B-SS-0.0-0.5 Grab Soil	6164622
SL-120-SA5B-SS-0.0-0.5MS Grab Soil	6164623
SL-120-SA5B-SS-0.0-0.5MSD Grab Soil	6164624
SL-120-SA5B-SS-0.0-0.5DUP Grab Soil	6164625
SL-108-SA5B-SS-0.0-0.5 Grab Soil	6164626
SL-119-SA5B-SS-0.0-0.5 Grab Soil	6164627
SL-240-SA5B-SS-0.0-0.5 Grab Soil	6164628
SL-109-SA5B-SS-0.0-0.5 Grab Soil	6164629
SL-122-SA5B-SS-0.0-0.5 Grab Soil	6164630
SL-121-SA5B-SS-0.0-0.5 Grab Soil	6164631
SL-054-SA5B-SS-0.0-0.5 Grab Soil	6164632
SL-105-SA5B-SS-0.0-0.5 Grab Soil	6164633
SL-098-SA5B-SS-0.0-0.5 Grab Soil	6164634
SL-142-SA5B-SS-0.0-0.5 Grab Soil	6164635
SL-143-SA5B-SS-0.0-0.5 Grab Soil	6164636
SL-123-SA5B-SS-0.0-0.5 Grab Soil	6164637
SL-124-SA5B-SS-0.0-0.5 Grab Soil	6164638
SL-309-SA5B-SS-0.0-0.5 Grab Soil	6164639
SL-311-SA5B-SS-0.0-0.5 Grab Soil	6164640
SL-310-SA5B-SS-0.0-0.5 Grab Soil	6164641
SL-312-SA5B-SS-0.0-0.5 Grab Soil	6164642
SED-025-SIV-SD-0.0-0.5 Grab Soil	6164643

Lancaster Laboratories

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP05-SA5B-QC-121410 Grab Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164621
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE038-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP05-SA5B-QC-121410 Grab Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164621
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE038-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.69	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	10		0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	16		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	22		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	16		0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	7.7		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	7.3	J	6.2	19	1
10138	Chrysene	218-01-9	59		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	3.2		0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	11		0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.1		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.99	J	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.5	J	6.2	19	1
10138	Phenanthrene	85-01-8	3.7		0.69	1.7	1
10138	Pyrene	129-00-0	15		0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3	1
10401	2,4-DB	94-82-6	6.2		0.64	1.8	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	820		79	260	1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: **DUP05-SA5B-QC-121410 Grab Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164621
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE038-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.8	U	1.8	3.5	1
01363	p,p-DDD	72-54-8	0.88	U	0.88	0.88	1
01363	p,p-DDE	72-55-9	0.22	U	0.22	0.35	1
01363	p,p-DDT	50-29-3	0.85	U	0.85	0.85	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.35	1
01363	Endrin Ketone	53494-70-5	0.25	U	0.25	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.076	U	0.076	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.16	U	0.16	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	1.5	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	1.1	J	0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix

*=This limit was used in the evaluation of the final result

Sample Description: **DUP05-SA5B-QC-121410 Grab Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164621
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE038-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	problems evident in the sample chromatogram.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	6,070		5.06	20.1	1
07914	Boron	7440-42-8	5.07		0.894	5.03	1
01650	Calcium	7440-70-2	1,870		6.16	20.1	1
01654	Iron	7439-89-6	8,140		4.73	20.1	1
01656	Lithium	7439-93-2	4.4		0.22	2.0	1
01657	Magnesium	7439-95-4	1,170		2.55	10.1	1
06958	Manganese	7439-96-5	94.0		0.0784	0.503	1
10145	Phosphorus	7723-14-0	232		0.563	10.1	1
01662	Potassium	7440-09-7	955		18.1	50.3	1
01667	Sodium	7440-23-5	37.5	U	37.5	101	1
07968	Strontium	7440-24-6	24.4		0.0623	0.503	1
06969	Tin	7440-31-5	1.69	J	1.01	10.1	1
06970	Titanium	7440-32-6	248		0.382	1.01	1
10146	Zirconium	7440-67-7	1.19	J	0.844	5.03	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	0.0621	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.38		0.0621	0.414	2
06126	Barium	7440-39-3	56.9		0.112	0.414	2
06127	Beryllium	7440-41-7	0.270		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.180		0.0373	0.104	2
06131	Chromium	7440-47-3	9.66		0.124	0.414	2
06132	Cobalt	7440-48-4	4.40		0.0207	0.104	2
06133	Copper	7440-50-8	6.39		0.0683	0.414	2
06135	Lead	7439-92-1	6.89		0.0108	0.207	2
06138	Molybdenum	7439-98-7	0.384		0.0518	0.104	2
06139	Nickel	7440-02-0	5.58		0.104	0.414	2
06141	Selenium	7782-49-2	0.157	J	0.0414	0.414	2
06142	Silver	7440-22-4	0.0124	U	0.0124	0.104	2
06145	Thallium	7440-28-0	0.0943	J	0.0311	0.104	2
06148	Vanadium	7440-62-2	20.2		0.0228	0.104	2
06149	Zinc	7440-66-6	36.5		0.580	3.11	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.83	1.0	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.8		0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP05-SA5B-QC-121410 Grab Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164621
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

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14420 Albemarle Point Place
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Chantilly VA 20151

DUP05 SDG#: DE038-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	415	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.88	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 02:51	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 10:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 16:45	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 21:27	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 04:37	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:33	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/29/2010 08:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 08:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/29/2010 08:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:33	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP05-SA5B-QC-121410 Grab Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164621
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE038-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/29/2010 08:45	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	103515708008	12/29/2010 08:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:33	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 08:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 03:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 14:42	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 14:41	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164622
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164622
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.41	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	4.3		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	6.2		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	7.4		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	6.1		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	3.8		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	J	6.3	19	1
10138	Chrysene	218-01-9	18		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	5.8		0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.9		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	9.0	J	6.3	19	1
10138	Phenanthrene	85-01-8	2.3		0.70	1.7	1
10138	Pyrene	129-00-0	7.0		0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	3.9		0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	720		79	260	1
10401	MCPP (Mecoprop)	93-65-2	200	J	78	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164622
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.35	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35	1
01363	p,p-DDT	50-29-3	0.093	U	0.093	0.35	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.25	U	0.25	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.94	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.91	J	0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164622
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,750		5.19	20.6	1
07914	Boron	7440-42-8	5.91		0.919	5.16	1
01650	Calcium	7440-70-2	2,070		6.33	20.6	1
01654	Iron	7439-89-6	10,500		4.86	20.6	1
01656	Lithium	7439-93-2	7.6		0.23	2.1	1
01657	Magnesium	7439-95-4	1,850		2.62	10.3	1
06958	Manganese	7439-96-5	131		0.0805	0.516	1
10145	Phosphorus	7723-14-0	271		0.578	10.3	1
01662	Potassium	7440-09-7	1,440		18.6	51.6	1
01667	Sodium	7440-23-5	49.7	J	38.5	103	1
07968	Strontium	7440-24-6	25.0		0.0640	0.516	1
06969	Tin	7440-31-5	2.16	J	1.03	10.3	1
06970	Titanium	7440-32-6	404		0.392	1.03	1
10146	Zirconium	7440-67-7	2.17	J	0.867	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0619	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.17		0.0619	0.413	2
06126	Barium	7440-39-3	48.1		0.112	0.413	2
06127	Beryllium	7440-41-7	0.294		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.121		0.0372	0.103	2
06131	Chromium	7440-47-3	8.45		0.124	0.413	2
06132	Cobalt	7440-48-4	3.77		0.0206	0.103	2
06133	Copper	7440-50-8	5.68		0.0681	0.413	2
06135	Lead	7439-92-1	5.86		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.310		0.0516	0.103	2
06139	Nickel	7440-02-0	5.49		0.103	0.413	2
06141	Selenium	7782-49-2	0.146	J	0.0413	0.413	2
06142	Silver	7440-22-4	0.0154	J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.101	J	0.0310	0.103	2
06148	Vanadium	7440-62-2	17.5		0.0227	0.103	2
06149	Zinc	7440-66-6	26.3		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164622
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02BKG

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	414	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.38	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 01:07	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 08:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 17:13	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 21:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 20:44	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 04:56	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:11	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/29/2010 08:23	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 08:23	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164622
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/29/2010 08:23	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/29/2010 08:23	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	103515708008	12/29/2010 08:23	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:11	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 08:23	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 03:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 13:30	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 14:57	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA5B-SS-0.0-0.5MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164623
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170	1
04688	Acenaphthylene	208-96-8	1,800		17	170	1
04688	Aniline	62-53-3	1,000		170	520	1
04688	Anthracene	120-12-7	1,700		17	170	1
04688	Benzidine	92-87-5	2,400	J	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,800		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,600		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,600		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	800		170	520	1
04688	Benzyl alcohol	100-51-6	1,700		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,900		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		35	170	1
04688	4-Chloroaniline	106-47-8	1,400		70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170	1
04688	2-Chlorophenol	95-57-8	1,800		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		35	170	1
04688	Chrysene	218-01-9	1,800		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		17	170	1
04688	Dibenzofuran	132-64-9	1,700		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		100	350	1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170	1
04688	Diethylphthalate	84-66-2	1,700		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,800		35	170	1
04688	3,5-Dimethylphenol	108-68-9	1,900		35	170	1
04688	Dimethylphthalate	131-11-3	1,800		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	990		170	520	1
04688	2,4-Dinitrophenol	51-28-5	1,000	J	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800		35	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		17	350	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	1,700		17	170	1
04688	Hexachlorobenzene	118-74-1	1,800		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,700		70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	2,800		170	520	1
04688	Hexachloroethane	67-72-1	1,600		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164623
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,800	35	170	1
04688	4-Methylphenol	106-44-5	1,800	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,800	17	170	1
04688	3-Nitroaniline	99-09-2	1,700	35	170	1
04688	4-Nitroaniline	100-01-6	1,300	70	170	1
04688	Nitrobenzene	98-95-3	1,800	17	170	1
04688	2-Nitrophenol	88-75-5	1,700	17	170	1
04688	4-Nitrophenol	100-02-7	1,700	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	35	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	17	170	1
04688	Pentachlorophenol	87-86-5	1,300	170	520	1
04688	Phenanthrene	85-01-8	1,700	17	170	1
04688	Phenol	108-95-2	1,900	17	170	1
04688	Pyrene	129-00-0	1,900	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	35	170	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	26	0.70	1.7	1
10138	Acenaphthylene	208-96-8	27	0.35	1.7	1
10138	Anthracene	120-12-7	27	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	28	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	26	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	26	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	20	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	25	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	34	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	36	6.3	19	1
10138	Chrysene	218-01-9	28	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	20	0.70	1.7	1
10138	Diethylphthalate	84-66-2	30	6.3	19	1
10138	Dimethylphthalate	131-11-3	30	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	35	6.3	19	1
10138	Fluoranthene	206-44-0	28	0.70	1.7	1
10138	Fluorene	86-73-7	27	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	29	0.70	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164623
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	25		0.70	1.7	1
10138	Naphthalene	91-20-3	26		0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	25		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	33		6.3	19	1
10138	Phenanthrene	85-01-8	26		0.70	1.7	1
10138	Pyrene	129-00-0	27		0.70	1.7	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.6 ug/kg. The blank value was not subtracted from the analytical result.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	11		1.3	3.8	1
10401	Dalapon	75-99-0	16		4.6	9.4	1
10401	2,4-DB	94-82-6	9.0		0.65	1.8	1
10401	Dicamba	1918-00-9	0.90	J	0.42	1.3	1
10401	Dinoseb	88-85-7	1.3	J	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.9		0.83	1.8	1
10401	MCPA	94-74-6	950		79	260	1
10401	MCPP (Mecoprop)	93-65-2	750		78	260	1
10401	2,4,5-T	93-76-5	0.78		0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.66		0.078	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.30		0.069	0.18	1
01363	Alpha BHC	319-84-6	0.35		0.035	0.18	1
01363	Beta BHC	319-85-7	0.34		0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.38		0.035	0.18	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	1.0		0.069	0.35	1
01363	p,p-DDE	72-55-9	0.82		0.069	0.35	1
01363	p,p-DDT	50-29-3	0.80		0.069	0.35	1
01363	Delta BHC	319-86-8	0.40		0.038	0.18	1
01363	Dieldrin	60-57-1	0.83		0.069	0.35	1
01363	Endosulfan I	959-98-8	0.33		0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.60		0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.73		0.069	0.35	1
01363	Endrin	72-20-8	0.76		0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.46		0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.59		0.069	0.35	1
01363	Heptachlor	76-44-8	0.46		0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.30		0.035	0.18	1
01363	Methoxychlor	72-43-5	4.8		0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						

Sample Description: SL-120-SA5B-SS-0.0-0.5MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164623
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	37		0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	6.9		0.34	1.8	1
10225	PCB-1260	11096-82-5	33		0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		5.09	20.2	1
07914	Boron	7440-42-8	198		0.901	5.06	1
01650	Calcium	7440-70-2	2,070		6.21	20.2	1
01654	Iron	7439-89-6	9,450		4.77	20.2	1
01656	Lithium	7439-93-2	107		0.22	2.0	1
01657	Magnesium	7439-95-4	1,870		2.57	10.1	1
06958	Manganese	7439-96-5	162		0.0790	0.506	1
10145	Phosphorus	7723-14-0	369		0.567	10.1	1
01662	Potassium	7440-09-7	2,400		18.2	50.6	1
01667	Sodium	7440-23-5	1,090		37.8	101	1
07968	Strontium	7440-24-6	125		0.0628	0.506	1
06969	Tin	7440-31-5	389		1.01	10.1	1
06970	Titanium	7440-32-6	498		0.385	1.01	1
10146	Zirconium	7440-67-7	102		0.850	5.06	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.01		0.0626	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.65		0.0626	0.417	2
06126	Barium	7440-39-3	63.9		0.113	0.417	2
06127	Beryllium	7440-41-7	1.11		0.0167	0.104	2
06128	Cadmium	7440-43-9	1.24		0.0375	0.104	2
06131	Chromium	7440-47-3	20.8		0.125	0.417	2
06132	Cobalt	7440-48-4	50.3		0.0209	0.104	2
06133	Copper	7440-50-8	17.2		0.0688	0.417	2
06135	Lead	7439-92-1	9.28		0.0108	0.209	2
06138	Molybdenum	7439-98-7	11.2		0.0521	0.104	2
06139	Nickel	7440-02-0	16.4		0.104	0.417	2
06141	Selenium	7782-49-2	2.07		0.0417	0.417	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SS-0.0-0.5MS Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164623
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	11.1	0.0125	0.104	2
06145	Thallium	7440-28-0	0.513	0.0313	0.104	2
06148	Vanadium	7440-62-2	31.5	0.0229	0.104	2
06149	Zinc	7440-66-6	37.9	0.584	3.13	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.169	0.0028	0.0993	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.5	0.83	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	457	9.4	31.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	41.8	1.0	5.2	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 01:42	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 09:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 17:40	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 21:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 21:03	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 05:15	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SS-0.0-0.5MS Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164623
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:22	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/29/2010 08:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 08:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/29/2010 08:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/29/2010 08:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	103515708008	12/29/2010 08:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:22	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 08:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 03:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 14:18	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 15:13	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5MS Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164623
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA5B-SS-0.0-0.5MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164624
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170	1
04688	Acenaphthylene	208-96-8	1,800		17	170	1
04688	Aniline	62-53-3	900		170	520	1
04688	Anthracene	120-12-7	1,700		17	170	1
04688	Benzidine	92-87-5	3,000	J	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,500		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,500		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,500		17	170	1
04688	Benzoic acid	65-85-0	650		170	520	1
04688	Benzyl alcohol	100-51-6	1,700		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		35	170	1
04688	4-Chloroaniline	106-47-8	1,200		70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170	1
04688	2-Chlorophenol	95-57-8	1,800		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		35	170	1
04688	Chrysene	218-01-9	1,700		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		17	170	1
04688	Dibenzofuran	132-64-9	1,700		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		100	350	1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170	1
04688	Diethylphthalate	84-66-2	1,700		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,700		35	170	1
04688	3,5-Dimethylphenol	108-68-9	1,900		35	170	1
04688	Dimethylphthalate	131-11-3	1,700		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	850		170	520	1
04688	2,4-Dinitrophenol	51-28-5	820	J	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	350	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	1,700		17	170	1
04688	Hexachlorobenzene	118-74-1	1,700		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,600		70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	2,600		170	520	1
04688	Hexachloroethane	67-72-1	1,600		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164624
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,800	35	170	1
04688	4-Methylphenol	106-44-5	1,700	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,900	17	170	1
04688	3-Nitroaniline	99-09-2	1,700	35	170	1
04688	4-Nitroaniline	100-01-6	1,300	70	170	1
04688	Nitrobenzene	98-95-3	1,700	17	170	1
04688	2-Nitrophenol	88-75-5	1,600	17	170	1
04688	4-Nitrophenol	100-02-7	1,700	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	35	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	17	170	1
04688	Pentachlorophenol	87-86-5	1,200	170	520	1
04688	Phenanthrene	85-01-8	1,700	17	170	1
04688	Phenol	108-95-2	1,800	17	170	1
04688	Pyrene	129-00-0	1,900	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	35	170	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	27	0.70	1.7	1
10138	Acenaphthylene	208-96-8	28	0.35	1.7	1
10138	Anthracene	120-12-7	28	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	30	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	28	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	28	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	25	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	26	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	35	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	37	6.3	19	1
10138	Chrysene	218-01-9	37	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	24	0.70	1.7	1
10138	Diethylphthalate	84-66-2	31	6.3	19	1
10138	Dimethylphthalate	131-11-3	32	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38	6.3	19	1
10138	Fluoranthene	206-44-0	30	0.70	1.7	1
10138	Fluorene	86-73-7	28	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	29	0.70	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164624
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	25		0.70	1.7	1
10138	Naphthalene	91-20-3	26		0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	26		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	36		6.3	19	1
10138	Phenanthrene	85-01-8	27		0.70	1.7	1
10138	Pyrene	129-00-0	30		0.70	1.7	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.6 ug/kg. The blank value was not subtracted from the analytical result.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.0		1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	11		0.65	1.8	1
10401	Dicamba	1918-00-9	0.76	J	0.42	1.3	1
10401	Dinoseb	88-85-7	0.87	J	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.9		0.83	1.8	1
10401	MCPA	94-74-6	1,800		79	260	1
10401	MCPP (Mecoprop)	93-65-2	820		78	260	1
10401	2,4,5-T	93-76-5	0.56		0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.87		0.078	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.33		0.069	0.18	1
01363	Alpha BHC	319-84-6	0.44		0.035	0.18	1
01363	Beta BHC	319-85-7	0.41		0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.42		0.035	0.18	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	1.3		0.069	0.35	1
01363	p,p-DDE	72-55-9	0.72		0.069	0.35	1
01363	p,p-DDT	50-29-3	1.2		0.069	0.35	1
01363	Delta BHC	319-86-8	0.28		0.038	0.18	1
01363	Dieldrin	60-57-1	1.0		0.069	0.35	1
01363	Endosulfan I	959-98-8	0.41		0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.74		0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.74		0.069	0.35	1
01363	Endrin	72-20-8	0.95		0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.53		0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.65		0.069	0.35	1
01363	Heptachlor	76-44-8	0.50		0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.36		0.035	0.18	1
01363	Methoxychlor	72-43-5	6.0		0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164624
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	25		0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	9.9		0.34	1.8	1
10225	PCB-1260	11096-82-5	27		0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.14	20.4	1
07914	Boron	7440-42-8	206		0.910	5.11	1
01650	Calcium	7440-70-2	2,930		6.27	20.4	1
01654	Iron	7439-89-6	10,100		4.82	20.4	1
01656	Lithium	7439-93-2	110		0.22	2.0	1
01657	Magnesium	7439-95-4	2,040		2.60	10.2	1
06958	Manganese	7439-96-5	181		0.0797	0.511	1
10145	Phosphorus	7723-14-0	362		0.572	10.2	1
01662	Potassium	7440-09-7	2,590		18.4	51.1	1
01667	Sodium	7440-23-5	1,120		38.1	102	1
07968	Strontium	7440-24-6	126		0.0634	0.511	1
06969	Tin	7440-31-5	394		1.02	10.2	1
06970	Titanium	7440-32-6	540		0.388	1.02	1
10146	Zirconium	7440-67-7	105		0.859	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.989		0.0619	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.47		0.0619	0.413	2
06126	Barium	7440-39-3	57.9		0.112	0.413	2
06127	Beryllium	7440-41-7	1.11		0.0165	0.103	2
06128	Cadmium	7440-43-9	1.22		0.0372	0.103	2
06131	Chromium	7440-47-3	19.8		0.124	0.413	2
06132	Cobalt	7440-48-4	51.3		0.0206	0.103	2
06133	Copper	7440-50-8	16.0		0.0681	0.413	2
06135	Lead	7439-92-1	9.36		0.0107	0.206	2
06138	Molybdenum	7439-98-7	11.0		0.0516	0.103	2
06139	Nickel	7440-02-0	16.0		0.103	0.413	2
06141	Selenium	7782-49-2	2.02		0.0413	0.413	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164624
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	10.4	0.0124	0.103	2
06145	Thallium	7440-28-0	0.557	0.0310	0.103	2
06148	Vanadium	7440-62-2	29.3	0.0227	0.103	2
06149	Zinc	7440-66-6	35.7	0.578	3.10	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.173	0.0029	0.103	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 02:16	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 09:44	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 18:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 22:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 21:21	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 05:33	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:26	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/29/2010 08:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 08:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/29/2010 08:38	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:26	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5MSD Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164624
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103515708008	12/29/2010 08:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	103515708008	12/29/2010 08:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:26	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 08:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA5B-SS-0.0-0.5DUP Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164625
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	6,850		5.19	20.6	1
07914	Boron	7440-42-8	5.13	J	0.919	5.16	1
01650	Calcium	7440-70-2	1,770		6.33	20.6	1
01654	Iron	7439-89-6	9,150		4.86	20.6	1
01656	Lithium	7439-93-2	5.9		0.23	2.1	1
01657	Magnesium	7439-95-4	1,420		2.62	10.3	1
06958	Manganese	7439-96-5	117		0.0805	0.516	1
10145	Phosphorus	7723-14-0	238		0.578	10.3	1
01662	Potassium	7440-09-7	1,160		18.6	51.6	1
01667	Sodium	7440-23-5	40.7	J	38.5	103	1
07968	Strontium	7440-24-6	24.7		0.0640	0.516	1
06969	Tin	7440-31-5	1.93	J	1.03	10.3	1
06970	Titanium	7440-32-6	314		0.392	1.03	1
10146	Zirconium	7440-67-7	2.48	J	0.867	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0619	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.39		0.0619	0.413	2
06126	Barium	7440-39-3	51.4		0.112	0.413	2
06127	Beryllium	7440-41-7	0.257		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.119		0.0372	0.103	2
06131	Chromium	7440-47-3	8.57		0.124	0.413	2
06132	Cobalt	7440-48-4	3.84		0.0206	0.103	2
06133	Copper	7440-50-8	5.43		0.0681	0.413	2
06135	Lead	7439-92-1	6.01		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.335		0.0516	0.103	2
06139	Nickel	7440-02-0	5.13		0.103	0.413	2
06141	Selenium	7782-49-2	0.116	J	0.0413	0.413	2
06142	Silver	7440-22-4	0.0173	J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.0933	J	0.0310	0.103	2
06148	Vanadium	7440-62-2	17.1		0.0227	0.103	2
06149	Zinc	7440-66-6	25.5		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0092	J	0.0029	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SS-0.0-0.5DUP Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164625
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	419	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.39	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3		n.a.	4.1	0.50	0.50	1
11626	28a Moisture Content by 160.3		n.a.	4.0	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:18	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:18	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/29/2010 08:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:18	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 08:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/29/2010 08:30	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:18	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:18	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/29/2010 08:30	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	103515708008	12/29/2010 08:30	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:18	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:18	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:18	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 08:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA5B-SS-0.0-0.5DUP Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164625
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12005 SDG#: DE038-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 03:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 13:54	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10363243202A	01/02/2011 16:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-108-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164626
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11805 SDG#: DE038-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	37	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164626
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11805 SDG#: DE038-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	1.1	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	7.5		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	6.5		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	8.9		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	3.8		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	4.2		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	7.1	J	6.3	19	1
10138	Chrysene	218-01-9	8.8		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.90	J	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	9.4		0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.8		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	3.0		0.70	1.7	1
10138	Pyrene	129-00-0	14		0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	4.5		0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	530	U	530	530	1
10401	MCPP (Mecoprop)	93-65-2	460	U	460	460	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164626
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11805 SDG#: DE038-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36	1
01363	p,p-DDT	50-29-3	0.38	U	0.38	0.38	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.094	U	0.094	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.096	U	0.096	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.19	U	0.19	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	3.3	J	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	2.6		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164626
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11805 SDG#: DE038-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.16	20.5	1
07914	Boron	7440-42-8	8.66		0.913	5.13	1
01650	Calcium	7440-70-2	5,160		6.29	20.5	1
01654	Iron	7439-89-6	25,800		4.83	20.5	1
01656	Lithium	7439-93-2	19.2		0.23	2.1	1
01657	Magnesium	7439-95-4	5,140		2.60	10.3	1
06958	Manganese	7439-96-5	358		0.0800	0.513	1
10145	Phosphorus	7723-14-0	533		0.574	10.3	1
01662	Potassium	7440-09-7	3,890		18.5	51.3	1
01667	Sodium	7440-23-5	174		38.3	103	1
07968	Strontium	7440-24-6	29.3		0.0636	0.513	1
06969	Tin	7440-31-5	2.61	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,500		0.390	1.03	1
10146	Zirconium	7440-67-7	0.861	U	0.861	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0621	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.46		0.0621	0.414	2
06126	Barium	7440-39-3	133		0.112	0.414	2
06127	Beryllium	7440-41-7	0.467		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.183		0.0373	0.104	2
06131	Chromium	7440-47-3	25.4		0.124	0.414	2
06132	Cobalt	7440-48-4	6.76		0.0207	0.104	2
06133	Copper	7440-50-8	16.3		0.0684	0.414	2
06135	Lead	7439-92-1	8.16		0.0108	0.207	2
06138	Molybdenum	7439-98-7	1.13		0.0518	0.104	2
06139	Nickel	7440-02-0	16.2		0.104	0.414	2
06141	Selenium	7782-49-2	0.0656	J	0.0414	0.414	2
06142	Silver	7440-22-4	0.0221	J	0.0124	0.104	2
06145	Thallium	7440-28-0	0.271		0.0311	0.104	2
06148	Vanadium	7440-62-2	44.0		0.0228	0.104	2
06149	Zinc	7440-66-6	79.7		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0376	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164626
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11805 SDG#: DE038-03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	393	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.94	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 03:26	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/05/2011 11:40	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 18:35	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 22:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 21:40	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 05:52	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:44	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 08:56	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-108-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164626
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11805 SDG#: DE038-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:17	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:44	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:44	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 08:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/31/2010 06:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 04:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 15:30	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 16:33	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164627
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11905 SDG#: DE038-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164627
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11905 SDG#: DE038-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.91	J	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.87	J	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	J	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	7.7	J	6.5	19	1
10138	Chrysene	218-01-9	1.8		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	1.5	J	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	7.2	J	6.5	19	1
10138	Phenanthrene	85-01-8	1.1	J	0.72	1.8	1
10138	Pyrene	129-00-0	2.0		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7	1
10401	2,4-DB	94-82-6	4.3	U	4.3	4.3	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	310	U	310	310	1
10401	MCPP (Mecoprop)	93-65-2	810	U	810	2,700	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-119-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164627
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11905 SDG#: DE038-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.68	U	0.68	0.68	1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.37	1
01363	p,p-DDT	50-29-3	0.22	U	0.22	0.37	1
01363	Delta BHC	319-86-8	0.051	J	0.039	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.089	U	0.089	0.37	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.1	2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.1	2
10225	Aroclor 5460	11126-42-4	3.8	J	2.2	7.1	2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.7	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.7	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.7	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.7	2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.7	2
10225	PCB-1254	11097-69-1	31		0.71	3.7	2
10225	PCB-1260	11096-82-5	0.71	U	0.71	3.7	2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.7	2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.7	2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164627
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11905 SDG#: DE038-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,600		5.29	21.0	1
07914	Boron	7440-42-8	9.24		0.935	5.25	1
01650	Calcium	7440-70-2	3,230		6.44	21.0	1
01654	Iron	7439-89-6	28,000		4.95	21.0	1
01656	Lithium	7439-93-2	24.5		0.23	2.1	1
01657	Magnesium	7439-95-4	5,420		2.67	10.5	1
06958	Manganese	7439-96-5	427		0.0820	0.525	1
10145	Phosphorus	7723-14-0	434		0.588	10.5	1
01662	Potassium	7440-09-7	4,930		18.9	52.5	1
01667	Sodium	7440-23-5	98.1	J	39.2	105	1
07968	Strontium	7440-24-6	24.1		0.0651	0.525	1
06969	Tin	7440-31-5	3.09	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,640		0.399	1.05	1
10146	Zirconium	7440-67-7	1.08	J	0.883	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.222		0.0643	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.66		0.0643	0.429	2
06126	Barium	7440-39-3	170		0.116	0.429	2
06127	Beryllium	7440-41-7	0.845		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.235		0.0386	0.107	2
06131	Chromium	7440-47-3	28.8		0.129	0.429	2
06132	Cobalt	7440-48-4	7.67		0.0214	0.107	2
06133	Copper	7440-50-8	15.1		0.0707	0.429	2
06135	Lead	7439-92-1	8.79		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.769		0.0536	0.107	2
06139	Nickel	7440-02-0	18.0		0.107	0.429	2
06141	Selenium	7782-49-2	0.161	J	0.0429	0.429	2
06142	Silver	7440-22-4	0.0445	J	0.0129	0.107	2
06145	Thallium	7440-28-0	0.340		0.0321	0.107	2
06148	Vanadium	7440-62-2	46.8		0.0236	0.107	2
06149	Zinc	7440-66-6	77.5		0.600	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164627
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11905 SDG#: DE038-04

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	416	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.03	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	7.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 04:00	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/05/2011 12:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 19:03	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 22:38	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 21:58	Lindsey K Lafferty	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 06:10	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:48	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/30/2010 10:13	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:00	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164627
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

11905 SDG#: DE038-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:13	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:13	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:48	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:00	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 04:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 15:54	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10363243202A	01/02/2011 16:57	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-240-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164628
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

24005 SDG#: DE038-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-240-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164628
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

24005 SDG#: DE038-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.81	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.96	J	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	1.2	J	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	2.7		0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	200	U	200	260	1
10401	MCPP (Mecoprop)	93-65-2	150	J	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: SL-240-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164628
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

24005 SDG#: DE038-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35	1
01363	p,p-DDT	50-29-3	0.22	U	0.22	0.35	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.066	U	0.066	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	4.8		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.04	20.0	1
07914	Boron	7440-42-8	8.65		0.891	5.01	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164628
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

24005 SDG#: DE038-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	6,410		6.14	20.0	1
01654	Iron	7439-89-6	22,800		4.72	20.0	1
01656	Lithium	7439-93-2	22.2		0.22	2.0	1
01657	Magnesium	7439-95-4	5,000		2.54	10.0	1
06958	Manganese	7439-96-5	315		0.0781	0.501	1
10145	Phosphorus	7723-14-0	458		0.561	10.0	1
01662	Potassium	7440-09-7	3,480		18.0	50.1	1
01667	Sodium	7440-23-5	135		37.4	100	1
07968	Strontium	7440-24-6	35.3		0.0621	0.501	1
06969	Tin	7440-31-5	2.62	J	1.00	10.0	1
06970	Titanium	7440-32-6	1,450		0.381	1.00	1
10146	Zirconium	7440-67-7	2.11	J	0.841	5.01	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0619	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.41		0.0619	0.413	2
06126	Barium	7440-39-3	129		0.111	0.413	2
06127	Beryllium	7440-41-7	0.557		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.147		0.0371	0.103	2
06131	Chromium	7440-47-3	20.6		0.124	0.413	2
06132	Cobalt	7440-48-4	6.25		0.0206	0.103	2
06133	Copper	7440-50-8	12.2		0.0681	0.413	2
06135	Lead	7439-92-1	6.15		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.583		0.0516	0.103	2
06139	Nickel	7440-02-0	12.8		0.103	0.413	2
06141	Selenium	7782-49-2	0.0812	J	0.0413	0.413	2
06142	Silver	7440-22-4	0.0304	J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.274		0.0309	0.103	2
06148	Vanadium	7440-62-2	42.0		0.0227	0.103	2
06149	Zinc	7440-66-6	71.8		0.578	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0229	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-240-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164628
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

24005 SDG#: DE038-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	402	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.20	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 04:35	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 11:50	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 20:25	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 22:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 22:17	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 06:29	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:52	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:27	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:52	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:07	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-240-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164628
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

24005 SDG#: DE038-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:27	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:17	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:17	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:52	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:52	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:07	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 05:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 16:18	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 17:05	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164629
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10905 SDG#: DE038-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164629
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10905 SDG#: DE038-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	1.4	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	15		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	11		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	15		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	4.5		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	6.4		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.4	19	1
10138	Chrysene	218-01-9	17		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	24		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.8		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	7.6		0.71	1.8	1
10138	Pyrene	129-00-0	30		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	4.2		0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	100	U	100	270	1
10401	MCPP (Mecoprop)	93-65-2	340		80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164629
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10905 SDG#: DE038-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.39	U	0.39	0.39	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	2.5		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.13	20.4	1
07914	Boron	7440-42-8	9.42		0.908	5.10	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164629
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10905 SDG#: DE038-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,040		6.26	20.4	1
01654	Iron	7439-89-6	26,500		4.81	20.4	1
01656	Lithium	7439-93-2	23.5		0.22	2.0	1
01657	Magnesium	7439-95-4	4,670		2.59	10.2	1
06958	Manganese	7439-96-5	307		0.0796	0.510	1
10145	Phosphorus	7723-14-0	427		0.572	10.2	1
01662	Potassium	7440-09-7	3,240		18.4	51.0	1
01667	Sodium	7440-23-5	133		38.1	102	1
07968	Strontium	7440-24-6	25.5		0.0633	0.510	1
06969	Tin	7440-31-5	2.66	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,400		0.388	1.02	1
10146	Zirconium	7440-67-7	1.54	J	0.857	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0618	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.97		0.0618	0.412	2
06126	Barium	7440-39-3	120		0.111	0.412	2
06127	Beryllium	7440-41-7	0.720		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.152		0.0371	0.103	2
06131	Chromium	7440-47-3	21.5		0.124	0.412	2
06132	Cobalt	7440-48-4	5.79		0.0206	0.103	2
06133	Copper	7440-50-8	16.1		0.0680	0.412	2
06135	Lead	7439-92-1	6.93		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.646		0.0515	0.103	2
06139	Nickel	7440-02-0	12.6		0.103	0.412	2
06141	Selenium	7782-49-2	0.0757	J	0.0412	0.412	2
06142	Silver	7440-22-4	0.0289	J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.288		0.0309	0.103	2
06148	Vanadium	7440-62-2	43.7		0.0227	0.103	2
06149	Zinc	7440-66-6	64.5		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0156	J	0.0029	0.0995	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164629
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10905 SDG#: DE038-06

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	410	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.11	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 05:09	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 12:22	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 20:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 23:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 22:36	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 06:47	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:55	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:11	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-109-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164629
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10905 SDG#: DE038-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:30	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:21	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:21	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:55	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:11	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 05:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 16:42	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 17:21	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164630
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12205 SDG#: DE038-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164630
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12205 SDG#: DE038-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.90	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.97	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.92	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.77	J	0.71	1.8	1
10138	Pyrene	129-00-0	1.0	J	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	8.0		0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	990		80	260	1
10401	MCPP (Mecoprop)	93-65-2	240	J	79	260	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.33	U	0.33	0.33	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-122-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164630
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12205 SDG#: DE038-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.13	U	0.13	0.36	1
01363	p,p-DDT	50-29-3	0.16	U	0.16	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	2.0		0.35	1.8	1
10225	PCB-1260	11096-82-5	1.0	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.27	21.0	1
07914	Boron	7440-42-8	7.70		0.932	5.24	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164630
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12205 SDG#: DE038-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,290		6.42	21.0	1
01654	Iron	7439-89-6	16,300		4.93	21.0	1
01656	Lithium	7439-93-2	15.4		0.23	2.1	1
01657	Magnesium	7439-95-4	3,150		2.66	10.5	1
06958	Manganese	7439-96-5	233		0.0817	0.524	1
10145	Phosphorus	7723-14-0	369		0.587	10.5	1
01662	Potassium	7440-09-7	3,020		18.9	52.4	1
01667	Sodium	7440-23-5	70.0	J	39.1	105	1
07968	Strontium	7440-24-6	21.1		0.0650	0.524	1
06969	Tin	7440-31-5	2.31	J	1.05	10.5	1
06970	Titanium	7440-32-6	902		0.398	1.05	1
10146	Zirconium	7440-67-7	1.81	J	0.880	5.24	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0611	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.98		0.0611	0.407	2
06126	Barium	7440-39-3	102		0.110	0.407	2
06127	Beryllium	7440-41-7	0.531		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.182		0.0366	0.102	2
06131	Chromium	7440-47-3	19.2		0.122	0.407	2
06132	Cobalt	7440-48-4	5.19		0.0204	0.102	2
06133	Copper	7440-50-8	10.9		0.0672	0.407	2
06135	Lead	7439-92-1	7.63		0.0106	0.204	2
06138	Molybdenum	7439-98-7	0.566		0.0509	0.102	2
06139	Nickel	7440-02-0	11.6		0.102	0.407	2
06141	Selenium	7782-49-2	0.120	J	0.0407	0.407	2
06142	Silver	7440-22-4	0.0169	J	0.0122	0.102	2
06145	Thallium	7440-28-0	0.229		0.0305	0.102	2
06148	Vanadium	7440-62-2	33.8		0.0224	0.102	2
06149	Zinc	7440-66-6	51.2		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0044	J	0.0028	0.0988	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-122-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164630
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12205 SDG#: DE038-07

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	444	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.58	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 09:03	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 12:54	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 21:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 23:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 22:54	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 07:06	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 14:59	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 14:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 14:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:15	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164630
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12205 SDG#: DE038-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 14:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 14:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:25	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:25	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 14:59	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 14:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 14:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:15	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 05:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 17:06	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10363243202A	01/02/2011 17:45	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-121-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164631
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12105 SDG#: DE038-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164631
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12105 SDG#: DE038-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	4.4		0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	420	U	420	420	1
10401	MCPP (Mecoprop)	93-65-2	240	U	240	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164631
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12105 SDG#: DE038-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.093	J	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.36		0.070	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.13	J	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

The LCS recoveries for various compounds are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.23	20.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164631
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12105 SDG#: DE038-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	8.99		0.925	5.20	1
01650	Calcium	7440-70-2	3,820		6.37	20.8	1
01654	Iron	7439-89-6	22,300		4.90	20.8	1
01656	Lithium	7439-93-2	21.2		0.23	2.1	1
01657	Magnesium	7439-95-4	4,540		2.64	10.4	1
06958	Manganese	7439-96-5	341		0.0811	0.520	1
10145	Phosphorus	7723-14-0	458		0.582	10.4	1
01662	Potassium	7440-09-7	3,780		18.7	52.0	1
01667	Sodium	7440-23-5	86.8	J	38.8	104	1
07968	Strontium	7440-24-6	20.4		0.0645	0.520	1
06969	Tin	7440-31-5	2.53	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,280		0.395	1.04	1
10146	Zirconium	7440-67-7	1.93	J	0.873	5.20	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0624	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.88		0.0624	0.416	2
06126	Barium	7440-39-3	124		0.112	0.416	2
06127	Beryllium	7440-41-7	0.623		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.227		0.0374	0.104	2
06131	Chromium	7440-47-3	22.3		0.125	0.416	2
06132	Cobalt	7440-48-4	6.14		0.0208	0.104	2
06133	Copper	7440-50-8	12.6		0.0686	0.416	2
06135	Lead	7439-92-1	11.1		0.0108	0.208	2
06138	Molybdenum	7439-98-7	0.664		0.0520	0.104	2
06139	Nickel	7440-02-0	14.2		0.104	0.416	2
06141	Selenium	7782-49-2	0.158	J	0.0416	0.416	2
06142	Silver	7440-22-4	0.0291	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.262		0.0312	0.104	2
06148	Vanadium	7440-62-2	39.1		0.0229	0.104	2
06149	Zinc	7440-66-6	62.1		0.582	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0048	J	0.0028	0.0990	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164631
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12105 SDG#: DE038-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	447	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.49	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 09:37	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 13:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 21:48	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 23:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 07:24	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:03	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:37	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:19	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:37	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:03	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164631
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12105 SDG#: DE038-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:29	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:29	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:03	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:19	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/31/2010 06:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 05:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 17:30	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10363243202A	01/02/2011 18:01	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164632
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

05405 SDG#: DE038-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Anthracene	120-12-7	30	J	18	180	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzo(a)anthracene	56-55-3	110	J	18	180	1
04688	Benzo(a)pyrene	50-32-8	69	J	18	180	1
04688	Benzo(b)fluoranthene	205-99-2	74	J	18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	31	J	18	180	1
04688	Benzo(k)fluoranthene	207-08-9	32	J	18	180	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Chrysene	218-01-9	130	J	18	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Fluoranthene	206-44-0	200		18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	32	J	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164632
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

05405 SDG#: DE038-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenanthrene	85-01-8	75	J	18	180	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	230		18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	J	6.4	19	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	1.6	J	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164632
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

05405 SDG#: DE038-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	1.3	U	1.3	3.6	1
01363	p,p-DDD	72-54-8	0.61	U	0.61	0.61	1
01363	p,p-DDE	72-55-9	0.37	U	0.37	0.37	1
01363	p,p-DDT	50-29-3	0.44	U	0.44	0.44	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.26	U	0.26	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.22	U	0.22	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.045	U	0.045	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.49	U	0.49	0.49	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	6.4		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	1.5	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.21	20.7	1
07914	Boron	7440-42-8	9.07		0.921	5.18	1
01650	Calcium	7440-70-2	7,360		6.34	20.7	1
01654	Iron	7439-89-6	22,500		4.88	20.7	1
01656	Lithium	7439-93-2	19.7		0.23	2.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164632
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

05405 SDG#: DE038-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,710		2.63	10.4	1
06958	Manganese	7439-96-5	303		0.0807	0.518	1
10145	Phosphorus	7723-14-0	495		0.580	10.4	1
01662	Potassium	7440-09-7	3,230		18.6	51.8	1
01667	Sodium	7440-23-5	138		38.6	104	1
07968	Strontium	7440-24-6	35.1		0.0642	0.518	1
06969	Tin	7440-31-5	2.78	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,310		0.393	1.04	1
10146	Zirconium	7440-67-7	1.62	J	0.869	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.225		0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.00		0.0633	0.422	2
06126	Barium	7440-39-3	131		0.114	0.422	2
06127	Beryllium	7440-41-7	0.579		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.227		0.0380	0.106	2
06131	Chromium	7440-47-3	24.1		0.127	0.422	2
06132	Cobalt	7440-48-4	5.80		0.0211	0.106	2
06133	Copper	7440-50-8	12.9		0.0697	0.422	2
06135	Lead	7439-92-1	7.07		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.674		0.0528	0.106	2
06139	Nickel	7440-02-0	13.8		0.106	0.422	2
06141	Selenium	7782-49-2	0.104	J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0379	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.324		0.0317	0.106	2
06148	Vanadium	7440-62-2	42.7		0.0232	0.106	2
06149	Zinc	7440-66-6	81.9		0.591	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0220	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	440		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164632
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

05405 SDG#: DE038-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.80	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 10:12	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 13:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 22:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/10/2011 23:49	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 23:31	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 07:43	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:07	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:41	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:23	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:41	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:33	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:33	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164632
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

05405 SDG#: DE038-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:07	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:23	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 06:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 17:54	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 18:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164633
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10505 SDG#: DE038-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164633
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10505 SDG#: DE038-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.89	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	7.4	J	6.3	19	1
10138	Chrysene	218-01-9	1.1	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.89	J	0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	4.3		0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	290		79	260	1
10401	MCPP (Mecoprop)	93-65-2	96	U	96	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-105-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164633
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10505 SDG#: DE038-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.5	1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.35	1
01363	p,p-DDE	72-55-9	0.20	U	0.20	0.35	1
01363	p,p-DDT	50-29-3	0.24	U	0.24	0.35	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.094	U	0.094	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	6.9	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	6.9	2
10225	Aroclor 5460	11126-42-4	4.6	J	2.1	6.9	2
10225	PCB-1016	12674-11-2	0.69	U	0.69	3.5	2
10225	PCB-1221	11104-28-2	1.0	U	1.0	3.5	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.5	2
10225	PCB-1242	53469-21-9	1.0	U	1.0	3.5	2
10225	PCB-1248	12672-29-6	0.69	U	0.69	3.5	2
10225	PCB-1254	11097-69-1	30		0.69	3.5	2
10225	PCB-1260	11096-82-5	0.69	U	0.69	3.5	2
10225	PCB-1262	37324-23-5	0.69	U	0.69	3.5	2
10225	PCB-1268	11100-14-4	0.69	U	0.69	3.5	2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164633
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10505 SDG#: DE038-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.20	20.7	1
07914	Boron	7440-42-8	8.56		0.920	5.17	1
01650	Calcium	7440-70-2	6,520		6.34	20.7	1
01654	Iron	7439-89-6	27,000		4.87	20.7	1
01656	Lithium	7439-93-2	18.1		0.23	2.1	1
01657	Magnesium	7439-95-4	5,240		2.63	10.3	1
06958	Manganese	7439-96-5	343		0.0806	0.517	1
10145	Phosphorus	7723-14-0	762		0.579	10.3	1
01662	Potassium	7440-09-7	3,870		18.6	51.7	1
01667	Sodium	7440-23-5	179		38.5	103	1
07968	Strontium	7440-24-6	30.0		0.0641	0.517	1
06969	Tin	7440-31-5	2.60	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,340		0.393	1.03	1
10146	Zirconium	7440-67-7	0.868	U	0.868	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0614	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.15		0.0614	0.409	2
06126	Barium	7440-39-3	140		0.111	0.409	2
06127	Beryllium	7440-41-7	0.427		0.0164	0.102	2
06128	Cadmium	7440-43-9	0.211		0.0368	0.102	2
06131	Chromium	7440-47-3	23.5		0.123	0.409	2
06132	Cobalt	7440-48-4	6.24		0.0205	0.102	2
06133	Copper	7440-50-8	16.5		0.0675	0.409	2
06135	Lead	7439-92-1	9.06		0.0106	0.205	2
06138	Molybdenum	7439-98-7	1.43		0.0512	0.102	2
06139	Nickel	7440-02-0	15.6		0.102	0.409	2
06141	Selenium	7782-49-2	0.0577	J	0.0409	0.409	2
06142	Silver	7440-22-4	0.0340	J	0.0123	0.102	2
06145	Thallium	7440-28-0	0.294		0.0307	0.102	2
06148	Vanadium	7440-62-2	43.3		0.0225	0.102	2
06149	Zinc	7440-66-6	96.1		0.573	3.07	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0207	J	0.0028	0.0979	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164633
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10505 SDG#: DE038-10

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	421	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.81	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 10:46	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 14:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 22:43	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 00:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/23/2010 23:50	Lindsey K Lafferty	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 09:02	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:11	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:44	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/30/2010 10:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:27	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164633
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10505 SDG#: DE038-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:44	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:11	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:27	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203A	01/11/2011 06:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202A	01/03/2011 18:18	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 18:25	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203A	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202A	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164634
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09805 SDG#: DE038-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164634
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09805 SDG#: DE038-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.2	19	1
10138	Chrysene	218-01-9	2.2		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	2.7		0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.99	J	0.69	1.7	1
10138	Pyrene	129-00-0	2.9		0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	2.5		0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	150	J	77	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164634
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09805 SDG#: DE038-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35	1
01363	p,p-DDT	50-29-3	0.068	U	0.068	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	34	10
10225	Aroclor 5442	12642-23-8	10	U	10	34	10
10225	Aroclor 5460	11126-42-4	10	U	10	34	10
10225	PCB-1016	12674-11-2	3.4	U	3.4	18	10
10225	PCB-1221	11104-28-2	5.2	U	5.2	18	10
10225	PCB-1232	11141-16-5	5.4	U	5.4	18	10
10225	PCB-1242	53469-21-9	5.2	U	5.2	18	10
10225	PCB-1248	12672-29-6	3.4	U	3.4	18	10
10225	PCB-1254	11097-69-1	4.9	J	3.4	18	10
10225	PCB-1260	11096-82-5	3.4	U	3.4	18	10
10225	PCB-1262	37324-23-5	3.4	U	3.4	18	10
10225	PCB-1268	11100-14-4	3.4	U	3.4	18	10

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300	5.14	20.5	1
07914	Boron	7440-42-8	8.72	0.910	5.11	1
01650	Calcium	7440-70-2	7,920	6.27	20.5	1
01654	Iron	7439-89-6	22,800	4.82	20.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-098-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164634
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09805 SDG#: DE038-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	18.4		0.23	2.0	1
01657	Magnesium	7439-95-4	5,590		2.60	10.2	1
06958	Manganese	7439-96-5	312		0.0798	0.511	1
10145	Phosphorus	7723-14-0	634		0.573	10.2	1
01662	Potassium	7440-09-7	4,600		18.4	51.1	1
01667	Sodium	7440-23-5	180		38.2	102	1
07968	Strontium	7440-24-6	26.7		0.0634	0.511	1
06969	Tin	7440-31-5	2.25	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,590		0.389	1.02	1
10146	Zirconium	7440-67-7	1.40	J	0.859	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0608	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.81		0.0608	0.405	2
06126	Barium	7440-39-3	127		0.109	0.405	2
06127	Beryllium	7440-41-7	0.365		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.176		0.0365	0.101	2
06131	Chromium	7440-47-3	18.8		0.122	0.405	2
06132	Cobalt	7440-48-4	7.01		0.0203	0.101	2
06133	Copper	7440-50-8	13.1		0.0668	0.405	2
06135	Lead	7439-92-1	7.00		0.0105	0.203	2
06138	Molybdenum	7439-98-7	0.472		0.0506	0.101	2
06139	Nickel	7440-02-0	10.6		0.101	0.405	2
06141	Selenium	7782-49-2	0.0689	J	0.0405	0.405	2
06142	Silver	7440-22-4	0.0257	J	0.0122	0.101	2
06145	Thallium	7440-28-0	0.244		0.0304	0.101	2
06148	Vanadium	7440-62-2	45.6		0.0223	0.101	2
06149	Zinc	7440-66-6	71.9		0.567	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0248	J	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	405		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-098-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164634
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09805 SDG#: DE038-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.71	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	3.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 11:21	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 15:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 23:10	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103500020A	12/21/2010 17:57	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 00:18	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 09:39	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103500020A	12/17/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:15	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 06:57	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:15	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-098-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164634
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

09805 SDG#: DE038-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 06:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:52	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:52	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:15	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:41	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 06:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 18:42	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 18:41	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-142-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164635
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14205 SDG#: DE038-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164635
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14205 SDG#: DE038-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.41	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	1.1	J	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	91	J	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164635
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14205 SDG#: DE038-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.36	J	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.13	J	0.070	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.15	J	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

The LCS recoveries for various compounds are outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300	5.26	20.9	1
07914	Boron	7440-42-8	7.44	0.930	5.23	1
01650	Calcium	7440-70-2	3,390	6.41	20.9	1
01654	Iron	7439-89-6	24,400	4.92	20.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-142-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164635
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14205 SDG#: DE038-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	27.2		0.23	2.1	1
01657	Magnesium	7439-95-4	5,400		2.65	10.5	1
06958	Manganese	7439-96-5	339		0.0815	0.523	1
10145	Phosphorus	7723-14-0	487		0.585	10.5	1
01662	Potassium	7440-09-7	2,650		18.8	52.3	1
01667	Sodium	7440-23-5	77.6	J	39.0	105	1
07968	Strontium	7440-24-6	18.9		0.0648	0.523	1
06969	Tin	7440-31-5	3.07	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,380		0.397	1.05	1
10146	Zirconium	7440-67-7	1.88	J	0.878	5.23	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.125	J	0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.72		0.0633	0.422	2
06126	Barium	7440-39-3	116		0.114	0.422	2
06127	Beryllium	7440-41-7	0.664		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.120		0.0380	0.106	2
06131	Chromium	7440-47-3	24.4		0.127	0.422	2
06132	Cobalt	7440-48-4	6.99		0.0211	0.106	2
06133	Copper	7440-50-8	9.29		0.0697	0.422	2
06135	Lead	7439-92-1	6.58		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.518		0.0528	0.106	2
06139	Nickel	7440-02-0	13.9		0.106	0.422	2
06141	Selenium	7782-49-2	0.144	J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0225	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.289		0.0317	0.106	2
06148	Vanadium	7440-62-2	46.6		0.0232	0.106	2
06149	Zinc	7440-66-6	61.6		0.591	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0042	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	418		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-142-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164635
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14205 SDG#: DE038-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.67	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 11:56	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 15:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/28/2010 23:38	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 00:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 09:58	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:19	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 07:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 07:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:19	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-142-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164635
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14205 SDG#: DE038-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 10:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 10:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:19	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 07:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 20:19	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 18:57	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164636
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14305 SDG#: DE038-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164636
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14305 SDG#: DE038-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.57	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	1.1	J	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.88	J	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3	1
10401	2,4-DB	94-82-6	3.7	U	3.7	3.7	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	370		78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164636
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14305 SDG#: DE038-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35	1
01363	p,p-DDT	50-29-3	0.069	U	0.069	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.10	U	0.10	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.16	U	0.16	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.044	U	0.044	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.21	U	0.21	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.1	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.67	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.51	J	0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164636
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14305 SDG#: DE038-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.17	20.6	1
07914	Boron	7440-42-8	8.39		0.915	5.14	1
01650	Calcium	7440-70-2	2,770		6.30	20.6	1
01654	Iron	7439-89-6	22,900		4.84	20.6	1
01656	Lithium	7439-93-2	23.8		0.23	2.1	1
01657	Magnesium	7439-95-4	4,560		2.61	10.3	1
06958	Manganese	7439-96-5	306		0.0802	0.514	1
10145	Phosphorus	7723-14-0	778		0.576	10.3	1
01662	Potassium	7440-09-7	3,870		18.5	51.4	1
01667	Sodium	7440-23-5	70.1	J	38.3	103	1
07968	Strontium	7440-24-6	17.0		0.0637	0.514	1
06969	Tin	7440-31-5	2.62	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,270		0.391	1.03	1
10146	Zirconium	7440-67-7	1.72	J	0.864	5.14	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	J	0.0617	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.52		0.0617	0.411	2
06126	Barium	7440-39-3	90.8		0.111	0.411	2
06127	Beryllium	7440-41-7	0.620		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0929	J	0.0370	0.103	2
06131	Chromium	7440-47-3	20.1		0.123	0.411	2
06132	Cobalt	7440-48-4	5.26		0.0206	0.103	2
06133	Copper	7440-50-8	9.59		0.0679	0.411	2
06135	Lead	7439-92-1	5.37		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.558		0.0514	0.103	2
06139	Nickel	7440-02-0	12.2		0.103	0.411	2
06141	Selenium	7782-49-2	0.112	J	0.0411	0.411	2
06142	Silver	7440-22-4	0.0330	J	0.0123	0.103	2
06145	Thallium	7440-28-0	0.200		0.0308	0.103	2
06148	Vanadium	7440-62-2	36.0		0.0226	0.103	2
06149	Zinc	7440-66-6	57.2		0.576	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164636
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14305 SDG#: DE038-13

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	436	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.15	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	3.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 12:30	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 16:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/29/2010 00:05	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 00:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/24/2010 00:45	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 10:16	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:30	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 07:04	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:49	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-143-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164636
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

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14420 Albemarle Point Place
Suite 210
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14305 SDG#: DE038-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 07:04	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 11:00	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 11:00	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:30	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:30	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 13:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 13:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 13:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 13:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 07:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 20:43	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 19:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102A	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402A	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-123-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164637
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12305 SDG#: DE038-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	21	J	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	89	J	18	350	1
04688	Fluoranthene	206-44-0	33	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164637
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12305 SDG#: DE038-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenanthrene	85-01-8	22	J	18	180	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	30	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	1.0	J	0.35	1.8	1
10138	Anthracene	120-12-7	3.1		0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	11		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	9.4		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	18		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	4.5		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	7.9		0.71	1.8	1
10138	Di-n-butylphthalate	84-74-2	12	J	6.4	19	1
10138	Chrysene	218-01-9	22		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluorene	86-73-7	1.2	J	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.0		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	3.2		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	3.6		0.71	1.8	1
10138	Naphthalene	91-20-3	2.3		0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	4.7	U	4.7	4.7	1
10401	Dicamba	1918-00-9	0.51	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	240	J	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent

Sample Description: **SL-123-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164637
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12305 SDG#: DE038-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.46		0.036	0.18	1
01363	Beta BHC	319-85-7	0.097	U	0.097	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	3.2		0.35	1.8	5
01363	p,p-DDT	50-29-3	4.2		0.35	1.8	5
01363	Delta BHC	319-86-8	0.12	J	0.038	0.18	1
01363	Dieldrin	60-57-1	1.2	U	1.2	1.2	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	2.2		0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.27		0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.45		0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	The LCS recoveries for various compounds are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported dieldrin represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: beta-BHC. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164637
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12305 SDG#: DE038-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.15	20.5	1
07914	Boron	7440-42-8	8.17		0.911	5.12	1
01650	Calcium	7440-70-2	2,760		6.28	20.5	1
01654	Iron	7439-89-6	19,600		4.82	20.5	1
01656	Lithium	7439-93-2	20.3		0.23	2.0	1
01657	Magnesium	7439-95-4	4,130		2.60	10.2	1
06958	Manganese	7439-96-5	275		0.0799	0.512	1
10145	Phosphorus	7723-14-0	449		0.573	10.2	1
01662	Potassium	7440-09-7	2,780		18.4	51.2	1
01667	Sodium	7440-23-5	75.6	J	38.2	102	1
07968	Strontium	7440-24-6	18.6		0.0635	0.512	1
06969	Tin	7440-31-5	2.76	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,130		0.389	1.02	1
10146	Zirconium	7440-67-7	1.69	J	0.860	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.353		0.0626	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.41		0.0626	0.418	2
06126	Barium	7440-39-3	114		0.113	0.418	2
06127	Beryllium	7440-41-7	0.618		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.280		0.0376	0.104	2
06131	Chromium	7440-47-3	26.2		0.125	0.418	2
06132	Cobalt	7440-48-4	7.37		0.0209	0.104	2
06133	Copper	7440-50-8	13.4		0.0689	0.418	2
06135	Lead	7439-92-1	44.4		0.0109	0.209	2
06138	Molybdenum	7439-98-7	1.06		0.0522	0.104	2
06139	Nickel	7440-02-0	16.2		0.104	0.418	2
06141	Selenium	7782-49-2	0.209	J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0993	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.186		0.0313	0.104	2
06148	Vanadium	7440-62-2	42.4		0.0230	0.104	2
06149	Zinc	7440-66-6	105		0.585	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0225	J	0.0029	0.0995	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.85	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-123-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164637
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12305 SDG#: DE038-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	449		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.40		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	6.1		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 13:05	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 16:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/29/2010 00:33	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 01:00	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/16/2011 21:43	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 10:35	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-123-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164637
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12305 SDG#: DE038-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:34	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 07:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:34	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 07:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 11:04	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 11:04	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:34	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:34	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 14:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/31/2010 06:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 14:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 14:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/31/2010 06:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 14:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 08:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 21:07	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10363243202A	01/02/2011 19:53	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-123-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164637
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12305 SDG#: DE038-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-124-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164638
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12405 SDG#: DE038-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-124-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164638
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12405 SDG#: DE038-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.82	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	1.1	J	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.77	J	0.70	1.8	1
10138	Pyrene	129-00-0	1.2	J	0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.52	U	0.52	1.3	1
10401	Dinoseb	88-85-7	1.5	U	1.5	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	47		0.84	1.8	1
10401	MCPA	94-74-6	80	U	80	260	1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-124-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164638
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12405 SDG#: DE038-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	attained.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	1.5	U	1.5	1.5	1
01363	p,p-DDE	72-55-9	0.55	U	0.55	0.55	1
01363	p,p-DDT	50-29-3	1.7	U	1.7	1.7	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.35	U	0.35	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.093	U	0.093	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	4.8		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	10		0.35	1.8	1
10225	PCB-1260	11096-82-5	3.5		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-124-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164638
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12405 SDG#: DE038-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.15	20.5	1
07914	Boron	7440-42-8	9.25		0.911	5.12	1
01650	Calcium	7440-70-2	3,280		6.28	20.5	1
01654	Iron	7439-89-6	25,900		4.82	20.5	1
01656	Lithium	7439-93-2	25.3		0.23	2.0	1
01657	Magnesium	7439-95-4	5,200		2.60	10.2	1
06958	Manganese	7439-96-5	375		0.0799	0.512	1
10145	Phosphorus	7723-14-0	584		0.574	10.2	1
01662	Potassium	7440-09-7	4,950		18.4	51.2	1
01667	Sodium	7440-23-5	83.6	J	38.2	102	1
07968	Strontium	7440-24-6	22.7		0.0635	0.512	1
06969	Tin	7440-31-5	3.05	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,470		0.389	1.02	1
10146	Zirconium	7440-67-7	2.30	J	0.860	5.12	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.238		0.0627	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.25		0.0627	0.418	2
06126	Barium	7440-39-3	176		0.113	0.418	2
06127	Beryllium	7440-41-7	0.841		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.359		0.0376	0.104	2
06131	Chromium	7440-47-3	32.2		0.125	0.418	2
06132	Cobalt	7440-48-4	8.02		0.0209	0.104	2
06133	Copper	7440-50-8	16.9		0.0689	0.418	2
06135	Lead	7439-92-1	17.7		0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.937		0.0522	0.104	2
06139	Nickel	7440-02-0	18.6		0.104	0.418	2
06141	Selenium	7782-49-2	0.181	J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0973	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.348		0.0313	0.104	2
06148	Vanadium	7440-62-2	55.1		0.0230	0.104	2
06149	Zinc	7440-66-6	100		0.585	3.13	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0143	J	0.0030	0.105	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.84	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-124-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164638
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12405 SDG#: DE038-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	478		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.79		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 13:40	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 17:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/29/2010 01:55	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 01:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/24/2010 02:37	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 10:53	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:38	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:38	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-124-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164638
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12405 SDG#: DE038-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 07:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:38	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 09:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 07:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 11:08	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 11:08	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:38	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:38	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 09:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 14:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/31/2010 07:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 14:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 14:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 14:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 08:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 21:31	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10363243202A	01/02/2011 20:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-124-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164638
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12405 SDG#: DE038-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-309-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164639
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

30905 SDG#: DE038-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	20	J	17	170	1
04688	Benzo(a)pyrene	50-32-8	18	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	17	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350	1
04688	Fluoranthene	206-44-0	18	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-309-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164639
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

30905 SDG#: DE038-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	23	J	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.52	J	0.35	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	5.5		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	7.6	J	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	7.5	J	6.3	19	1
10138	Chrysene	218-01-9	9.4		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.8		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.70	J	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-309-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164639
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

30905 SDG#: DE038-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35	1
01363	p,p-DDT	50-29-3	0.069	U	0.069	0.35	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.094	U	0.094	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.86	J	0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,800		5.19	20.6	1
07914	Boron	7440-42-8	9.14		0.918	5.16	1
01650	Calcium	7440-70-2	3,950		6.32	20.6	1
01654	Iron	7439-89-6	18,000		4.86	20.6	1
01656	Lithium	7439-93-2	19.1		0.23	2.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-309-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164639
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

30905 SDG#: DE038-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,380		2.62	10.3	1
06958	Manganese	7439-96-5	254		0.0804	0.516	1
10145	Phosphorus	7723-14-0	417		0.578	10.3	1
01662	Potassium	7440-09-7	2,790		18.6	51.6	1
01667	Sodium	7440-23-5	483		38.5	103	1
07968	Strontium	7440-24-6	19.2		0.0639	0.516	1
06969	Tin	7440-31-5	2.40	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,160		0.392	1.03	1
10146	Zirconium	7440-67-7	1.25	J	0.866	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.318		0.0601	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.83		0.0601	0.401	2
06126	Barium	7440-39-3	98.2		0.108	0.401	2
06127	Beryllium	7440-41-7	0.404		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.114		0.0361	0.100	2
06131	Chromium	7440-47-3	17.9		0.120	0.401	2
06132	Cobalt	7440-48-4	5.45		0.0200	0.100	2
06133	Copper	7440-50-8	11.0		0.0661	0.401	2
06135	Lead	7439-92-1	5.25		0.0104	0.200	2
06138	Molybdenum	7439-98-7	0.734		0.0501	0.100	2
06139	Nickel	7440-02-0	9.84		0.100	0.401	2
06141	Selenium	7782-49-2	0.135	J	0.0401	0.401	2
06142	Silver	7440-22-4	0.0146	J	0.0120	0.100	2
06145	Thallium	7440-28-0	0.256		0.0300	0.100	2
06148	Vanadium	7440-62-2	35.5		0.0220	0.100	2
06149	Zinc	7440-66-6	73.9		0.561	3.00	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0061	J	0.0028	0.0985	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	438		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-309-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164639
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

30905 SDG#: DE038-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.79	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 14:15	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/04/2011 17:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	01/07/2011 09:33	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 02:54	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 11:12	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:41	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 07:14	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 10:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 07:14	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 11:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 11:12	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:41	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-309-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164639
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

30905 SDG#: DE038-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 10:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 14:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 14:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 14:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 14:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 08:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 21:55	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 20:17	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-311-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164640
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31105 SDG#: DE038-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-311-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164640
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31105 SDG#: DE038-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.9	J	3.6	9.0	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0	5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0	5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	9.0	5
10138	Benzo(a)pyrene	50-32-8	3.6	U	3.6	9.0	5
10138	Benzo(b)fluoranthene	205-99-2	3.6	U	3.6	9.0	5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.0	5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.0	5
10138	Butylbenzylphthalate	85-68-7	33	U	33	98	5
10138	Di-n-butylphthalate	84-74-2	33	U	33	98	5
10138	Chrysene	218-01-9	1.8	U	1.8	9.0	5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0	5
10138	Diethylphthalate	84-66-2	33	U	33	98	5
10138	Dimethylphthalate	131-11-3	120		33	98	5
10138	Fluoranthene	206-44-0	3.6	U	3.6	9.0	5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.0	5
10138	1-Methylnaphthalene	90-12-0	6.2	J	3.6	9.0	5
10138	2-Methylnaphthalene	91-57-6	9.8		3.6	9.0	5
10138	Naphthalene	91-20-3	170		3.6	9.0	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0	5
10138	Di-n-octylphthalate	117-84-0	33	U	33	98	5
10138	Phenanthrene	85-01-8	3.6	U	3.6	9.0	5
10138	Pyrene	129-00-0	3.6	U	3.6	9.0	5
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	6.5		0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	150	U	150	270	1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-311-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164640
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31105 SDG#: DE038-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	attained.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	1.2	U	1.2	3.7	1
01363	p,p-DDD	72-54-8	0.30	U	0.30	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.25	U	0.25	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.085	U	0.085	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.44	U	0.44	0.44	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	3.6		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	3.9		0.36	1.8	1
10225	PCB-1260	11096-82-5	3.9		0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

Sample Description: **SL-311-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164640
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31105 SDG#: DE038-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.40	21.5	1
07914	Boron	7440-42-8	9.87		0.955	5.36	1
01650	Calcium	7440-70-2	6,910		6.58	21.5	1
01654	Iron	7439-89-6	17,800		5.05	21.5	1
01656	Lithium	7439-93-2	15.1		0.24	2.1	1
01657	Magnesium	7439-95-4	3,850		2.72	10.7	1
06958	Manganese	7439-96-5	320		0.0837	0.536	1
10145	Phosphorus	7723-14-0	503		0.601	10.7	1
01662	Potassium	7440-09-7	2,510		19.3	53.6	1
01667	Sodium	7440-23-5	389		40.0	107	1
07968	Strontium	7440-24-6	57.0		0.0665	0.536	1
06969	Tin	7440-31-5	1.88	J	1.07	10.7	1
06970	Titanium	7440-32-6	997		0.408	1.07	1
10146	Zirconium	7440-67-7	3.31	J	0.901	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.251		0.0631	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.91		0.0631	0.421	2
06126	Barium	7440-39-3	100		0.114	0.421	2
06127	Beryllium	7440-41-7	0.400		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.307		0.0379	0.105	2
06131	Chromium	7440-47-3	29.7		0.126	0.421	2
06132	Cobalt	7440-48-4	5.35		0.0210	0.105	2
06133	Copper	7440-50-8	13.5		0.0694	0.421	2
06135	Lead	7439-92-1	8.67		0.0109	0.210	2
06138	Molybdenum	7439-98-7	1.16		0.0526	0.105	2
06139	Nickel	7440-02-0	13.8		0.105	0.421	2
06141	Selenium	7782-49-2	0.232	J	0.0421	0.421	2
06142	Silver	7440-22-4	0.103	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.198		0.0316	0.105	2
06148	Vanadium	7440-62-2	36.0		0.0231	0.105	2
06149	Zinc	7440-66-6	182		1.47	7.89	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0132	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-311-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164640
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31105 SDG#: DE038-17

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	422	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	9.31	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	7.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 14:50	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/05/2011 12:43	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/29/2010 02:50	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 03:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/24/2010 03:14	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 12:44	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:45	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 11:16	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 10:05	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-311-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164640
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31105 SDG#: DE038-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 11:16	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 11:16	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 11:16	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:45	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:45	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 10:05	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 14:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 14:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 14:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 14:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/31/2010 07:01	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 08:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 22:19	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 20:33	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-310-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164641
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31005 SDG#: DE038-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-310-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164641
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31005 SDG#: DE038-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.40	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	7.3		0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	6.9		0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	9.7		0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.9		0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	4.1		0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.3	19	1
10138	Chrysene	218-01-9	7.2		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	J	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	7.2		0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.5		0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.99	J	0.70	1.8	1
10138	Pyrene	129-00-0	8.9		0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	1.0	U	1.0	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	1.8	1
10401	MCPA	94-74-6	98	J	80	260	1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-310-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164641
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31005 SDG#: DE038-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.4	U	1.4	3.5	20
01363	Alpha BHC	319-84-6	0.72	U	0.72	3.5	20
01363	Beta BHC	319-85-7	1.3	U	1.3	3.5	20
01363	Gamma BHC - Lindane	58-89-9	0.72	U	0.72	3.5	20
01363	Chlordane	57-74-9	17	U	17	72	20
01363	p,p-DDD	72-54-8	34	U	34	34	20
01363	p,p-DDE	72-55-9	25	U	25	25	20
01363	p,p-DDT	50-29-3	19	U	19	19	20
01363	Delta BHC	319-86-8	0.76	U	0.76	3.5	20
01363	Dieldrin	60-57-1	6.5	U	6.5	7.2	20
01363	Endosulfan I	959-98-8	0.93	U	0.93	3.5	20
01363	Endosulfan II	33213-65-9	2.1	U	2.1	7.2	20
01363	Endosulfan Sulfate	1031-07-8	1.4	U	1.4	7.2	20
01363	Endrin	72-20-8	1.4	U	1.4	7.2	20
01363	Endrin Aldehyde	7421-93-4	6.3	U	6.3	7.2	20
01363	Endrin Ketone	53494-70-5	1.4	U	1.4	7.2	20
01363	Heptachlor	76-44-8	1.3	U	1.3	3.5	20
01363	Heptachlor Epoxide	1024-57-3	14	U	14	14	20
01363	Methoxychlor	72-43-5	7.2	U	7.2	35	20
01363	Mirex	2385-85-5	24	U	24	24	20
01363	Toxaphene	8001-35-2	46	U	46	140	20

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	5.7		0.35	1.8	1
10225	PCB-1260	11096-82-5	1.7	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Sample Description: SL-310-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164641
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31005 SDG#: DE038-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.20	20.7	1
07914	Boron	7440-42-8	9.04		0.920	5.17	1
01650	Calcium	7440-70-2	3,890		6.34	20.7	1
01654	Iron	7439-89-6	19,400		4.87	20.7	1
01656	Lithium	7439-93-2	21.0		0.23	2.1	1
01657	Magnesium	7439-95-4	4,640		2.63	10.3	1
06958	Manganese	7439-96-5	273		0.0807	0.517	1
10145	Phosphorus	7723-14-0	423		0.579	10.3	1
01662	Potassium	7440-09-7	2,900		18.6	51.7	1
01667	Sodium	7440-23-5	388		38.6	103	1
07968	Strontium	7440-24-6	23.3		0.0641	0.517	1
06969	Tin	7440-31-5	2.35	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,160		0.393	1.03	1
10146	Zirconium	7440-67-7	1.64	J	0.869	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242		0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.32		0.0633	0.422	2
06126	Barium	7440-39-3	132		0.114	0.422	2
06127	Beryllium	7440-41-7	0.498		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.249		0.0380	0.105	2
06131	Chromium	7440-47-3	18.8		0.127	0.422	2
06132	Cobalt	7440-48-4	5.12		0.0211	0.105	2
06133	Copper	7440-50-8	10.5		0.0696	0.422	2
06135	Lead	7439-92-1	7.48		0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.646		0.0527	0.105	2
06139	Nickel	7440-02-0	10.7		0.105	0.422	2
06141	Selenium	7782-49-2	0.0956	J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0217	J	0.0127	0.105	2
06145	Thallium	7440-28-0	0.241		0.0316	0.105	2
06148	Vanadium	7440-62-2	40.0		0.0232	0.105	2
06149	Zinc	7440-66-6	68.2		0.591	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-310-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164641
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31005 SDG#: DE038-18

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	418	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.82	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 15:24	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/05/2011 13:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/29/2010 03:18	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 03:22	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 13:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:49	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 07:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 10:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 07:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:49	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-310-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164641
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31005 SDG#: DE038-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 11:23	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 11:23	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:49	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 10:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 14:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 14:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 14:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/31/2010 07:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 14:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 09:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 22:43	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 20:49	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-312-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164642
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31205 SDG#: DE038-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	Dimethylphthalate	131-11-3	19	J	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-312-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164642
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31205 SDG#: DE038-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.6	J	3.5	8.8	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8	5
10138	Anthracene	120-12-7	1.9	J	1.8	8.8	5
10138	Benzo(a)anthracene	56-55-3	27		3.5	8.8	5
10138	Benzo(a)pyrene	50-32-8	21		3.5	8.8	5
10138	Benzo(b)fluoranthene	205-99-2	29		3.5	8.8	5
10138	Benzo(g,h,i)perylene	191-24-2	8.4	J	3.5	8.8	5
10138	Benzo(k)fluoranthene	207-08-9	12		3.5	8.8	5
10138	Butylbenzylphthalate	85-68-7	32	U	32	95	5
10138	Di-n-butylphthalate	84-74-2	32	U	32	95	5
10138	Chrysene	218-01-9	31		1.8	8.8	5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8	5
10138	Diethylphthalate	84-66-2	32	U	32	95	5
10138	Fluoranthene	206-44-0	24		3.5	8.8	5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.4	J	3.5	8.8	5
10138	1-Methylnaphthalene	90-12-0	6.1	J	3.5	8.8	5
10138	2-Methylnaphthalene	91-57-6	9.7		3.5	8.8	5
10138	Naphthalene	91-20-3	170		3.5	8.8	5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8	5
10138	Di-n-octylphthalate	117-84-0	32	U	32	95	5
10138	Phenanthrene	85-01-8	4.7	J	3.5	8.8	5
10138	Pyrene	129-00-0	26		3.5	8.8	5
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	1.6	J	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	91	U	91	260	1
10401	MCPP (Mecoprop)	93-65-2	81	J	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-312-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164642
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31205 SDG#: DE038-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36	1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.086	U	0.086	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.37	U	0.37	0.37	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	5.2		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.0	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	3.1		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.24	20.8	1
07914	Boron	7440-42-8	9.81		0.928	5.21	1
01650	Calcium	7440-70-2	4,280		6.39	20.8	1
01654	Iron	7439-89-6	18,600		4.91	20.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-312-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164642
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

31205 SDG#: DE038-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	22.9		0.23	2.1	1
01657	Magnesium	7439-95-4	4,330		2.65	10.4	1
06958	Manganese	7439-96-5	261		0.0813	0.521	1
10145	Phosphorus	7723-14-0	416		0.584	10.4	1
01662	Potassium	7440-09-7	2,880		18.8	52.1	1
01667	Sodium	7440-23-5	972		38.9	104	1
07968	Strontium	7440-24-6	23.1		0.0646	0.521	1
06969	Tin	7440-31-5	2.69	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,110		0.396	1.04	1
10146	Zirconium	7440-67-7	1.60	J	0.875	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0613	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.44		0.0613	0.409	2
06126	Barium	7440-39-3	105		0.110	0.409	2
06127	Beryllium	7440-41-7	0.436		0.0164	0.102	2
06128	Cadmium	7440-43-9	0.241		0.0368	0.102	2
06131	Chromium	7440-47-3	22.7		0.123	0.409	2
06132	Cobalt	7440-48-4	6.05		0.0204	0.102	2
06133	Copper	7440-50-8	11.7		0.0675	0.409	2
06135	Lead	7439-92-1	6.64		0.0106	0.204	2
06138	Molybdenum	7439-98-7	0.684		0.0511	0.102	2
06139	Nickel	7440-02-0	11.9		0.102	0.409	2
06141	Selenium	7782-49-2	0.157	J	0.0409	0.409	2
06142	Silver	7440-22-4	0.0648	J	0.0123	0.102	2
06145	Thallium	7440-28-0	0.197		0.0307	0.102	2
06148	Vanadium	7440-62-2	40.2		0.0225	0.102	2
06149	Zinc	7440-66-6	82.0		0.572	3.07	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	J	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	410		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-312-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164642
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

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14420 Albemarle Point Place
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Chantilly VA 20151

31205 SDG#: DE038-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.23	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 15:59	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/05/2011 13:46	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	12/29/2010 03:46	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/16/2011 21:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/24/2010 03:51	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 13:22	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:53	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/30/2010 07:25	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:53	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 10:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/30/2010 07:25	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-312-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164642
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31205 SDG#: DE038-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:53	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:53	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/30/2010 11:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103515708008	12/30/2010 11:27	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:53	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:53	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:53	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 10:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 14:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 14:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 14:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/31/2010 07:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 14:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 09:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 23:07	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 21:05	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-025-SIV-SD-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164643
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02505 SDG#: DE038-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-025-SIV-SD-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164643
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02505 SDG#: DE038-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.42	J	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	8.4	J	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	7.9	J	6.7	20	1
10138	Chrysene	218-01-9	3.4		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	1.6	J	0.74	1.9	1
10138	Fluorene	86-73-7	6.9		0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.74	1.9	1
10138	Naphthalene	91-20-3	2.9		0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	2.5		0.74	1.9	1
10138	Pyrene	129-00-0	2.0		0.74	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	J	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	9.2	U	9.2	9.2	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	700		85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

*=This limit was used in the evaluation of the final result

Sample Description: **SED-025-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164643
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02505 SDG#: DE038-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.16	U	0.16	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	1.5	U	1.5	1.5	1
01363	p,p-DDE	72-55-9	1.3	U	1.3	1.3	1
01363	p,p-DDT	50-29-3	2.1	U	2.1	2.1	1
01363	Delta BHC	319-86-8	0.22		0.040	0.19	1
01363	Dieldrin	60-57-1	0.33	U	0.33	0.33	1
01363	Endosulfan I	959-98-8	0.18	U	0.18	0.19	1
01363	Endosulfan II	33213-65-9	0.66	U	0.66	0.66	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.75	U	0.75	0.75	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.18	U	0.18	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.19	1
01363	Methoxychlor	72-43-5	1.1	U	1.1	1.9	1
01363	Mirex	2385-85-5	0.60	U	0.60	0.60	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.2	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		5.45	21.7	1
07914	Boron	7440-42-8	9.33		0.964	5.42	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-025-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164643
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02505 SDG#: DE038-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,940		6.64	21.7	1
01654	Iron	7439-89-6	19,900		5.10	21.7	1
01656	Lithium	7439-93-2	22.2		0.24	2.2	1
01657	Magnesium	7439-95-4	5,230		2.75	10.8	1
06958	Manganese	7439-96-5	311		0.0845	0.542	1
10145	Phosphorus	7723-14-0	470		0.607	10.8	1
01662	Potassium	7440-09-7	3,320		19.5	54.2	1
01667	Sodium	7440-23-5	67.1	J	40.4	108	1
07968	Strontium	7440-24-6	17.9		0.0672	0.542	1
06969	Tin	7440-31-5	2.54	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,250		0.412	1.08	1
10146	Zirconium	7440-67-7	1.29	J	0.910	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0657	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.21		0.0657	0.438	2
06126	Barium	7440-39-3	118		0.118	0.438	2
06127	Beryllium	7440-41-7	0.488		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.202		0.0394	0.109	2
06131	Chromium	7440-47-3	24.1		0.131	0.438	2
06132	Cobalt	7440-48-4	6.33		0.0219	0.109	2
06133	Copper	7440-50-8	10.6		0.0722	0.438	2
06135	Lead	7439-92-1	14.0		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.508		0.0547	0.109	2
06139	Nickel	7440-02-0	15.3		0.109	0.438	2
06141	Selenium	7782-49-2	0.160	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0400	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.240		0.0328	0.109	2
06148	Vanadium	7440-62-2	47.0		0.0241	0.109	2
06149	Zinc	7440-66-6	70.5		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0102	J	0.0031	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: **SED-025-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164643
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02505 SDG#: DE038-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	472	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.56	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLE026	01/15/2011 16:34	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLH026	01/05/2011 14:18	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLH026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLE026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103560027A	01/07/2011 10:01	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550007A	01/11/2011 03:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540018A	12/29/2010 13:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550007A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540018A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103560027A	12/23/2010 01:40	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103515708008	12/24/2010 15:57	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708008	12/24/2010 15:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708008	12/29/2010 10:31	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	103515708008	12/24/2010 15:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708008	12/29/2010 10:31	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	103515708008	12/29/2010 10:31	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-025-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164643
LLI Group # 1225470
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 01/26/2011 14:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02505 SDG#: DE038-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103515708008	12/24/2010 15:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708008	12/24/2010 15:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708008	12/29/2010 10:31	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	103515708008	12/29/2010 10:31	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	103515708008	12/24/2010 15:57	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708008	12/24/2010 15:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708008	12/24/2010 15:57	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708008	12/29/2010 10:31	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026003D	12/28/2010 14:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026003A	12/31/2010 07:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026003C	12/28/2010 14:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026003B	12/28/2010 14:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026003A	12/28/2010 14:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711004	12/20/2010 09:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708008	12/19/2010 19:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026003	12/19/2010 19:34	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711004	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11006006203B	01/11/2011 09:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001202B	01/03/2011 23:31	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10363243202A	01/02/2011 21:21	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11006006203B	01/06/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001202B	01/01/2011 11:30	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10363243202A	12/29/2010 19:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10354SLE026	Sample number(s): 6164621-6164624,6164626-6164643									
Acenaphthene	17	U	17.	170	ug/kg	99		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	48		10-107		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	38		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	87		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	88		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	84		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	89		67-125		
Benzoic acid	170 U		170.	500	ug/kg	94		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	103		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	59		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	101		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	87		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	93		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	39		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	100		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	88		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	86		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	94		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	98		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	106		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	87		64-119		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	98		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	92		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	64		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	100		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	101		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	89		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	88		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	84		35-106		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	101		58-112		
Pyrene	17	U	17.	170	ug/kg	108		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 10354SLH026	Sample number(s): 6164621-6164624,6164626-6164643									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	76		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	79		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	78		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	77		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	75		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	87		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	69		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	81		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	82		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	95		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	80		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	73		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	88		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	90		70-130		
Bis(2-Ethylhexyl)phthalate	6.6	J	6.0	18	ug/kg	77		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	80		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	79		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	71		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	75		62-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.67	U	0.67	1.7	ug/kg	79		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	82		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	75		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	75		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	73		56-121		
Batch number: 103560027A	Sample number(s): 6164621-6164624,6164626-6164643									
2,4-D	1.2	U	1.2	3.6	ug/kg	137		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	64		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	100		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	88		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	112		60-141		
MCPA	76	U	76.	250	ug/kg	112		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	98		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	100		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	88		48-138		
Batch number: 103500020A	Sample number(s): 6164634									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 103540018A	Sample number(s): 6164621-6164624,6164626-6164643									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	94	66*	75-125	35*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	117		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	137		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103550007A	Sample number(s): 6164621-6164624,6164626-6164643									
Aldrin	0.066	U	0.066	0.17	ug/kg	142*		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	130		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	116		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	116		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	135		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	143*		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	163*		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	131		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	128		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	119		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	110		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	137		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	139*		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	100		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	131		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	102		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	123		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	176*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103511026003A	Sample number(s): 6164621-6164643								
Antimony	0.0600 U	0.0600	0.200	mg/kg	117		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	106		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	100		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	103		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	110		82-118		
Copper	0.0941 J	0.0660	0.400	mg/kg	112		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	97		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	112		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	103		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	102		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	108		78-122		
Batch number: 103511026003B	Sample number(s): 6164621-6164643								
Selenium	0.0400 U	0.0400	0.400	mg/kg	102		79-122		
Batch number: 103511026003C	Sample number(s): 6164621-6164643								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	113		78-122		
Batch number: 103511026003D	Sample number(s): 6164621-6164643								
Barium	0.108 U	0.108	0.400	mg/kg	101		79-121		
Batch number: 103515708008	Sample number(s): 6164621-6164643								
Aluminum	5.03 U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	96		78-110		
Calcium	7.00 J	6.13	20.0	mg/kg	105		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.33 J	0.22	2.0	mg/kg	108		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	108		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	103		81-119		
Phosphorus	1.61 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	105		78-110		
Sodium	37.3 U	37.3	100	mg/kg	109		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.55 J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	108		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	109		80-120		
Batch number: 103515711004	Sample number(s): 6164621-6164643								
Mercury	0.0027 U	0.0027	0.0944	mg/kg	98		88-123		
Batch number: 10363243202A	Sample number(s): 6164621-6164623,6164625-6164643								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11001001202A	Sample number(s): 6164621-6164623,6164625-6164633								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11001001202B	Sample number(s): 6164634-6164643								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11006006203A	Sample number(s): 6164621-6164623,6164625-6164633								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11006006203B	Sample number(s): 6164634-6164643								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	105		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10350039401B	Sample number(s): 6164621-6164622,6164625-6164627								
22a pH by 9045C					100		95-105		
Batch number: 10350039402A	Sample number(s): 6164628-6164636								
22a pH by 9045C					100		95-105		
Batch number: 10350039402B	Sample number(s): 6164637-6164643								
22a pH by 9045C					100		95-105		
Batch number: 10350182101B	Sample number(s): 6164621-6164622,6164625-6164627								
Oxidation Reduction Potential					100		98-102		
Batch number: 10350182102A	Sample number(s): 6164628-6164636								
Oxidation Reduction Potential					100		98-102		
Batch number: 10350182102B	Sample number(s): 6164637-6164643								
Oxidation Reduction Potential					100		98-102		
Batch number: 10355162401A	Sample number(s): 6164621-6164634								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
Batch number: 10355162401B	Sample number(s): 6164635-6164643								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10354SLE026	Sample number(s): 6164621-6164624,6164626-6164643 UNSPK: 6164622								
Acenaphthene	99	98	75-115	0	30				
Acenaphthylene	104	102	49-126	2	30				
Aniline	60	52	14-114	14	30				
Anthracene	100	99	75-115	1	30				
Benzidine	28*	35	35-141	23	30				
Benzo(a)anthracene	103	100	65-122	3	30				
Benzo(a)pyrene	91	87	57-126	5	30				
Benzo(b)fluoranthene	94	87	59-125	8	30				
Benzo(g,h,i)perylene	90	87	59-127	3	30				
Benzo(k)fluoranthene	92	88	56-132	5	30				
Benzoic acid	46	37	10-173	21	30				
Benzyl alcohol	101	96	55-123	4	30				
4-Bromophenyl-phenylether	96	94	67-129	2	30				
Butylbenzylphthalate	112	106	73-134	5	30				
Di-n-butylphthalate	101	99	67-123	2	30				
Carbazole	100	99	64-120	1	30				
4-Chloro-3-methylphenol	100	99	53-130	1	30				
4-Chloroaniline	78	70	23-95	10	30				
bis(2-Chloroethoxy)methane	101	102	54-117	2	30				
bis(2-Chloroethyl)ether	99	96	60-116	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	96	94	55-142	3	30				
2-Chloronaphthalene	82	88	50-141	7	30				
2-Chlorophenol	104	103	73-121	1	30				
4-Chlorophenyl-phenylether	98	98	64-119	0	30				
Chrysene	101	98	62-128	3	30				
Dibenz(a,h)anthracene	94	88	65-125	7	30				
Dibenzofuran	98	99	71-112	1	30				
1,2-Dichlorobenzene	95	91	66-108	5	30				
1,3-Dichlorobenzene	92	89	63-109	3	30				
1,4-Dichlorobenzene	93	89	53-113	4	30				
3,3'-Dichlorobenzidine	70	59	25-123	18	30				
2,4-Dichlorophenol	101	101	78-117	0	30				
Diethylphthalate	100	100	66-118	0	30				
2,4-Dimethylphenol	101	99	56-130	2	30				
3,5-Dimethylphenol	110	109	70-130	1	30				
Dimethylphthalate	101	99	64-118	1	30				
4,6-Dinitro-2-methylphenol	57	49	10-148	16	30				
2,4-Dinitrophenol	30	24	20-143	24	30				
2,4-Dinitrotoluene	101	100	57-114	1	30				
2,6-Dinitrotoluene	103	102	69-123	1	30				
1,2-Diphenylhydrazine	110	106	71-129	3	30				
bis(2-Ethylhexyl)phthalate	112	106	63-122	5	30				
Fluoranthene	97	97	59-122	0	30				
Fluorene	96	97	60-125	2	30				
Hexachlorobenzene	102	98	61-111	4	30				
Hexachlorobutadiene	96	93	62-120	3	30				
Hexachlorocyclopentadiene	80	76	10-153	5	30				
Hexachloroethane	90	90	57-109	0	30				
Indeno(1,2,3-cd)pyrene	92	88	61-126	4	30				
Isophorone	97	95	51-118	2	30				
1-Methylnaphthalene	100	99	73-112	2	30				
2-Methylnaphthalene	94	92	76-114	3	30				
2-Methylphenol	102	103	47-142	1	30				
4-Methylphenol	102	98	55-126	4	30				
Naphthalene	93	90	72-116	3	30				
2-Nitroaniline	105	108	67-125	3	30				
3-Nitroaniline	100	98	59-122	2	30				
4-Nitroaniline	76	73	52-112	4	30				
Nitrobenzene	102	100	51-114	2	30				
2-Nitrophenol	98	94	74-115	4	30				
4-Nitrophenol	98	98	39-133	0	30				
N-Nitroso-di-n-propylamine	95	92	60-116	3	30				
N-Nitrosodimethylamine	89	88	47-116	1	30				
N-Nitrosodiphenylamine	102	100	86-145	2	30				
Di-n-octylphthalate	97	91	56-126	7	30				
Pentachlorophenol	77	69	17-149	11	30				
Phenanthrene	100	98	65-125	2	30				
Phenol	108	104	58-126	4	30				
Pyrene	110	110	51-151	0	30				
1,2,4-Trichlorobenzene	96	96	72-115	1	30				
2,4,5-Trichlorophenol	101	101	34-139	1	30				
2,4,6-Trichlorophenol	104	105	49-140	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10354SLH026	Sample number(s): 6164621-6164624,6164626-6164643 UNSPK: 6164622								
Acenaphthene	75	77	63-105	3	30				
Acenaphthylene	77	79	55-126	3	30				
Anthracene	77	79	46-136	3	30				
Benzo(a)anthracene	69	75	39-144	7	30				
Benzo(a)pyrene	56	63	34-156	9	30				
Benzo(b)fluoranthene	53	60	43-155	9	30				
Benzo(g,h,i)perylene	41	56	33-141	23	30				
Benzo(k)fluoranthene	61	63	42-144	3	30				
Butylbenzylphthalate	97	101	73-140	4	30				
Di-n-butylphthalate	85	87	78-160	2	30				
Chrysene	29	55	29-156	28	30				
Dibenz(a,h)anthracene	54	65	41-130	18	30				
Diethylphthalate	87	90	87-131	3	30				
Dimethylphthalate	87	92	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	67	75	39-167	7	30				
Fluoranthene	65	69	26-166	4	30				
Fluorene	79	80	45-121	2	30				
Indeno(1,2,3-cd)pyrene	47	60	21-143	21	30				
1-Methylnaphthalene	82	82	72-123	0	30				
2-Methylnaphthalene	71	72	28-121	1	30				
Naphthalene	76	76	61-102	0	30				
N-Nitrosodimethylamine	73	75	48-113	3	30				
Di-n-octylphthalate	70	77	40-192	7	30				
Phenanthrene	67	72	12-165	6	30				
Pyrene	57	66	15-153	10	30				
Batch number: 103560027A	Sample number(s): 6164621-6164624,6164626-6164643 UNSPK: 6164622								
2,4-D	131	93	28-161	34	35				
Dalapon	72	0*	12-86	200*	50				
2,4-DB	59	83	20-170	21	50				
Dicamba	104	88	33-120	16	50				
Dinoseb	9	6	1-44	40*	35				
2,4-DP (Dichlorprop)	102	113	55-141	11	50				
MCPA	27*	119	31-184	59*	50				
MCPP (Mecoprop)	63	71	16-174	9	50				
2,4,5-T	90	65	25-132	33	35				
2,4,5-TP	76	100	10-183	27	35				
Batch number: 103500020A	Sample number(s): 6164634 UNSPK: P164948								
6a Perchlorate EPA 6850	100	100	80-120	0	20				
Batch number: 103540018A	Sample number(s): 6164621-6164624,6164626-6164643 UNSPK: 6164622								
PCB-1016	215*	143	29-146	41	50				
PCB-1260	186*	152*	39-149	19	50				
Batch number: 103550007A	Sample number(s): 6164621-6164624,6164626-6164643 UNSPK: 6164622								
Aldrin	88	97	16-126	10	50				
Alpha BHC	103	127	10-129	21	50				
Beta BHC	103	122	14-147	17	50				
Gamma BHC - Lindane	95	105	10-140	11	50				
p,p-DDD	103	135	16-163	27	50				
p,p-DDE	114	100	18-161	14	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDT	113	166	10-176	38	50				
Delta BHC	119	84	23-140	34	50				
Dieldrin	91	111	19-154	20	50				
Endosulfan I	89	108	16-137	20	50				
Endosulfan II	92	113	28-154	20	50				
Endosulfan Sulfate	111	113	21-160	1	50				
Endrin	95	118	11-149	22	50				
Endrin Aldehyde	71	82	10-148	15	35				
Endrin Ketone	92	100	22-165	8	50				
Heptachlor	88	96	13-126	9	50				
Heptachlor Epoxide	94	113	13-157	19	50				
Methoxychlor	132	163*	32-147	21	50				
Batch number: 103511026003A	Sample number(s): 6164621-6164643 UNSPK: 6164622 BKG: 6164622								
Antimony	68*	67*	75-125	2	20	0.149 J	0.140 J	6 (1)	20
Arsenic	167*	111	75-125	20	20	3.04	3.25	6	20
Beryllium	97	98	75-125	0	20	0.282	0.247	13 (1)	20
Cadmium	107	107	75-125	1	20	0.116	0.114	2 (1)	20
Chromium	118	110	75-125	5	20	8.10	8.21	1	20
Cobalt	89	92	75-125	2	20	3.61	3.69	2	20
Copper	111	100	75-125	7	20	5.45	5.21	4	20
Lead	110	113	75-125	1	20	5.62	5.76	3	20
Nickel	105	102	75-125	2	20	5.27	4.92	7	20
Silver	106	101	75-125	6	20	0.0148 J	0.0165 J	11 (1)	20
Thallium	99	110	75-125	8	20	0.0967 J	0.0894 J	8 (1)	20
Vanadium	134*	114	75-125	7	20	16.8	16.4	2	20
Zinc	112	91	75-125	6	20	25.2	24.4	3	20
Batch number: 103511026003B	Sample number(s): 6164621-6164643 UNSPK: 6164622 BKG: 6164622								
Selenium	92	91	75-125	3	20	0.140 J	0.111 J	23* (1)	20
Batch number: 103511026003C	Sample number(s): 6164621-6164643 UNSPK: 6164622 BKG: 6164622								
Molybdenum	105	104	75-125	2	20	0.297	0.321	8 (1)	20
Batch number: 103511026003D	Sample number(s): 6164621-6164643 UNSPK: 6164622 BKG: 6164622								
Barium	152 (2)	96 (2)	75-125	10	20	46.1	49.3	7	20
Batch number: 103515708008	Sample number(s): 6164621-6164643 UNSPK: 6164622 BKG: 6164622								
Aluminum	1443 (2)	1911 (2)	75-125	9	20	7,430	6,570	12	20
Boron	95	98	84-115	4	20	5.67	4.92 J	14 (1)	20
Calcium	-1 (2)	211 (2)	75-125	35*	20	1,990	1,700	15	20
Iron	-985 (2)	-358 (2)	75-125	6	20	10,000	8,770	13	20
Lithium	98	100	82-114	3	20	7.3	5.6	25* (1)	20
Magnesium	14 (2)	97 (2)	75-125	9	20	1,770	1,360	26*	20
Manganese	60*	98	75-125	11	20	126	112	12	20
Phosphorus	97	89	75-125	2	20	260	229	13	20
Potassium	95	113	75-125	8	20	1,380	1,110	22*	20
Sodium	103	104	75-125	2	20	47.7 J	39.0 J	20 (1)	20
Strontium	99	99	75-115	1	20	24.0	23.7	1	20
Tin	96	96	80-110	1	20	2.07 J	1.85 J	11 (1)	20
Titanium	93	133*	75-125	8	20	387	301	25*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Zirconium	99	100	75-125	3	20	2.08	J	2.38	J	13 (1)	20
Batch number: 103515711004	Sample number(s): 6164621-6164643 UNSPK: 6164622 BKG: 6164622										
Mercury	96	95	65-135	3	20	0.0099	J	0.0088	J	11 (1)	20
Batch number: 10363243202A	Sample number(s): 6164621-6164623,6164625-6164643 UNSPK: 6164622 BKG: 6164622										
3a Cr VI by EPA 7199	100		75-125			0.20	U	0.54	J	200* (1)	20
Batch number: 11001001202A	Sample number(s): 6164621-6164623,6164625-6164633 UNSPK: 6164622 BKG: 6164622										
7a Perchlorate EPA 314.0	88		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11001001202B	Sample number(s): 6164634-6164643 UNSPK: 6164634 BKG: 6164634										
7a Perchlorate EPA 314.0	89		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11006006203A	Sample number(s): 6164621-6164623,6164625-6164633 UNSPK: 6164622 BKG: 6164622										
11a Anions by 300.0 - Fluoride	100		80-120			0.80	U	1.3		200* (1)	20
Batch number: 11006006203B	Sample number(s): 6164634-6164643 UNSPK: 6164634 BKG: 6164634										
11a Anions by 300.0 - Fluoride	102		80-120			1.4		0.99	J	34* (1)	20
Batch number: 10350039401B	Sample number(s): 6164621-6164622,6164625-6164627 BKG: 6164622										
22a pH by 9045C						8.38		8.39		0	1
Batch number: 10350039402A	Sample number(s): 6164628-6164636 BKG: 6164628										
22a pH by 9045C						8.20		8.28		1	1
Batch number: 10350039402B	Sample number(s): 6164637-6164643 BKG: P164946										
22a pH by 9045C						8.25		8.21		0	1
Batch number: 10350182101B	Sample number(s): 6164621-6164622,6164625-6164627 BKG: 6164622										
Oxidation Reduction Potential						414		419		1	6
Batch number: 10350182102A	Sample number(s): 6164628-6164636 BKG: 6164628										
Oxidation Reduction Potential						402		398		1	6
Batch number: 10350182102B	Sample number(s): 6164637-6164643 BKG: P164946										
Oxidation Reduction Potential						426		428		1	6
Batch number: 10355162401A	Sample number(s): 6164621-6164634 BKG: 6164622										
28a Moisture Content by 160.3						4.1		4.0		1	20
28a Moisture Content by 160.3						4.1		4.0		1	20
28a Moisture Content by 160.3						4.1		4.0		1	20
Batch number: 10355162401B	Sample number(s): 6164635-6164643 BKG: 6164635										
28a Moisture Content by 160.3						6.2		6.0		3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10354SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164621	97	97	99	84	93	95
6164622	92	87	90	77	89	93
6164623	101	99	104	91	92	95
6164624	101	98	106	91	94	93
6164626	98	96	97	81	93	100
6164627	102	100	105	86	95	96
6164628	96	94	100	84	94	98
6164629	98	96	92	81	94	93
6164630	93	96	97	87	100	92
6164631	94	95	109	85	96	88
6164632	95	95	99	82	95	93
6164633	76	76	80	68	77	71
6164634	92	94	100	85	98	90
6164635	87	89	96	82	93	82
6164636	89	91	100	81	95	86
6164637	93	93	91	79	87	82
6164638	98	97	100	84	96	96
6164639	91	90	95	81	90	88
6164640	95	95	99	86	97	90
6164641	93	92	97	80	93	90
6164642	96	95	98	88	95	96
6164643	93	93	100	86	95	96
Blank	95	95	104	90	101	98
LCS	98	98	107	94	94	97
MS	101	99	104	91	92	95
MSD	101	98	106	91	94	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10354SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164621	94	76	83
6164622	86	69	79
6164623	85	69	77
6164624	86	70	80
6164626	82	75	81
6164627	79	71	73
6164628	87	74	93
6164629	78	65	81
6164630	86	70	87
6164631	85	73	91
6164632	86	74	90
6164633	84	73	91
6164634	89	74	83
6164635	84	72	81
6164636	88	75	80
6164637	102	72	78
6164638	86	72	79
6164639	87	71	82
6164640	88	81	72
6164641	80	74	72

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Surrogate Quality Control

6164642	83	78	69
6164643	112	76	101
Blank	86	68	75
LCS	90	69	76
MS	85	69	77
MSD	86	70	80
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103540018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6164621	103	129*
6164622	115	137*
6164623	153*	161*
6164624	123	134*
6164626	129	126*
6164627	159*	173*
6164628	118	106
6164629	120	115
6164630	145*	137*
6164631	134	140*
6164632	123	113
6164633	159*	179*
6164634	70	128*
6164635	107	126*
6164636	119	125*
6164637	108	120
6164638	105	141*
6164639	106	114
6164640	107	79
6164641	134	97
6164642	137	97
6164643	134	116
Blank	121	144*
LCS	96	115
LCSD	101	131*
MS	154*	161*
MSD	123	134*
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103550007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6164621	88	244*
6164622	80	162*
6164623	65	98
6164624	84	108
6164626	92	97
6164627	84	107
6164628	93	93
6164629	94	87
6164630	84	99
6164631	90	85
6164632	85	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225470
Reported: 01/26/11 at 02:07 PM

Surrogate Quality Control

6164633	70	93
6164634	81	94
6164635	87	90
6164636	81	103
6164637	81	220*
6164638	82	137*
6164639	92	103
6164640	94	141*
6164641	74	0*
6164642	77	88
6164643	85	62
Blank	99	125*
LCS	101	133*
MS	65	98
MSD	85	108
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103560027A

	2,4-Dichlorophenylacetic acid
6164621	119
6164622	89
6164623	95
6164624	148
6164626	108
6164627	80
6164628	133
6164629	109
6164630	162*
6164631	115
6164632	105
6164633	118
6164634	81
6164635	74
6164636	114
6164637	110
6164638	174*
6164639	62
6164640	226*
6164641	86
6164642	113
6164643	53
Blank	113
LCS	123
MS	95
MSD	148
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1225470 61644621-43

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-002-SA5C-SB-4.0-5.0	12.14.10	0942	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-002-SA5C-SB-9.0-10.0	12.14.10	0950	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
TB-121410	12.14.10	0800	water	HCl	2-40 mL VOA vials	X	X		X																				trip blank
EB02-SA5B-121410	12.14.10	1230	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB02-SA5B-121410	12.14.10	1230	water	none	1-500 ml poly							X	X			X													rinsate
EB02-SA5B-121410	12.14.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB02-SA5B-121410	12.14.10	1230	water	HCl	6-40 mL amber VOA vials	X	X		X																				rinsate
SL-002-SA5C-SB-9.5	12.14.10	0948	soil	none	5 Encore Samplers	X	X		X																				
SL-002-SA5C-SB-4.5	12.14.10	0938	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-4.5	12.14.10	1104	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.5	12.14.10	1115	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.0-10.0	12.14.10	1118	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-004-SA5C-SB-4.0-5.0	12.14.10	1111	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-140-SA5C-SB-3.0-4.0	12.14.10	1428	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-140-SA5C-SB-3.5	12.14.10	1425	soil	none	5 Encore Samplers	X	X																						
DUP05-SA5B-QC-121410	12.14.10	0850	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									DUP
SL-120-SA5B-SS-0.0-0.5MS	12.14.10	0847	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X			X	X									MS/MSD
SL-108-SA5B-SS-0.0-0.5	12.14.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-119-SA5B-SS-0.0-0.5	12.14.10	0830	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-240-SA5B-SS-0.0-0.5	12.14.10	0933	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-109-SA5B-SS-0.0-0.5	12.14.10	0909	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-122-SA5B-SS-0.0-0.5	12.14.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-121-SA5B-SS-0.0-0.5	12.14.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-054-SA5B-SS-0.0-0.5	12.14.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-105-SA5B-SS-0.0-0.5	12.14.10	0835	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-098-SA5B-SS-0.0-0.5	12.14.10	1043	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X	X									
SL-142-SA5B-SS-0.0-0.5	12.14.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-143-SA5B-SS-0.0-0.5	12.14.10	1115	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-123-SA5B-SS-0.0-0.5	12.14.10	1040	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-124-SA5B-SS-0.0-0.5	12.14.10	1100	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-309-SA5B-SS-0.0-0.5	12.14.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-311-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-310-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-312-SA5B-SS-0.0-0.5	12.14.10	1427	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-025-SIV-SD-0.0-0.5	12.14.10	1244	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-024-SIV-SD-0.0-0.5	12.14.10	1116	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X	X									
SED-023-SIV-SD-0.0-0.5	12.14.10	0919	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-022-SIV-SD-0.0-0.5	12.14.10	1008	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-125-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-126-SA5B-SS-0.0-0.5	12.14.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-129-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-128-SA5B-SS-0.0-0.5	12.14.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-027-SIV-SD-0.0-0.5	12.14.10	1559	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-026-SIV-SD-0.0-0.5	12.14.10	1522	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-060-SA5C-SB-10.0-11.0	12.14.10	1618	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-060-SA5C-SB-10.5	12.14.10	1614	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		
	12.14.10 1700		12/15/10 946		Laboratory: Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Airbill No.			
		00732992 Tracking Number 869514317156			No. of coolers = 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/15/2010
Group Number: 1225471
SDG: DX022
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP05-SA5B-QC-121410 Grab Soil	6164644
SL-120-SA5B-SS-0.0-0.5 Grab Soil	6164645
SL-120-SA5B-SS-0.0-0.5MS Grab Soil	6164646
SL-120-SA5B-SS-0.0-0.5MSD Grab Soil	6164647
SL-108-SA5B-SS-0.0-0.5 Grab Soil	6164648
SL-119-SA5B-SS-0.0-0.5 Grab Soil	6164649
SL-240-SA5B-SS-0.0-0.5 Grab Soil	6164650
SL-109-SA5B-SS-0.0-0.5 Grab Soil	6164651
SL-122-SA5B-SS-0.0-0.5 Grab Soil	6164652
SL-121-SA5B-SS-0.0-0.5 Grab Soil	6164653
SL-054-SA5B-SS-0.0-0.5 Grab Soil	6164654
SL-105-SA5B-SS-0.0-0.5 Grab Soil	6164655
SL-098-SA5B-SS-0.0-0.5 Grab Soil	6164656
SL-142-SA5B-SS-0.0-0.5 Grab Soil	6164657
SL-143-SA5B-SS-0.0-0.5 Grab Soil	6164658
SL-123-SA5B-SS-0.0-0.5 Grab Soil	6164659
SL-124-SA5B-SS-0.0-0.5 Grab Soil	6164660
SL-309-SA5B-SS-0.0-0.5 Grab Soil	6164661
SL-311-SA5B-SS-0.0-0.5 Grab Soil	6164662
SL-310-SA5B-SS-0.0-0.5 Grab Soil	6164663
SL-312-SA5B-SS-0.0-0.5 Grab Soil	6164664
SED-025-SIV-SD-0.0-0.5 Grab Soil	6164665

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

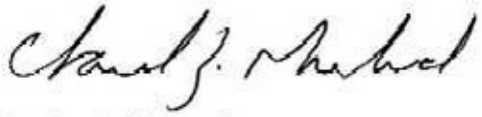

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP05-SA5B-QC-121410 Grab Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164644
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX022-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP05-SA5B-QC-121410 Grab Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164644
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX022-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0203	U	0.0203	1.04	1
11031	12378-PeCDD	40321-76-4	0.138	JBQ	0.0322	5.18	1
11031	123478-HxCDD	39227-28-6	0.228	JB	0.0327	5.18	1
11031	123678-HxCDD	57653-85-7	0.572	JB	0.0343	5.18	1
11031	123789-HxCDD	19408-74-3	0.535	JB	0.0357	5.18	1
11031	1234678-HpCDD	35822-46-9	16.7	B	0.0535	5.18	1
11031	OCDD	3268-87-9	172	B	0.0519	10.4	1
11031	2378-TCDF	51207-31-9	0.0808	JB	0.0242	1.04	1
11031	12378-PeCDF	57117-41-6	0.134	JB	0.0161	5.18	1
11031	23478-PeCDF	57117-31-4	0.300	JBQ	0.0159	5.18	1
11031	123478-HxCDF	70648-26-9	0.356	JBQ	0.0248	5.18	1
11031	123678-HxCDF	57117-44-9	0.286	JB	0.0238	5.18	1
11031	123789-HxCDF	72918-21-9	0.230	JB	0.0297	5.18	1
11031	234678-HxCDF	60851-34-5	0.541	JBQ	0.0242	5.18	1
11031	1234678-HpCDF	67562-39-4	4.47	JB	0.0222	5.18	1
11031	1234789-HpCDF	55673-89-7	0.410	JB	0.0322	5.18	1
11031	OCDF	39001-02-0	10.3	JB	0.0392	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP05-SA5B-QC-121410 Grab Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164644
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX022-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP05-SA5B-QC-121410 Grab Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5B-QC-121410

LLI Sample # SW 6164644
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:50

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX022-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/17/2011 23:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164645
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164645
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0355 JBQ	0.0191	1.04	1
11031	12378-PeCDD	40321-76-4	0.101 JBQ	0.0297	5.21	1
11031	123478-HxCDD	39227-28-6	0.237 JB	0.0350	5.21	1
11031	123678-HxCDD	57653-85-7	0.657 JB	0.0367	5.21	1
11031	123789-HxCDD	19408-74-3	0.523 JB	0.0344	5.21	1
11031	1234678-HpCDD	35822-46-9	18.5 B	0.0677	5.21	1
11031	OCDD	3268-87-9	199 B	0.0527	10.4	1
11031	2378-TCDF	51207-31-9	0.121 JB	0.0224	1.04	1
11031	12378-PeCDF	57117-41-6	0.138 JB	0.0142	5.21	1
11031	23478-PeCDF	57117-31-4	0.265 JB	0.0142	5.21	1
11031	123478-HxCDF	70648-26-9	0.316 JB	0.0261	5.21	1
11031	123678-HxCDF	57117-44-9	0.327 JB	0.0229	5.21	1
11031	123789-HxCDF	72918-21-9	0.231 JB	0.0307	5.21	1
11031	234678-HxCDF	60851-34-5	0.483 JB	0.0255	5.21	1
11031	1234678-HpCDF	67562-39-4	4.62 JB	0.0204	5.21	1
11031	1234789-HpCDF	55673-89-7	0.470 JB	0.0350	5.21	1
11031	OCDF	39001-02-0	11.5 B	0.0335	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164645
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164645
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 00:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5MS Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164646
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SS-0.0-0.5MS Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164646
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.6	B	0.0227	1.04	1
11031	12378-PeCDD	40321-76-4	113	B	0.0381	5.21	1
11031	123478-HxCDD	39227-28-6	116	B	0.0393	5.21	1
11031	123678-HxCDD	57653-85-7	114	B	0.0408	5.21	1
11031	123789-HxCDD	19408-74-3	115	B	0.0405	5.21	1
11031	1234678-HpCDD	35822-46-9	133	B	0.0728	5.21	1
11031	OCDD	3268-87-9	436	B	0.0685	10.4	1
11031	2378-TCDF	51207-31-9	22.7	B	0.0324	1.04	1
11031	12378-PeCDF	57117-41-6	113	B	0.0213	5.21	1
11031	23478-PeCDF	57117-31-4	112	B	0.0210	5.21	1
11031	123478-HxCDF	70648-26-9	108	B	0.0422	5.21	1
11031	123678-HxCDF	57117-44-9	107	B	0.0396	5.21	1
11031	123789-HxCDF	72918-21-9	110	B	0.0470	5.21	1
11031	234678-HxCDF	60851-34-5	109	B	0.0400	5.21	1
11031	1234678-HpCDF	67562-39-4	114	B	0.0449	5.21	1
11031	1234789-HpCDF	55673-89-7	109	B	0.0569	5.21	1
11031	OCDF	39001-02-0	237	B	0.0453	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5MS Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164646
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5MS Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164646
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 01:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5MSD Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164647
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SS-0.0-0.5MSD Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164647
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.6	B	0.0286	1.04	1
11031	12378-PeCDD	40321-76-4	112	B	0.0523	5.21	1
11031	123478-HxCDD	39227-28-6	115	B	0.0472	5.21	1
11031	123678-HxCDD	57653-85-7	113	B	0.0482	5.21	1
11031	123789-HxCDD	19408-74-3	114	B	0.0498	5.21	1
11031	1234678-HpCDD	35822-46-9	130	B	0.0924	5.21	1
11031	OCDD	3268-87-9	391	B	0.0794	10.4	1
11031	2378-TCDF	51207-31-9	23.4	B	0.0348	1.04	1
11031	12378-PeCDF	57117-41-6	114	B	0.0222	5.21	1
11031	23478-PeCDF	57117-31-4	114	B	0.0221	5.21	1
11031	123478-HxCDF	70648-26-9	109	B	0.0483	5.21	1
11031	123678-HxCDF	57117-44-9	109	B	0.0448	5.21	1
11031	123789-HxCDF	72918-21-9	110	B	0.0596	5.21	1
11031	234678-HxCDF	60851-34-5	110	B	0.0475	5.21	1
11031	1234678-HpCDF	67562-39-4	114	B	0.0543	5.21	1
11031	1234789-HpCDF	55673-89-7	110	B	0.0812	5.21	1
11031	OCDF	39001-02-0	230	B	0.0566	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5MSD Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164647
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-120-SA5B-SS-0.0-0.5MSD Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SS-0.0-0.5

LLI Sample # SW 6164647
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:47

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-120 SDG#: DX022-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 02:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164648
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-108 SDG#: DX022-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164648
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-108 SDG#: DX022-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0648	JB	0.0247	1.05	1
11031	12378-PeCDD	40321-76-4	0.343	JBQ	0.0435	5.23	1
11031	123478-HxCDD	39227-28-6	0.722	JB	0.0343	5.23	1
11031	123678-HxCDD	57653-85-7	3.51	JB	0.0348	5.23	1
11031	123789-HxCDD	19408-74-3	1.50	JB	0.0369	5.23	1
11031	1234678-HpCDD	35822-46-9	104	B	0.136	5.23	1
11031	OCDD	3268-87-9	1,070	B	0.0865	10.5	1
11031	2378-TCDF	51207-31-9	0.113	JBQ	0.0315	1.05	1
11031	12378-PeCDF	57117-41-6	0.542	JB	0.0172	5.23	1
11031	23478-PeCDF	57117-31-4	0.502	JB	0.0167	5.23	1
11031	123478-HxCDF	70648-26-9	0.526	JB	0.0303	5.23	1
11031	123678-HxCDF	57117-44-9	0.641	JB	0.0280	5.23	1
11031	123789-HxCDF	72918-21-9	0.431	JB	0.0356	5.23	1
11031	234678-HxCDF	60851-34-5	1.02	JB	0.0295	5.23	1
11031	1234678-HpCDF	67562-39-4	11.2	B	0.0287	5.23	1
11031	1234789-HpCDF	55673-89-7	1.13	JB	0.0446	5.23	1
11031	OCDF	39001-02-0	26.2	B	0.0371	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164648
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-108 SDG#: DX022-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SS-0.0-0.5

LLI Sample # SW 6164648
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:55

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-108 SDG#: DX022-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 03:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-119-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164649
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-119 SDG#: DX022-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164649
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-119 SDG#: DX022-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0212	U	0.0212	1.08	1
11031	12378-PeCDD	40321-76-4	0.213	JBQ	0.0416	5.41	1
11031	123478-HxCDD	39227-28-6	0.310	JBQ	0.0346	5.41	1
11031	123678-HxCDD	57653-85-7	0.914	JB	0.0357	5.41	1
11031	123789-HxCDD	19408-74-3	0.972	JB	0.0363	5.41	1
11031	1234678-HpCDD	35822-46-9	23.8	B	0.0657	5.41	1
11031	OCDD	3268-87-9	278	B	0.0617	10.8	1
11031	2378-TCDF	51207-31-9	0.0754	JBQ	0.0316	1.08	1
11031	12378-PeCDF	57117-41-6	0.219	JBQ	0.0186	5.41	1
11031	23478-PeCDF	57117-31-4	0.302	JBQ	0.0187	5.41	1
11031	123478-HxCDF	70648-26-9	0.337	JB	0.0325	5.41	1
11031	123678-HxCDF	57117-44-9	0.438	JB	0.0285	5.41	1
11031	123789-HxCDF	72918-21-9	0.485	JBQ	0.0380	5.41	1
11031	234678-HxCDF	60851-34-5	0.610	JBQ	0.0305	5.41	1
11031	1234678-HpCDF	67562-39-4	6.00	B	0.0233	5.41	1
11031	1234789-HpCDF	55673-89-7	0.549	JBQ	0.0379	5.41	1
11031	OCDF	39001-02-0	15.6	B	0.0367	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164649
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-119 SDG#: DX022-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SS-0.0-0.5

LLI Sample # SW 6164649
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:30

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-119 SDG#: DX022-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 04:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164650
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-240 SDG#: DX022-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164650
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-240 SDG#: DX022-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0375	U	0.0375	1.04	1
11031	12378-PeCDD	40321-76-4	0.546	JBQ	0.0842	5.21	1
11031	123478-HxCDD	39227-28-6	1.08	JB	0.0529	5.21	1
11031	123678-HxCDD	57653-85-7	3.93	JB	0.0531	5.21	1
11031	123789-HxCDD	19408-74-3	1.48	JB	0.0520	5.21	1
11031	1234678-HpCDD	35822-46-9	92.3	B	0.152	5.21	1
11031	OCDD	3268-87-9	972	B	0.125	10.4	1
11031	2378-TCDF	51207-31-9	0.130	JB	0.0486	1.04	1
11031	12378-PeCDF	57117-41-6	0.327	JB	0.0294	5.21	1
11031	23478-PeCDF	57117-31-4	0.539	JB	0.0284	5.21	1
11031	123478-HxCDF	70648-26-9	0.602	JB	0.0450	5.21	1
11031	123678-HxCDF	57117-44-9	0.656	JB	0.0415	5.21	1
11031	123789-HxCDF	72918-21-9	0.298	JBQ	0.0510	5.21	1
11031	234678-HxCDF	60851-34-5	0.932	JBQ	0.0448	5.21	1
11031	1234678-HpCDF	67562-39-4	10.2	B	0.0386	5.21	1
11031	1234789-HpCDF	55673-89-7	0.907	JB	0.0540	5.21	1
11031	OCDF	39001-02-0	21.7	B	0.0549	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164650
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-240 SDG#: DX022-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SS-0.0-0.5

LLI Sample # SW 6164650
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:33

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-240 SDG#: DX022-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 04:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-109-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164651
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-109 SDG#: DX022-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164651
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-109 SDG#: DX022-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0406	JBQ	0.0221	1.06	1
11031	12378-PeCDD	40321-76-4	0.245	JB	0.0408	5.31	1
11031	123478-HxCDD	39227-28-6	0.553	JB	0.0497	5.31	1
11031	123678-HxCDD	57653-85-7	2.38	JB	0.0518	5.31	1
11031	123789-HxCDD	19408-74-3	0.967	JB	0.0486	5.31	1
11031	1234678-HpCDD	35822-46-9	65.3	B	0.0994	5.31	1
11031	OCDD	3268-87-9	689	B	0.0790	10.6	1
11031	2378-TCDF	51207-31-9	0.0866	JB	0.0224	1.06	1
11031	12378-PeCDF	57117-41-6	0.247	JB	0.0134	5.31	1
11031	23478-PeCDF	57117-31-4	0.376	JB	0.0138	5.31	1
11031	123478-HxCDF	70648-26-9	0.435	JB	0.0296	5.31	1
11031	123678-HxCDF	57117-44-9	0.461	JB	0.0258	5.31	1
11031	123789-HxCDF	72918-21-9	0.314	JBQ	0.0323	5.31	1
11031	234678-HxCDF	60851-34-5	0.772	JBQ	0.0285	5.31	1
11031	1234678-HpCDF	67562-39-4	7.18	B	0.0287	5.31	1
11031	1234789-HpCDF	55673-89-7	0.812	JBQ	0.0448	5.31	1
11031	OCDF	39001-02-0	16.0	B	0.0493	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-109-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164651
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-109 SDG#: DX022-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-109-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SS-0.0-0.5

LLI Sample # SW 6164651
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:09

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-109 SDG#: DX022-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 08:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164652
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-122 SDG#: DX022-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164652
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-122 SDG#: DX022-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0224 JBQ	0.0164	1.06	1
11031	12378-PeCDD	40321-76-4	0.121 JBQ	0.0324	5.29	1
11031	123478-HxCDD	39227-28-6	0.0834 JBQ	0.0331	5.29	1
11031	123678-HxCDD	57653-85-7	0.422 JBQ	0.0341	5.29	1
11031	123789-HxCDD	19408-74-3	0.741 JB	0.0341	5.29	1
11031	1234678-HpCDD	35822-46-9	2.25 JB	0.0417	5.29	1
11031	OCDD	3268-87-9	22.4 B	0.0395	10.6	1
11031	2378-TCDF	51207-31-9	0.0494 JB	0.0270	1.06	1
11031	12378-PeCDF	57117-41-6	0.344 JBQ	0.0137	5.29	1
11031	23478-PeCDF	57117-31-4	0.255 JB	0.0133	5.29	1
11031	123478-HxCDF	70648-26-9	0.217 JB	0.0259	5.29	1
11031	123678-HxCDF	57117-44-9	0.209 JB	0.0230	5.29	1
11031	123789-HxCDF	72918-21-9	0.527 JBQ	0.0288	5.29	1
11031	234678-HxCDF	60851-34-5	0.278 JB	0.0248	5.29	1
11031	1234678-HpCDF	67562-39-4	1.17 JB	0.0196	5.29	1
11031	1234789-HpCDF	55673-89-7	0.205 JB	0.0312	5.29	1
11031	OCDF	39001-02-0	1.61 JB	0.0406	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164652
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-122 SDG#: DX022-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SS-0.0-0.5

LLI Sample # SW 6164652
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:40

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-122 SDG#: DX022-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 09:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-121-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164653
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-121 SDG#: DX022-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164653
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-121 SDG#: DX022-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0222	JBQ	0.0171	1.06	1
11031	12378-PeCDD	40321-76-4	0.0304	U	0.0304	5.30	1
11031	123478-HxCDD	39227-28-6	0.0306	U	0.0306	5.30	1
11031	123678-HxCDD	57653-85-7	0.314	JBQ	0.0321	5.30	1
11031	123789-HxCDD	19408-74-3	0.438	JB	0.0315	5.30	1
11031	1234678-HpCDD	35822-46-9	2.20	JB	0.0480	5.30	1
11031	OCDD	3268-87-9	26.8	B	0.0446	10.6	1
11031	2378-TCDF	51207-31-9	0.0330	U	0.0330	1.06	1
11031	12378-PeCDF	57117-41-6	0.701	JBQ	0.0137	5.30	1
11031	23478-PeCDF	57117-31-4	0.201	JBQ	0.0151	5.30	1
11031	123478-HxCDF	70648-26-9	0.181	JBQ	0.0266	5.30	1
11031	123678-HxCDF	57117-44-9	0.176	JB	0.0214	5.30	1
11031	123789-HxCDF	72918-21-9	0.330	JB	0.0316	5.30	1
11031	234678-HxCDF	60851-34-5	0.160	JB	0.0255	5.30	1
11031	1234678-HpCDF	67562-39-4	0.826	JB	0.0178	5.30	1
11031	1234789-HpCDF	55673-89-7	0.124	JBQ	0.0334	5.30	1
11031	OCDF	39001-02-0	1.64	JB	0.0456	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164653
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-121 SDG#: DX022-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SS-0.0-0.5

LLI Sample # SW 6164653
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:15

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-121 SDG#: DX022-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 10:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164654
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-054 SDG#: DX022-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164654
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-054 SDG#: DX022-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0735	JBQ	0.0319	1.07	1
11031	12378-PeCDD	40321-76-4	0.435	JBQ	0.0639	5.33	1
11031	123478-HxCDD	39227-28-6	1.08	JBQ	0.0449	5.33	1
11031	123678-HxCDD	57653-85-7	4.69	JB	0.0465	5.33	1
11031	123789-HxCDD	19408-74-3	1.98	JB	0.0447	5.33	1
11031	1234678-HpCDD	35822-46-9	143	B	0.148	5.33	1
11031	OCDD	3268-87-9	1,600	B	0.120	10.7	1
11031	2378-TCDF	51207-31-9	0.0546	JB	0.0353	1.07	1
11031	12378-PeCDF	57117-41-6	0.330	JB	0.0191	5.33	1
11031	23478-PeCDF	57117-31-4	0.367	JB	0.0179	5.33	1
11031	123478-HxCDF	70648-26-9	0.505	JBQ	0.0362	5.33	1
11031	123678-HxCDF	57117-44-9	0.642	JB	0.0332	5.33	1
11031	123789-HxCDF	72918-21-9	0.274	JB	0.0391	5.33	1
11031	234678-HxCDF	60851-34-5	0.856	JB	0.0353	5.33	1
11031	1234678-HpCDF	67562-39-4	13.7	B	0.0308	5.33	1
11031	1234789-HpCDF	55673-89-7	1.32	JB	0.0465	5.33	1
11031	OCDF	39001-02-0	38.0	B	0.0474	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164654
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-054 SDG#: DX022-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SS-0.0-0.5

LLI Sample # SW 6164654
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:21

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-054 SDG#: DX022-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 11:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164655
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-105 SDG#: DX022-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164655
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-105 SDG#: DX022-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0295	U	0.0295	1.04	1
11031	12378-PeCDD	40321-76-4	0.412	JBQ	0.0712	5.22	1
11031	123478-HxCDD	39227-28-6	0.795	JB	0.0452	5.22	1
11031	123678-HxCDD	57653-85-7	4.14	JB	0.0474	5.22	1
11031	123789-HxCDD	19408-74-3	1.63	JBQ	0.0444	5.22	1
11031	1234678-HpCDD	35822-46-9	114	B	0.111	5.22	1
11031	OCDD	3268-87-9	1,230	B	0.110	10.4	1
11031	2378-TCDF	51207-31-9	0.0802	JBQ	0.0366	1.04	1
11031	12378-PeCDF	57117-41-6	0.424	JB	0.0211	5.22	1
11031	23478-PeCDF	57117-31-4	0.148	JBQ	0.0206	5.22	1
11031	123478-HxCDF	70648-26-9	0.400	JB	0.0350	5.22	1
11031	123678-HxCDF	57117-44-9	0.588	JB	0.0310	5.22	1
11031	123789-HxCDF	72918-21-9	0.282	JB	0.0376	5.22	1
11031	234678-HxCDF	60851-34-5	0.755	JB	0.0338	5.22	1
11031	1234678-HpCDF	67562-39-4	12.0	B	0.0326	5.22	1
11031	1234789-HpCDF	55673-89-7	1.15	JB	0.0461	5.22	1
11031	OCDF	39001-02-0	29.3	B	0.0493	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164655
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-105 SDG#: DX022-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SS-0.0-0.5

LLI Sample # SW 6164655
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:35

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-105 SDG#: DX022-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 12:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164656
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-098 SDG#: DX022-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	3.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-098-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164656
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-098 SDG#: DX022-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0639	JBQ	0.0230	1.03	1
11031	12378-PeCDD	40321-76-4	0.214	JBQ	0.0469	5.17	1
11031	123478-HxCDD	39227-28-6	0.364	JB	0.0274	5.17	1
11031	123678-HxCDD	57653-85-7	2.00	JB	0.0288	5.17	1
11031	123789-HxCDD	19408-74-3	0.922	JB	0.0282	5.17	1
11031	1234678-HpCDD	35822-46-9	60.4	B	0.0733	5.17	1
11031	OCDD	3268-87-9	598	B	0.0793	10.3	1
11031	2378-TCDF	51207-31-9	0.0287	U	0.0287	1.03	1
11031	12378-PeCDF	57117-41-6	0.287	JBQ	0.0150	5.17	1
11031	23478-PeCDF	57117-31-4	0.147	JB	0.0150	5.17	1
11031	123478-HxCDF	70648-26-9	0.239	JB	0.0199	5.17	1
11031	123678-HxCDF	57117-44-9	0.305	JB	0.0177	5.17	1
11031	123789-HxCDF	72918-21-9	0.151	JB	0.0236	5.17	1
11031	234678-HxCDF	60851-34-5	0.421	JBQ	0.0192	5.17	1
11031	1234678-HpCDF	67562-39-4	5.52	B	0.0222	5.17	1
11031	1234789-HpCDF	55673-89-7	0.578	JB	0.0347	5.17	1
11031	OCDF	39001-02-0	12.9	B	0.0389	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-098-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164656
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-098 SDG#: DX022-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SS-0.0-0.5

LLI Sample # SW 6164656
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:43

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-098 SDG#: DX022-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 13:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401A	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-142-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164657
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-142 SDG#: DX022-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164657
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-142 SDG#: DX022-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0267 JBQ	0.0214	1.07	1
11031	12378-PeCDD	40321-76-4	0.0512 JBQ	0.0297	5.33	1
11031	123478-HxCDD	39227-28-6	0.0550 JBQ	0.0253	5.33	1
11031	123678-HxCDD	57653-85-7	0.117 JB	0.0264	5.33	1
11031	123789-HxCDD	19408-74-3	0.0982 JB	0.0260	5.33	1
11031	1234678-HpCDD	35822-46-9	3.01 JB	0.0383	5.33	1
11031	OCDD	3268-87-9	31.3 B	0.0432	10.7	1
11031	2378-TCDF	51207-31-9	0.0183 U	0.0183	1.07	1
11031	12378-PeCDF	57117-41-6	0.185 JBQ	0.0107	5.33	1
11031	23478-PeCDF	57117-31-4	0.0547 JBQ	0.0116	5.33	1
11031	123478-HxCDF	70648-26-9	0.0920 JBQ	0.0216	5.33	1
11031	123678-HxCDF	57117-44-9	0.0568 JBQ	0.0176	5.33	1
11031	123789-HxCDF	72918-21-9	0.0673 JB	0.0275	5.33	1
11031	234678-HxCDF	60851-34-5	0.0798 JB	0.0201	5.33	1
11031	1234678-HpCDF	67562-39-4	0.707 JB	0.0156	5.33	1
11031	1234789-HpCDF	55673-89-7	0.103 JB	0.0349	5.33	1
11031	OCDF	39001-02-0	1.67 JBQ	0.0502	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-142-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164657
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-142 SDG#: DX022-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-142-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5B-SS-0.0-0.5

LLI Sample # SW 6164657
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:04

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-142 SDG#: DX022-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 14:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164658
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-143 SDG#: DX022-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	3.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164658
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-143 SDG#: DX022-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0197 U	0.0197	1.04	1
11031	12378-PeCDD	40321-76-4	0.0773 JBQ	0.0292	5.19	1
11031	123478-HxCDD	39227-28-6	0.0525 JBQ	0.0273	5.19	1
11031	123678-HxCDD	57653-85-7	0.214 JBQ	0.0281	5.19	1
11031	123789-HxCDD	19408-74-3	0.324 JB	0.0271	5.19	1
11031	1234678-HpCDD	35822-46-9	3.24 JB	0.0371	5.19	1
11031	OCDD	3268-87-9	29.2 B	0.0445	10.4	1
11031	2378-TCDF	51207-31-9	0.0190 U	0.0190	1.04	1
11031	12378-PeCDF	57117-41-6	0.0737 JBQ	0.0101	5.19	1
11031	23478-PeCDF	57117-31-4	0.0574 JBQ	0.0104	5.19	1
11031	123478-HxCDF	70648-26-9	0.0609 JBQ	0.0189	5.19	1
11031	123678-HxCDF	57117-44-9	0.0503 JBQ	0.0155	5.19	1
11031	123789-HxCDF	72918-21-9	0.201 JB	0.0232	5.19	1
11031	234678-HxCDF	60851-34-5	0.0658 JB	0.0187	5.19	1
11031	1234678-HpCDF	67562-39-4	0.645 JB	0.0135	5.19	1
11031	1234789-HpCDF	55673-89-7	0.0660 JBQ	0.0294	5.19	1
11031	OCDF	39001-02-0	1.39 JB	0.0402	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164658
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-143 SDG#: DX022-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-143-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5B-SS-0.0-0.5

LLI Sample # SW 6164658
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:15

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-143 SDG#: DX022-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 15:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-123-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164659
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-123 SDG#: DX022-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164659
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-123 SDG#: DX022-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.159	JB	0.0233	1.06	1
11031	12378-PeCDD	40321-76-4	1.07	JB	0.0597	5.32	1
11031	123478-HxCDD	39227-28-6	2.46	JB	0.0419	5.32	1
11031	123678-HxCDD	57653-85-7	6.79	B	0.0432	5.32	1
11031	123789-HxCDD	19408-74-3	4.83	JB	0.0430	5.32	1
11031	1234678-HpCDD	35822-46-9	201	B	0.147	5.32	1
11031	OCDD	3268-87-9	1,920	B	0.0904	10.6	1
11031	2378-TCDF	51207-31-9	1.29	B	0.0858	1.06	1
11031	12378-PeCDF	57117-41-6	1.00	JB	0.0278	5.32	1
11031	23478-PeCDF	57117-31-4	2.23	JB	0.0282	5.32	1
11031	123478-HxCDF	70648-26-9	1.70	JB	0.0367	5.32	1
11031	123678-HxCDF	57117-44-9	1.84	JB	0.0322	5.32	1
11031	123789-HxCDF	72918-21-9	0.647	JB	0.0424	5.32	1
11031	234678-HxCDF	60851-34-5	2.16	JB	0.0357	5.32	1
11031	1234678-HpCDF	67562-39-4	37.2	B	0.0370	5.32	1
11031	1234789-HpCDF	55673-89-7	2.94	JB	0.0639	5.32	1
11031	OCDF	39001-02-0	114	B	0.0383	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-123-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164659
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-123 SDG#: DX022-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-123-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA5B-SS-0.0-0.5

LLI Sample # SW 6164659
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:40

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-123 SDG#: DX022-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 16:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-124-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164660
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-124 SDG#: DX022-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-124-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164660
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-124 SDG#: DX022-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0882	JBQ	0.0194	1.05	1
11031	12378-PeCDD	40321-76-4	0.542	JB	0.0496	5.27	1
11031	123478-HxCDD	39227-28-6	1.06	JB	0.0285	5.27	1
11031	123678-HxCDD	57653-85-7	2.93	JB	0.0295	5.27	1
11031	123789-HxCDD	19408-74-3	2.43	JB	0.0293	5.27	1
11031	1234678-HpCDD	35822-46-9	93.4	B	0.0926	5.27	1
11031	OCDD	3268-87-9	1,120	B	0.0810	10.5	1
11031	2378-TCDF	51207-31-9	0.373	JBQ	0.0449	1.05	1
11031	12378-PeCDF	57117-41-6	0.841	JB	0.0201	5.27	1
11031	23478-PeCDF	57117-31-4	0.831	JBQ	0.0195	5.27	1
11031	123478-HxCDF	70648-26-9	0.862	JB	0.0261	5.27	1
11031	123678-HxCDF	57117-44-9	0.759	JB	0.0238	5.27	1
11031	123789-HxCDF	72918-21-9	0.773	JBQ	0.0300	5.27	1
11031	234678-HxCDF	60851-34-5	0.840	JB	0.0255	5.27	1
11031	1234678-HpCDF	67562-39-4	14.3	B	0.0249	5.27	1
11031	1234789-HpCDF	55673-89-7	1.05	JB	0.0360	5.27	1
11031	OCDF	39001-02-0	34.2	B	0.0252	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164660
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-124 SDG#: DX022-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SS-0.0-0.5

LLI Sample # SW 6164660
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-124 SDG#: DX022-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 17:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-309-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164661
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-309 SDG#: DX022-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-309-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164661
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-309 SDG#: DX022-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0594	JBQ	0.0131	1.04	1
11031	12378-PeCDD	40321-76-4	0.324	JB	0.0285	5.21	1
11031	123478-HxCDD	39227-28-6	0.585	JBQ	0.0242	5.21	1
11031	123678-HxCDD	57653-85-7	1.50	JB	0.0246	5.21	1
11031	123789-HxCDD	19408-74-3	1.11	JB	0.0241	5.21	1
11031	1234678-HpCDD	35822-46-9	50.0	B	0.0672	5.21	1
11031	OCDD	3268-87-9	626	B	0.0503	10.4	1
11031	2378-TCDF	51207-31-9	0.0495	JB	0.0193	1.04	1
11031	12378-PeCDF	57117-41-6	0.222	JB	0.0126	5.21	1
11031	23478-PeCDF	57117-31-4	0.253	JB	0.0122	5.21	1
11031	123478-HxCDF	70648-26-9	0.701	JB	0.0215	5.21	1
11031	123678-HxCDF	57117-44-9	0.470	JBQ	0.0194	5.21	1
11031	123789-HxCDF	72918-21-9	0.279	JB	0.0222	5.21	1
11031	234678-HxCDF	60851-34-5	0.546	JB	0.0206	5.21	1
11031	1234678-HpCDF	67562-39-4	7.73	B	0.0188	5.21	1
11031	1234789-HpCDF	55673-89-7	0.814	JB	0.0231	5.21	1
11031	OCDF	39001-02-0	15.1	B	0.0195	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-309-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164661
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-309 SDG#: DX022-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-309-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-309-SA5B-SS-0.0-0.5

LLI Sample # SW 6164661
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:25

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-309 SDG#: DX022-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 21:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-311-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164662
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-311 SDG#: DX022-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-311-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164662
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-311 SDG#: DX022-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.331	JB	0.0229	1.08	1
11031	12378-PeCDD	40321-76-4	2.91	JB	0.0556	5.42	1
11031	123478-HxCDD	39227-28-6	5.93	B	0.0495	5.42	1
11031	123678-HxCDD	57653-85-7	12.9	B	0.0509	5.42	1
11031	123789-HxCDD	19408-74-3	11.7	B	0.0499	5.42	1
11031	1234678-HpCDD	35822-46-9	415	B	0.162	5.42	1
11031	OCDD	3268-87-9	5,310	EB	0.140	10.8	1
11031	2378-TCDF	51207-31-9	0.279	JB	0.0348	1.08	1
11031	12378-PeCDF	57117-41-6	0.615	JB	0.0180	5.42	1
11031	23478-PeCDF	57117-31-4	1.00	JB	0.0164	5.42	1
11031	123478-HxCDF	70648-26-9	3.73	JB	0.0339	5.42	1
11031	123678-HxCDF	57117-44-9	3.22	JB	0.0326	5.42	1
11031	123789-HxCDF	72918-21-9	1.29	JB	0.0356	5.42	1
11031	234678-HxCDF	60851-34-5	4.52	JB	0.0338	5.42	1
11031	1234678-HpCDF	67562-39-4	67.1	B	0.0398	5.42	1
11031	1234789-HpCDF	55673-89-7	5.74	B	0.0492	5.42	1
11031	OCDF	39001-02-0	147	B	0.0433	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-311-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164662
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-311 SDG#: DX022-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-311-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-311-SA5B-SS-0.0-0.5

LLI Sample # SW 6164662
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-311 SDG#: DX022-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 22:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-310-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164663
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-310 SDG#: DX022-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-310-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164663
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-310 SDG#: DX022-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0262	JBQ	0.0218	1.05	1
11031	12378-PeCDD	40321-76-4	0.158	JBQ	0.0492	5.27	1
11031	123478-HxCDD	39227-28-6	0.317	JBQ	0.0403	5.27	1
11031	123678-HxCDD	57653-85-7	1.07	JB	0.0427	5.27	1
11031	123789-HxCDD	19408-74-3	0.759	JB	0.0432	5.27	1
11031	1234678-HpCDD	35822-46-9	31.5	B	0.0829	5.27	1
11031	OCDD	3268-87-9	396	B	0.0902	10.5	1
11031	2378-TCDF	51207-31-9	0.159	JBQ	0.0436	1.05	1
11031	12378-PeCDF	57117-41-6	0.355	JB	0.0227	5.27	1
11031	23478-PeCDF	57117-31-4	0.299	JB	0.0216	5.27	1
11031	123478-HxCDF	70648-26-9	0.303	JB	0.0342	5.27	1
11031	123678-HxCDF	57117-44-9	0.268	JB	0.0327	5.27	1
11031	123789-HxCDF	72918-21-9	0.260	JB	0.0354	5.27	1
11031	234678-HxCDF	60851-34-5	0.364	JB	0.0346	5.27	1
11031	1234678-HpCDF	67562-39-4	4.16	JB	0.0307	5.27	1
11031	1234789-HpCDF	55673-89-7	0.450	JBQ	0.0392	5.27	1
11031	OCDF	39001-02-0	9.13	JB	0.0404	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-310-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164663
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-310 SDG#: DX022-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-310-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-310-SA5B-SS-0.0-0.5

LLI Sample # SW 6164663
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-310 SDG#: DX022-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/18/2011 23:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-312-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164664
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-312 SDG#: DX022-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-312-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164664
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-312 SDG#: DX022-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0561	JB	0.0169	1.05	1
11031	12378-PeCDD	40321-76-4	0.462	JB	0.0396	5.26	1
11031	123478-HxCDD	39227-28-6	1.03	JB	0.0309	5.26	1
11031	123678-HxCDD	57653-85-7	2.12	JB	0.0321	5.26	1
11031	123789-HxCDD	19408-74-3	1.93	JB	0.0322	5.26	1
11031	1234678-HpCDD	35822-46-9	67.2	B	0.0824	5.26	1
11031	OCDD	3268-87-9	820	B	0.0831	10.5	1
11031	2378-TCDF	51207-31-9	0.0388	JB	0.0239	1.05	1
11031	12378-PeCDF	57117-41-6	0.212	JB	0.0160	5.26	1
11031	23478-PeCDF	57117-31-4	0.286	JBQ	0.0151	5.26	1
11031	123478-HxCDF	70648-26-9	0.582	JB	0.0298	5.26	1
11031	123678-HxCDF	57117-44-9	0.579	JB	0.0281	5.26	1
11031	123789-HxCDF	72918-21-9	0.226	JBQ	0.0343	5.26	1
11031	234678-HxCDF	60851-34-5	0.785	JB	0.0286	5.26	1
11031	1234678-HpCDF	67562-39-4	11.3	B	0.0281	5.26	1
11031	1234789-HpCDF	55673-89-7	0.851	JB	0.0382	5.26	1
11031	OCDF	39001-02-0	23.6	B	0.0409	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-312-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164664
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-312 SDG#: DX022-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-312-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-312-SA5B-SS-0.0-0.5

LLI Sample # SW 6164664
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:27

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-312 SDG#: DX022-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/19/2011 00:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-025-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164665
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-025 SDG#: DX022-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-025-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164665
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-025 SDG#: DX022-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0310	U	0.0310	1.12	1
11031	12378-PeCDD	40321-76-4	0.156	JBQ	0.0435	5.58	1
11031	123478-HxCDD	39227-28-6	0.106	JB	0.0309	5.58	1
11031	123678-HxCDD	57653-85-7	0.324	JB	0.0326	5.58	1
11031	123789-HxCDD	19408-74-3	0.238	JBQ	0.0328	5.58	1
11031	1234678-HpCDD	35822-46-9	4.55	JB	0.0404	5.58	1
11031	OCDD	3268-87-9	31.4	B	0.0445	11.2	1
11031	2378-TCDF	51207-31-9	0.381	JBQ	0.0598	1.12	1
11031	12378-PeCDF	57117-41-6	0.291	JB	0.0230	5.58	1
11031	23478-PeCDF	57117-31-4	0.690	JB	0.0227	5.58	1
11031	123478-HxCDF	70648-26-9	0.219	JB	0.0273	5.58	1
11031	123678-HxCDF	57117-44-9	0.196	JB	0.0244	5.58	1
11031	123789-HxCDF	72918-21-9	0.0589	JB	0.0310	5.58	1
11031	234678-HxCDF	60851-34-5	0.243	JB	0.0262	5.58	1
11031	1234678-HpCDF	67562-39-4	1.34	JB	0.0290	5.58	1
11031	1234789-HpCDF	55673-89-7	0.142	JBQ	0.0444	5.58	1
11031	OCDF	39001-02-0	2.27	JB	0.0372	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SED-025-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164665
LLI Group # 1225471
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:44

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-025 SDG#: DX022-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-025-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-025-SIV-SD-0.0-0.5

LLI Sample # SW 6164665
LLI Group # 1225471
Account # 13013

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Collected: 12/14/2010 12:44

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Reported: 02/02/2011 18:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-025 SDG#: DX022-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11004001	01/19/2011 01:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11004001	01/04/2011 12:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10355162401B	12/21/2010 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225471
Reported: 02/02/11 at 06:02 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10355162401A	Sample number(s): 6164644-6164656								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10355162401B	Sample number(s): 6164657-6164665								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11004001	Sample number(s): 6164644-6164665								
2378-TCDD	0.0349 J	0.0141	1.00	ng/kg	107		67-158		
12378-PeCDD	0.244 J	0.0285	5.00	ng/kg	108		70-142		
123478-HxCDD	0.206 J	0.0286	5.00	ng/kg	108		70-164		
123678-HxCDD	0.259 J	0.0297	5.00	ng/kg	106		76-134		
123789-HxCDD	0.247 J	0.0290	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.682 J	0.0437	5.00	ng/kg	107		70-140		
OCDD	1.49 J	0.0411	10.0	ng/kg	106		78-144		
2378-TCDF	0.0662 J	0.0140	1.00	ng/kg	118		75-158		
12378-PeCDF	0.242 J	0.0106	5.00	ng/kg	107		80-134		
23478-PeCDF	0.330 J	0.0109	5.00	ng/kg	107		68-160		
123478-HxCDF	0.370 J	0.0229	5.00	ng/kg	101		72-134		
123678-HxCDF	0.338 J	0.0196	5.00	ng/kg	100		84-130		
123789-HxCDF	0.320 J	0.0276	5.00	ng/kg	103		78-130		
234678-HxCDF	0.498 J	0.0219	5.00	ng/kg	102		70-156		
1234678-HpCDF	1.19 J	0.0206	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.343 J	0.0351	5.00	ng/kg	103		78-138		
OCDF	1.16 J	0.0424	10.0	ng/kg	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10355162401A	Sample number(s): 6164644-6164656					BKG: P164622			
28a Moisture Content by 160.3						4.1	4.0	1	20
Batch number: 10355162401B	Sample number(s): 6164657-6164665					BKG: P164635			
28a Moisture Content by 160.3						6.2	6.0	3	20
Batch number: 11004001	Sample number(s): 6164644-6164665					UNSPK: 6164645			
2378-TCDD	108	108	67-158	0	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225471
Reported: 02/02/11 at 06:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	108	108	70-142	0	25				
123478-HxCDD	111	110	70-164	1	25				
123678-HxCDD	108	108	76-134	0	25				
123789-HxCDD	110	109	64-162	0	25				
1234678-HpCDD	110	107	70-140	2	25				
OCDD	114	92	78-144	11	25				
2378-TCDF	108	112	75-158	3	25				
12378-PeCDF	108	110	80-134	1	25				
23478-PeCDF	107	109	68-160	2	25				
123478-HxCDF	103	104	72-134	1	25				
123678-HxCDF	102	104	84-130	1	25				
123789-HxCDF	105	105	78-130	1	25				
234678-HxCDF	104	105	70-156	1	25				
1234678-HpCDF	105	105	82-122	1	25				
1234789-HpCDF	104	105	78-138	1	25				
OCDF	108	105	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11004001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6164644	66	76	79	83	79	75
6164645	68	81	80	86	80	75
6164646	71	82	81	81	80	82
6164647	70	82	83	86	81	78
6164648	67	82	83	86	81	78
6164649	66	78	75	84	76	71
6164650	66	78	82	83	79	77
6164651	72	78	79	86	80	80
6164652	70	81	80	85	81	79
6164653	65	73	73	85	73	68
6164654	70	82	83	85	84	82
6164655	70	78	78	81	79	78
6164656	63	75	75	81	75	72
6164657	57	68	66	77	67	58
6164658	59	69	72	82	70	63
6164659	63	72	75	80	74	72
6164660	66	77	80	83	79	80
6164661	71	82	83	85	82	86
6164662	66	80	80	79	79	81
6164663	71	77	80	79	77	79
6164664	72	85	84	85	84	82
6164665	66	76	77	84	77	75
Blank	70	78	73	82	74	70
MS	71	82	81	81	80	82

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225471
Reported: 02/02/11 at 06:02 PM

Surrogate Quality Control

MSD	70	82	83	86	81	78
OPR	68	71	70	81	71	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6164644	91	76	70	77	71	76
6164645	96	69	57	78	76	78
6164646	81	78	67	75	75	74
6164647	89	73	63	82	77	77
6164648	90	69	57	81	76	78
6164649	97	70	63	75	74	75
6164650	82	71	59	77	71	74
6164651	90	70	57	80	74	77
6164652	94	72	61	79	76	78
6164653	102	64	56	76	71	75
6164654	86	72	59	79	75	79
6164655	85	75	66	78	74	76
6164656	90	69	61	73	71	73
6164657	95	52	41	72	67	69
6164658	102	59	49	72	67	72
6164659	89	64	54	79	70	75
6164660	88	75	69	76	72	76
6164661	84	81	75	80	77	79
6164662	78	77	66	75	72	75
6164663	76	74	64	75	71	75
6164664	82	74	60	80	78	81
6164665	87	70	61	75	73	77
Blank	95	67	59	83	76	76
MS	81	78	67	75	75	74
MSD	89	73	63	82	77	77
OPR	95	58	47	83	73	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6164644	74	73	75	71	73	79
6164645	75	76	76	69	75	86
6164646	74	74	74	66	79	84
6164647	78	76	75	69	77	85
6164648	77	75	74	67	76	84
6164649	75	76	78	72	71	85
6164650	73	71	70	61	75	79
6164651	75	77	74	68	78	85
6164652	76	77	77	71	74	84
6164653	73	73	73	69	68	84
6164654	76	77	74	66	78	79
6164655	73	74	73	67	74	80
6164656	74	72	71	66	70	80
6164657	67	67	68	60	63	77
6164658	69	69	72	66	65	76
6164659	72	71	70	65	70	78
6164660	75	75	73	70	75	78
6164661	78	77	77	73	79	83

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225471
Reported: 02/02/11 at 06:02 PM

Surrogate Quality Control

6164662	73	72	71	62	76	77
6164663	73	72	68	61	75	76
6164664	80	78	75	64	81	83
6164665	75	74	74	66	72	80
Blank	76	75	75	70	71	85
MS	74	74	74	66	79	84
MSD	78	76	75	69	77	85
OPR	76	75	73	65	68	82
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

13013 1225471 61644644-65

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 80156 Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Tarphem/A EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-002-SA5C-SB-4.0-5.0	12.14.10	0942	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-002-SA5C-SB-9.0-10.0	12.14.10	0950	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
TB-121410	12.14.10	0800	water	HCl	2-40 mL VOA vials	X	X		X																				trip blank
EB02-SA5B-121410	12.14.10	1230	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB02-SA5B-121410	12.14.10	1230	water	none	1-500 ml poly							X	X			X													rinsate
EB02-SA5B-121410	12.14.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB02-SA5B-121410	12.14.10	1230	water	HCl	6-40 mL amber VOA vials	X	X		X																				rinsate
SL-002-SA5C-SB-9.5	12.14.10	0948	soil	none	5 Encore Samplers	X	X		X																				
SL-002-SA5C-SB-4.5	12.14.10	0938	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-4.5	12.14.10	1104	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.5	12.14.10	1115	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.0-10.0	12.14.10	1118	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-004-SA5C-SB-4.0-5.0	12.14.10	1111	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-140-SA5C-SB-3.0-4.0	12.14.10	1428	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-140-SA5C-SB-3.5	12.14.10	1425	soil	none	5 Encore Samplers	X	X																						
DUP05-SA5B-QC-121410	12.14.10	0850	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									DUP
SL-120-SA5B-SS-0.0-0.5MS	12.14.10	0847	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X			X	X									MS/MSD
SL-108-SA5B-SS-0.0-0.5	12.14.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-119-SA5B-SS-0.0-0.5	12.14.10	0830	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-240-SA5B-SS-0.0-0.5	12.14.10	0933	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-109-SA5B-SS-0.0-0.5	12.14.10	0909	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-122-SA5B-SS-0.0-0.5	12.14.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-121-SA5B-SS-0.0-0.5	12.14.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-054-SA5B-SS-0.0-0.5	12.14.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-105-SA5B-SS-0.0-0.5	12.14.10	0835	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-098-SA5B-SS-0.0-0.5	12.14.10	1043	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X	X									
SL-142-SA5B-SS-0.0-0.5	12.14.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-143-SA5B-SS-0.0-0.5	12.14.10	1115	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-123-SA5B-SS-0.0-0.5	12.14.10	1040	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-124-SA5B-SS-0.0-0.5	12.14.10	1100	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-309-SA5B-SS-0.0-0.5	12.14.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-311-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-310-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-312-SA5B-SS-0.0-0.5	12.14.10	1427	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-025-SIV-SD-0.0-0.5	12.14.10	1244	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-024-SIV-SD-0.0-0.5	12.14.10	1116	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X	X									
SED-023-SIV-SD-0.0-0.5	12.14.10	0919	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-022-SIV-SD-0.0-0.5	12.14.10	1008	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-125-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-126-SA5B-SS-0.0-0.5	12.14.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-129-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-128-SA5B-SS-0.0-0.5	12.14.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-027-SIV-SD-0.0-0.5	12.14.10	1559	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-026-SIV-SD-0.0-0.5	12.14.10	1522	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-060-SA5C-SB-10.0-11.0	12.14.10	1618	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-060-SA5C-SB-10.5	12.14.10	1614	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by:*(Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		Other Instructions and Notes
	12.14.10 1700		12/15/10	9MC	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. 00732992 Tracking Number 869514317156			No. of coolers = 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/15/2010
Group Number: 1225546
SDG: DE039
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA5C-SB-4.0-5.0 Soil	6164941
SL-002-SA5C-SB-9.0-10.0 Soil	6164942
TB-121410 Water	6164943
EB02-SA5B-121410 Water	6164944
SL-004-SA5C-SB-9.0-10.0 Soil	6164945
SL-004-SA5C-SB-4.0-5.0 Soil	6164946
SL-140-SA5C-SB-3.0-4.0 Soil	6164947
SED-024-SIV-SD-0.0-0.5 Sediment	6164948
SED-023-SIV-SD-0.0-0.5 Sediment	6164949
SED-022-SIV-SD-0.0-0.5 Sediment	6164950
SL-125-SA5B-SS-0.0-0.5 Soil	6164951
SL-126-SA5B-SS-0.0-0.5 Soil	6164952
SL-129-SA5B-SS-0.0-0.5 Soil	6164953
SL-128-SA5B-SS-0.0-0.5 Soil	6164954
SED-027-SIV-SD-0.0-0.5 Sediment	6164955
SED-026-SIV-SD-0.0-0.5 Sediment	6164956
SL-060-SA5C-SB-10.0-11.0 Soil	6164957

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.99
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.99
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.99
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.99
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.99
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.99
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.99
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.99
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.99
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.99
06192	Methylene Chloride	75-09-2	1.2	J	0.25	4.2		0.99
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.99

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.99
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.99
06192	Toluene	108-88-3	0.11	J	0.09	4.2		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.99
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		24.22
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	112		17.8	35.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: **SL-002-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.61
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80	U	80	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53	U	53	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	320	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	320	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	53	U	53	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	53	U	53	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	53	U	53	160	10000000	1
10132	HMX	2691-41-0	130	U	130	400	10000000	1
10132	Nitrobenzene	98-95-3	53	U	53	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,200	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,200	10000000	1
10132	RDX	121-82-4	67	U	67	160	10000000	1
10132	Tetryl	479-45-8	82	U	82	160	10000000	1

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Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	53	U	53	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	53	U	53	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.59	J	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.74	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
	The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	130	J	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-002-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		5.31	21.1		1
07914	Boron	7440-42-8	2.97	J	0.939	5.28		1
01650	Calcium	7440-70-2	3,200		6.47	21.1		1
01654	Iron	7439-89-6	19,800		4.97	21.1		1
01656	Lithium	7439-93-2	22.8		0.23	2.1		1
01657	Magnesium	7439-95-4	3,970		2.68	10.6		1
06958	Manganese	7439-96-5	315		0.0823	0.528		1
10145	Phosphorus	7723-14-0	330		0.591	10.6		1
01662	Potassium	7440-09-7	2,520		19.0	52.8		1
01667	Sodium	7440-23-5	95.4	J	39.4	106		1
07968	Strontium	7440-24-6	12.3		0.0654	0.528		1
06969	Tin	7440-31-5	2.76	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,220		0.401	1.06		1
10146	Zirconium	7440-67-7	0.887	U	0.887	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.59		0.0633	0.422		2
06126	Barium	7440-39-3	63.6		0.114	0.422		2
06127	Beryllium	7440-41-7	0.531		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0891	J	0.0380	0.106		2
06131	Chromium	7440-47-3	14.1		0.127	0.422		2
06132	Cobalt	7440-48-4	5.63		0.0211	0.106		2
06133	Copper	7440-50-8	5.77		0.0697	0.422		2
06135	Lead	7439-92-1	4.71		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.470		0.0528	0.106		2
06139	Nickel	7440-02-0	8.46		0.106	0.422		2
06141	Selenium	7782-49-2	0.101	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0148	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.356		0.0317	0.106		2
06148	Vanadium	7440-62-2	29.5		0.0232	0.106		2
06149	Zinc	7440-66-6	59.4		0.591	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.85	1.6		1

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Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	459		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.45		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	6.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-002-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 19:47	Laura M Krieger	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 12:01	Jason M Long	24.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034923319	12/15/2010 22:20	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 18:08	Timothy J Trees	1

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E3901 SDG#: DE039-01

Laboratory Sample Analysis Record

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04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 11:27	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 18:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 13:36	Elizabeth J Marin	24.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:19	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 09:33	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 00:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 21:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 12:25	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 23:35	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 20:36	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/23/2010 22:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2

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Sample Description: **SL-002-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
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E3901 SDG#: DE039-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 11:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/28/2010 17:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/07/2011 23:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201A	01/07/2011 23:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 14:47	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 12:14	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	34		6.9	8.3		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	5.6	J	1.3	8.3		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.86
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.86
06192	Methylene Chloride	75-09-2	0.88	J	0.25	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.86
06192	Toluene	108-88-3	0.09	J	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.86
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		20.83
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	161		40.0	80.0		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400		1

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Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.41	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90	U	90	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	75	U	75	180	10000000	1
10132	Tetryl	479-45-8	92	U	92	180	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	3,800		720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.96	J	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	2.0		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
	The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	690		120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	2.7	U	2.7	6.3		1
10318	o-Terphenyl	84-15-1	2.7	U	2.7	6.3		1
10318	p-Terphenyl	92-94-4	2.7	U	2.7	6.3		1
	Reporting limits were raised due to limited sample volume.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,300		5.81	23.1		1
07914	Boron	7440-42-8	5.03	J	1.03	5.77		1
01650	Calcium	7440-70-2	24,300		7.08	23.1		1
01654	Iron	7439-89-6	35,300		10.9	46.2		2
01656	Lithium	7439-93-2	27.6		0.25	2.3		1
01657	Magnesium	7439-95-4	8,070		2.93	11.5		1
06958	Manganese	7439-96-5	429		0.0900	0.577		1
10145	Phosphorus	7723-14-0	421		0.646	11.5		1
01662	Potassium	7440-09-7	3,910		20.8	57.7		1
01667	Sodium	7440-23-5	264		43.1	115		1
07968	Strontium	7440-24-6	45.5		0.0716	0.577		1
06969	Tin	7440-31-5	3.01	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,550		0.439	1.15		1
10146	Zirconium	7440-67-7	5.23	J	0.970	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.340		0.0706	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.72		0.0706	0.471		2
06126	Barium	7440-39-3	160		0.127	0.471		2
06127	Beryllium	7440-41-7	0.902		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.454		0.0424	0.118		2
06131	Chromium	7440-47-3	41.1		0.141	0.471		2
06132	Cobalt	7440-48-4	9.79		0.0235	0.118		2
06133	Copper	7440-50-8	16.7		0.0777	0.471		2
06135	Lead	7439-92-1	13.1		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.624		0.0588	0.118		2
06139	Nickel	7440-02-0	19.9		0.118	0.471		2
06141	Selenium	7782-49-2	0.186	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0442	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.381		0.0353	0.118		2
06148	Vanadium	7440-62-2	76.0		0.0259	0.118		2
06149	Zinc	7440-66-6	80.0		0.659	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0046	J	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.96	1.8		1

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Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.63		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	446		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	16.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-002-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010	20:09	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	12:21	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010	22:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034923319	12/15/2010	22:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034923319	12/15/2010	22:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034923319	12/15/2010	22:25	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/14/2011	13:54	Timothy J Trees	2

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Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 13:11	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 19:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 14:12	Elizabeth J Marin	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:24	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 10:15	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 00:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 21:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 12:50	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 00:04	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 19:48	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/23/2010 23:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:43	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3902 SDG#: DE039-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 00:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201A	01/08/2011 00:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 15:59	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11001243201A	01/04/2011 13:58	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-121410 Water**
SSFL Area IV Collocated Soil Sampling
TB-121410

LLI Sample # WW 6164943
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:00

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3903 SDG#: DE039-03TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103502AA	12/16/2010	19:32	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103502AA	12/16/2010	19:32	Sara E Johnson	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10350A94A	12/17/2010	17:00	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10350A94A	12/17/2010	17:00	Katrina T Longenecker	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB02-SA5B-121410 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB02-SA5B-121410 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Sample Description: **EB02-SA5B-121410 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.060	J	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.15	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.12	J	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.16	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.027	J	0.010	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.083	J	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1

Butylbenzylphthalate was detected in the method blank at a concentration of .055 ug/l. The blank value was not subtracted from the analytical result.

The recoveries of several compounds were outside of QC limits in the LCS/LCSD associated with this sample. Sufficient sample was unavailable to repeat the analysis.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.49		1
10407	Dalapon	75-99-0	0.24	U	0.24	1.2		1
10407	2,4-DB	94-82-6	0.29	U	0.29	0.97		1
10407	Dicamba	1918-00-9	0.078	U	0.078	0.29		1
10407	Dinoseb	88-85-7	0.097	U	0.097	0.49		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.49		1
10407	MCPA	94-74-6	290	U	290	970		1
10407	MCPP	93-65-2	49	U	49	190		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.049		1
10407	2,4,5-TP	93-72-1	0.0097	U	0.0097	0.049		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0019	U	0.0019	0.0096		1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0096		1
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0096		1
00177	Gamma BHC - Lindane	58-89-9	0.0019	U	0.0019	0.0096		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.48		1
00177	p,p-DDD	72-54-8	0.0048	U	0.0048	0.019		1
00177	p,p-DDE	72-55-9	0.0048	U	0.0048	0.019		1
00177	p,p-DDT	50-29-3	0.0048	U	0.0048	0.019		1
00177	Delta BHC	319-86-8	0.0028	U	0.0028	0.0096		1
00177	Dieldrin	60-57-1	0.0051	U	0.0051	0.019		1
00177	Endosulfan I	959-98-8	0.0041	U	0.0041	0.0096		1
00177	Endosulfan II	33213-65-9	0.014	U	0.014	0.019		1
00177	Endosulfan Sulfate	1031-07-8	0.0056	U	0.0056	0.019		1
00177	Endrin	72-20-8	0.0078	U	0.0078	0.019		1
00177	Endrin Aldehyde	7421-93-4	0.019	U	0.019	0.096		1
00177	Endrin Ketone	53494-70-5	0.0048	U	0.0048	0.019		1
00177	Heptachlor	76-44-8	0.0025	U	0.0025	0.0096		1
00177	Heptachlor Epoxide	1024-57-3	0.0022	U	0.0022	0.0096		1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.096		1
00177	Mirex	2385-85-5	0.081	U	0.081	0.24		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB02-SA5B-121410 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Toxaphene	8001-35-2	0.96	U	0.96	2.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.096	U	0.096	0.48		1
10227	Aroclor 5442	12642-23-8	0.096	U	0.096	0.48		1
10227	Aroclor 5460	11126-42-4	0.096	U	0.096	0.48		1
10227	PCB-1016	12674-11-2	0.096	U	0.096	0.48		1
10227	PCB-1221	11104-28-2	0.096	U	0.096	0.48		1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48		1
10227	PCB-1242	53469-21-9	0.096	U	0.096	0.48		1
10227	PCB-1248	12672-29-6	0.096	U	0.096	0.48		1
10227	PCB-1254	11097-69-1	0.096	U	0.096	0.48		1
10227	PCB-1260	11096-82-5	0.096	U	0.096	0.48		1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48		1
10227	PCB-1268	11100-14-4	0.15	U	0.15	0.48		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0533	J	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038	U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000075	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00032	J	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB02-SA5B-121410 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103512AA	12/18/2010	00:25	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103502AA	12/16/2010	19:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103502AA	12/16/2010	19:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103512AA	12/18/2010	00:25	Frank A Valla, Jr	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10350WAB026	12/31/2010	23:03	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350WAH026	01/04/2011	16:23	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10350WAB026	12/16/2010	14:50	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10350WAH026	12/17/2010	10:00	Olivia Arosemena	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10350A94A	12/17/2010	17:27	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10350A94A	12/17/2010	17:27	Katrina T Longenecker	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103500036A	12/20/2010	00:47	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103500016A	12/24/2010	11:27	Lisa A Reinert	1

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Analysis Report

Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3904 SDG#: DE039-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103500017A	12/22/2010 09:42	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103500017A	12/16/2010 21:25	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103500016A	12/16/2010 21:25	Karen L Beyer	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103500036A	12/17/2010 12:30	Olivia I Santiago	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 17:02	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 17:02	John P Hook	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 17:02	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:21	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:21	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:21	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10350196902A	12/17/2010 07:59	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/18/2010 15:23	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10349113001A	12/15/2010 11:31	Nicole M Kepley	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	22		6.5	7.7		0.8
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.8
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.8
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.8
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.8
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.8
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.8
06192	2-Butanone	78-93-3	3.4	J	1.2	7.7		0.8
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.8
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.8
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.8
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.8
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.8
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.8
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.8
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.8
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.8
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.8
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.8
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.8
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.8
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.8
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.8
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.8
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.8
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.8
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.8
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.8
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.8
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.8
06192	Methylene Chloride	75-09-2	1.1	J	0.23	3.9		0.8
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.8

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.8
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.8
06192	Toluene	108-88-3	0.08	J	0.08	3.9		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.8
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.8
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.8
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		19.47
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	80.4		20.0	40.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400		1

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Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.53	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1

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Sample Description: **SL-004-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.44
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90	U	90	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	75	U	75	180	10000000	1
10132	Tetryl	479-45-8	92	U	92	180	10000000	1

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Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	2,600		720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.63	U	0.63	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.66	J	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	620		120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1

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Sample Description: **SL-004-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,600		5.99	23.8		1
07914	Boron	7440-42-8	8.24		1.06	5.95		1
01650	Calcium	7440-70-2	26,200		7.29	23.8		1
01654	Iron	7439-89-6	34,100		11.2	47.6		2
01656	Lithium	7439-93-2	28.1		0.26	2.4		1
01657	Magnesium	7439-95-4	8,130		3.02	11.9		1
06958	Manganese	7439-96-5	402		0.0928	0.595		1
10145	Phosphorus	7723-14-0	468		0.666	11.9		1
01662	Potassium	7440-09-7	4,790		21.4	59.5		1
01667	Sodium	7440-23-5	256		44.4	119		1
07968	Strontium	7440-24-6	51.3		0.0738	0.595		1
06969	Tin	7440-31-5	2.81	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,610		0.452	1.19		1
10146	Zirconium	7440-67-7	4.89	J	1.00	5.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.366		0.0700	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.20		0.0700	0.467		2
06126	Barium	7440-39-3	183		0.126	0.467		2
06127	Beryllium	7440-41-7	0.889		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.454		0.0420	0.117		2
06131	Chromium	7440-47-3	43.0		0.140	0.467		2
06132	Cobalt	7440-48-4	10.0		0.0233	0.117		2
06133	Copper	7440-50-8	17.9		0.0770	0.467		2
06135	Lead	7439-92-1	14.0		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.801		0.0583	0.117		2
06139	Nickel	7440-02-0	20.3		0.117	0.467		2
06141	Selenium	7782-49-2	0.252	J	0.0467	0.467		2
06142	Silver	7440-22-4	0.0645	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.439		0.0350	0.117		2
06148	Vanadium	7440-62-2	79.2		0.0257	0.117		2
06149	Zinc	7440-66-6	96.1		0.653	3.50		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	J	0.0034	0.120		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96	U	0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.1		1

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Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.8		0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	438		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	16.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010	20:31	Laura M Krieger	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	12:41	Jason M Long	19.47
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023323	12/16/2010	12:09	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023323	12/16/2010	12:07	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023323	12/16/2010	12:07	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023323	12/16/2010	12:09	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011	19:32	Timothy J Trees	1

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Sample Description: **SL-004-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E3905 SDG#: DE039-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 13:46	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 20:25	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 14:49	Elizabeth J Marin	21.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023324	12/16/2010 12:10	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 10:58	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 01:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 21:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 13:15	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 00:19	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 20:04	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 00:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:46	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-004-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3905 SDG#: DE039-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 00:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201A	01/08/2011 00:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 16:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 14:22	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:25	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.92
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.92
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.92
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.92
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.92
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.92
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.92
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.92
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.92
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.92
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.92
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.92
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.92
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.92
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.92
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.92
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.92
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.92
06192	Methylene Chloride	75-09-2	0.97	J	0.26	4.4		0.92
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.92

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Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.92
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.92
06192	Toluene	108-88-3	0.09	J	0.09	4.4		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.92
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.92
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.92
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.92
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.08
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	66.2		19.9	39.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	21		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	21		1
10138	Chrysene	218-01-9	0.50	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	21		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J	7.2	21		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1

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Sample Description: **SL-004-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	21		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	89	U	89	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	75	U	75	180	10000000	1
10132	Tetryl	479-45-8	91	U	91	180	10000000	1

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Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
	The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	410	J	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,700		5.77	22.9		1
07914	Boron	7440-42-8	4.55	J	1.02	5.74		1
01650	Calcium	7440-70-2	16,000		7.03	22.9		1
01654	Iron	7439-89-6	30,600		10.8	45.9		2
01656	Lithium	7439-93-2	28.2		0.25	2.3		1
01657	Magnesium	7439-95-4	6,590		2.91	11.5		1
06958	Manganese	7439-96-5	370		0.0895	0.574		1
10145	Phosphorus	7723-14-0	311		0.643	11.5		1
01662	Potassium	7440-09-7	3,660		20.7	57.4		1
01667	Sodium	7440-23-5	182		42.8	115		1
07968	Strontium	7440-24-6	34.0		0.0711	0.574		1
06969	Tin	7440-31-5	2.90	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,580		0.436	1.15		1
10146	Zirconium	7440-67-7	3.75	J	0.964	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.318		0.0709	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.70		0.0709	0.473		2
06126	Barium	7440-39-3	160		0.128	0.473		2
06127	Beryllium	7440-41-7	0.928		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.237		0.0425	0.118		2
06131	Chromium	7440-47-3	39.0		0.142	0.473		2
06132	Cobalt	7440-48-4	9.82		0.0236	0.118		2
06133	Copper	7440-50-8	15.8		0.0780	0.473		2
06135	Lead	7439-92-1	12.5		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.470		0.0591	0.118		2
06139	Nickel	7440-02-0	17.8		0.118	0.473		2
06141	Selenium	7782-49-2	0.0746	J	0.0473	0.473		2
06142	Silver	7440-22-4	0.0893	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.422		0.0354	0.118		2
06148	Vanadium	7440-62-2	71.3		0.0260	0.118		2
06149	Zinc	7440-66-6	70.9		0.662	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.95	1.8		1

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Sample Description: **SL-004-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	426		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	16.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 20:54	Laura M Krieger	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 13:01	Jason M Long	19.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023323	12/16/2010 12:08	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023323	12/16/2010 12:07	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023323	12/16/2010 12:07	Stephanie A Sanchez	n.a.

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Sample Description: **SL-004-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
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E3906 SDG#: DE039-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023323	12/16/2010 12:08	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 19:49	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 14:20	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 21:00	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 15:25	Elizabeth J Marin	20.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023323	12/16/2010 12:08	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 11:40	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 01:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 22:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 13:40	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 00:33	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 18:28	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 01:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:50	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1

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Sample Description: **SL-004-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E3906 SDG#: DE039-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 01:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201A	01/08/2011 01:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 17:11	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 14:38	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.94
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.94
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.94
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.94
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.94
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.94
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.94
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.94
06192	Methylene Chloride	75-09-2	2.8	J	0.25	4.2		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.94

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.94
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.94
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.02
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	50	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

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Sample Description: **SL-140-SA5C-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.38	21.4		1
07914	Boron	7440-42-8	2.76	J	0.952	5.35		1
01650	Calcium	7440-70-2	2,770		6.56	21.4		1
01654	Iron	7439-89-6	21,400		5.04	21.4		1
01656	Lithium	7439-93-2	19.6		0.24	2.1		1
01657	Magnesium	7439-95-4	3,570		2.72	10.7		1
06958	Manganese	7439-96-5	143		0.0834	0.535		1
10145	Phosphorus	7723-14-0	131		0.599	10.7		1
01662	Potassium	7440-09-7	1,450		19.3	53.5		1
01667	Sodium	7440-23-5	386		39.9	107		1
07968	Strontium	7440-24-6	26.3		0.0663	0.535		1
06969	Tin	7440-31-5	2.61	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,250		0.406	1.07		1
10146	Zirconium	7440-67-7	2.03	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.88		0.0661	0.441		2
06126	Barium	7440-39-3	132		0.119	0.441		2
06127	Beryllium	7440-41-7	0.666		0.0176	0.110		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA5C-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.0533 J	0.0396	0.110		2
06131	Chromium	7440-47-3	24.6	0.132	0.441		2
06132	Cobalt	7440-48-4	4.65	0.0220	0.110		2
06133	Copper	7440-50-8	8.83	0.0727	0.441		2
06135	Lead	7439-92-1	8.73	0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.412	0.0551	0.110		2
06139	Nickel	7440-02-0	11.0	0.110	0.441		2
06141	Selenium	7782-49-2	0.0532 J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0480 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.352	0.0330	0.110		2
06148	Vanadium	7440-62-2	50.1	0.0242	0.110		2
06149	Zinc	7440-66-6	49.0	0.617	3.30		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0063 J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	381	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.08	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA5C-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3907 SDG#: DE039-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-140-SA5C-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 21:16	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 18:19	Jason M Long	23.02
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034923319	12/15/2010 22:39	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 14:55	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 21:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:38	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 22:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 12:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA5C-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3907 SDG#: DE039-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 01:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 17:35	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 14:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	1.1	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.9	21		1
10138	Fluoranthene	206-44-0	1.2	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.5	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.5	J	0.76	1.9		1
10138	Pyrene	129-00-0	0.95	J	0.76	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	11	U	11	11		1
10401	Dicamba	1918-00-9	1.0	J	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	1.9		1
10401	MCPA	94-74-6	87	U	87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-024-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.38	U	0.38	0.95		5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.95		5
01363	Beta BHC	319-85-7	0.34	U	0.34	0.95		5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.95		5
01363	Chlordane	57-74-9	4.6	U	4.6	19		5
01363	p,p-DDD	72-54-8	0.64	U	0.64	1.9		5
01363	p,p-DDE	72-55-9	0.68	U	0.68	1.9		5
01363	p,p-DDT	50-29-3	1.9	U	1.9	1.9		5
01363	Delta BHC	319-86-8	0.93	J	0.21	0.95		5
01363	Dieldrin	60-57-1	0.65	U	0.65	1.9		5
01363	Endosulfan I	959-98-8	0.25	U	0.25	0.95		5
01363	Endosulfan II	33213-65-9	0.38	U	0.38	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.94	U	0.94	1.9		5
01363	Endrin	72-20-8	0.38	U	0.38	1.9		5
01363	Endrin Aldehyde	7421-93-4	0.99	U	0.99	1.9		5
01363	Endrin Ketone	53494-70-5	0.38	U	0.38	1.9		5
01363	Heptachlor	76-44-8	0.39	J	0.34	0.95		5
01363	Heptachlor Epoxide	1024-57-3	0.62	U	0.62	0.95		5
01363	Methoxychlor	72-43-5	3.1	U	3.1	9.5		5
01363	Mirex	2385-85-5	2.5	U	2.5	2.5		5
01363	Toxaphene	8001-35-2	13	U	13	38		5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	3.1	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	2.4		0.38	1.9		1
10225	PCB-1260	11096-82-5	1.5	J	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-024-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.66	22.5		1
07914	Boron	7440-42-8	3.73	J	1.00	5.62		1
01650	Calcium	7440-70-2	3,960		6.89	22.5		1
01654	Iron	7439-89-6	22,600		5.30	22.5		1
01656	Lithium	7439-93-2	24.5		0.25	2.2		1
01657	Magnesium	7439-95-4	5,470		2.86	11.2		1
06958	Manganese	7439-96-5	309		0.0877	0.562		1
10145	Phosphorus	7723-14-0	434		0.630	11.2		1
01662	Potassium	7440-09-7	3,150		20.2	56.2		1
01667	Sodium	7440-23-5	68.9	J	41.9	112		1
07968	Strontium	7440-24-6	15.2		0.0697	0.562		1
06969	Tin	7440-31-5	2.66	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,350		0.427	1.12		1
10146	Zirconium	7440-67-7	1.51	J	0.944	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.194	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.96		0.0668	0.445		2
06126	Barium	7440-39-3	99.6		0.120	0.445		2
06127	Beryllium	7440-41-7	0.455		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.251		0.0401	0.111		2
06131	Chromium	7440-47-3	21.8		0.134	0.445		2
06132	Cobalt	7440-48-4	7.26		0.0223	0.111		2
06133	Copper	7440-50-8	10.3		0.0735	0.445		2
06135	Lead	7439-92-1	16.7		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.570		0.0557	0.111		2
06139	Nickel	7440-02-0	14.2		0.111	0.445		2
06141	Selenium	7782-49-2	0.206	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0600	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.300		0.0334	0.111		2
06148	Vanadium	7440-62-2	48.1		0.0245	0.111		2
06149	Zinc	7440-66-6	82.8		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

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Sample Description: **SED-024-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3908 SDG#: DE039-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	463	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.78	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011	15:30	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011	22:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010	07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010	07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010	15:15	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011	17:51	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103500020A	12/21/2010	18:03	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010	20:49	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010	22:45	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010	07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010	02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010	01:40	Roman Kuropatkin	1

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Sample Description: **SED-024-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

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E3908 SDG#: DE039-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103500020A	12/17/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:32	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 12:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 02:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 18:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 15:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-024-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3908 SDG#: DE039-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-023-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SED-023-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.4	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.7	20		1
10138	Fluoranthene	206-44-0	1.1	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.6	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.6	J	0.75	1.9		1
10138	Pyrene	129-00-0	1.1	J	0.75	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	14		0.70	1.9		1
10401	Dicamba	1918-00-9	0.69	J	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

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Sample Description: **SED-023-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.37	U	0.37	0.93		5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.93		5
01363	Beta BHC	319-85-7	0.34	U	0.34	0.93		5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.93		5
01363	Chlordane	57-74-9	4.5	U	4.5	19		5
01363	p,p-DDD	72-54-8	0.43	U	0.43	1.9		5
01363	p,p-DDE	72-55-9	0.55	U	0.55	1.9		5
01363	p,p-DDT	50-29-3	1.5	U	1.5	1.9		5
01363	Delta BHC	319-86-8	0.26	J	0.20	0.93		5
01363	Dieldrin	60-57-1	0.55	U	0.55	1.9		5
01363	Endosulfan I	959-98-8	0.25	U	0.25	0.93		5
01363	Endosulfan II	33213-65-9	0.40	U	0.40	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.37	U	0.37	1.9		5
01363	Endrin	72-20-8	0.37	U	0.37	1.9		5
01363	Endrin Aldehyde	7421-93-4	1.3	U	1.3	1.9		5
01363	Endrin Ketone	53494-70-5	0.37	U	0.37	1.9		5
01363	Heptachlor	76-44-8	0.56	J	0.34	0.93		5
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.93		5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.3		5
01363	Mirex	2385-85-5	0.77	U	0.77	1.9		5
01363	Toxaphene	8001-35-2	12	U	12	37		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.4	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.70	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,800		5.47	21.8		1
07914	Boron	7440-42-8	4.10	J	0.969	5.44		1
01650	Calcium	7440-70-2	4,000		6.67	21.8		1

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Sample Description: **SED-023-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	19,900		5.13	21.8		1
01656	Lithium	7439-93-2	22.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,070		2.76	10.9		1
06958	Manganese	7439-96-5	297		0.0849	0.544		1
10145	Phosphorus	7723-14-0	405		0.610	10.9		1
01662	Potassium	7440-09-7	3,290		19.6	54.4		1
01667	Sodium	7440-23-5	67.3	J	40.6	109		1
07968	Strontium	7440-24-6	15.5		0.0675	0.544		1
06969	Tin	7440-31-5	2.38	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,250		0.414	1.09		1
10146	Zirconium	7440-67-7	1.16	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.235		0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.07		0.0666	0.444		2
06126	Barium	7440-39-3	122		0.120	0.444		2
06127	Beryllium	7440-41-7	0.472		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.216		0.0400	0.111		2
06131	Chromium	7440-47-3	23.2		0.133	0.444		2
06132	Cobalt	7440-48-4	7.05		0.0222	0.111		2
06133	Copper	7440-50-8	10.5		0.0733	0.444		2
06135	Lead	7439-92-1	14.2		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.678		0.0555	0.111		2
06139	Nickel	7440-02-0	14.0		0.111	0.444		2
06141	Selenium	7782-49-2	0.313	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0467	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.357		0.0333	0.111		2
06148	Vanadium	7440-62-2	48.9		0.0244	0.111		2
06149	Zinc	7440-66-6	93.4		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0082	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	444		10.0	10.0		1

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Sample Description: **SED-023-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 16:05	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 22:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 16:37	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 18:19	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 21:03	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 23:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1

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Sample Description: **SED-023-SIV-SD-0.0-0.5 Sediment**
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SED-023-SIV-SD-0.0-0.5

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E3909 SDG#: DE039-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 12:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 02:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 18:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 15:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.72	J	0.36	1.8		1
10138	Anthracene	120-12-7	0.68	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.7		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.1		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	5.6		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	20		6.5	19		1
10138	Fluoranthene	206-44-0	16		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.4	J	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.6	J	0.72	1.8		1
10138	Naphthalene	91-20-3	2.6		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	16		0.72	1.8		1
10138	Pyrene	129-00-0	10		0.72	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	14	U	14	14		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	1,800		82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.38		0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.84	U	0.84	0.84		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

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Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.71	U	0.71	1.8		10
01363	Alpha BHC	319-84-6	0.37	U	0.37	1.8		10
01363	Beta BHC	319-85-7	0.65	U	0.65	1.8		10
01363	Gamma BHC - Lindane	58-89-9	2.7		0.37	1.8		10
01363	Chlordane	57-74-9	8.7	U	8.7	37		10
01363	p,p-DDD	72-54-8	0.71	U	0.71	3.7		10
01363	p,p-DDE	72-55-9	0.96	J	0.71	3.7		10
01363	p,p-DDT	50-29-3	1.6	J	0.71	3.7		10
01363	Delta BHC	319-86-8	2.6		0.39	1.8		10
01363	Dieldrin	60-57-1	0.71	U	0.71	3.7		10
01363	Endosulfan I	959-98-8	0.48	U	0.48	1.8		10
01363	Endosulfan II	33213-65-9	0.71	U	0.71	3.7		10
01363	Endosulfan Sulfate	1031-07-8	0.71	U	0.71	3.7		10
01363	Endrin	72-20-8	0.71	U	0.71	3.7		10
01363	Endrin Aldehyde	7421-93-4	1.8	J	0.71	3.7		10
01363	Endrin Ketone	53494-70-5	0.71	U	0.71	3.7		10
01363	Heptachlor	76-44-8	0.65	U	0.65	1.8		10
01363	Heptachlor Epoxide	1024-57-3	0.37	U	0.37	1.8		10
01363	Methoxychlor	72-43-5	3.7	U	3.7	18		10
01363	Mirex	2385-85-5	0.71	U	0.71	3.7		10
01363	Toxaphene	8001-35-2	24	U	24	71		10
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	22	U	22	71		20
10225	Aroclor 5442	12642-23-8	22	U	22	71		20
10225	Aroclor 5460	11126-42-4	22	U	22	71		20
10225	PCB-1016	12674-11-2	7.1	U	7.1	37		20
10225	PCB-1221	11104-28-2	11	U	11	37		20
10225	PCB-1232	11141-16-5	11	U	11	37		20
10225	PCB-1242	53469-21-9	11	U	11	37		20
10225	PCB-1248	12672-29-6	7.1	U	7.1	37		20
10225	PCB-1254	11097-69-1	7.1	U	7.1	37		20
10225	PCB-1260	11096-82-5	7.1	U	7.1	37		20
10225	PCB-1262	37324-23-5	7.1	U	7.1	37		20
10225	PCB-1268	11100-14-4	7.1	U	7.1	37		20
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							

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Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,800		5.34	21.2		1
07914	Boron	7440-42-8	4.54	J	0.944	5.31		1
01650	Calcium	7440-70-2	3,690		6.50	21.2		1
01654	Iron	7439-89-6	19,400		5.00	21.2		1
01656	Lithium	7439-93-2	24.1		0.23	2.1		1
01657	Magnesium	7439-95-4	4,750		2.70	10.6		1
06958	Manganese	7439-96-5	293		0.0828	0.531		1
10145	Phosphorus	7723-14-0	390		0.594	10.6		1
01662	Potassium	7440-09-7	3,120		19.1	53.1		1
01667	Sodium	7440-23-5	79.9	J	39.6	106		1
07968	Strontium	7440-24-6	16.3		0.0658	0.531		1
06969	Tin	7440-31-5	2.34	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,200		0.403	1.06		1
10146	Zirconium	7440-67-7	0.900	J	0.891	5.31		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.23		0.0637	0.424		2
06126	Barium	7440-39-3	110		0.115	0.424		2
06127	Beryllium	7440-41-7	0.438		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.358		0.0382	0.106		2
06131	Chromium	7440-47-3	22.4		0.127	0.424		2
06132	Cobalt	7440-48-4	8.04		0.0212	0.106		2
06133	Copper	7440-50-8	9.68		0.0700	0.424		2
06135	Lead	7439-92-1	10.5		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.611		0.0531	0.106		2
06139	Nickel	7440-02-0	12.6		0.106	0.424		2
06141	Selenium	7782-49-2	0.184	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0842	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.377		0.0318	0.106		2
06148	Vanadium	7440-62-2	44.8		0.0233	0.106		2
06149	Zinc	7440-66-6	99.0		0.594	3.18		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0220	J	0.0029	0.102		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.87	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	453		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 16:40	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 23:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 17:04	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 18:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 21:33	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 23:22	Lindsey K Lafferty	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1

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Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

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E3910 SDG#: DE039-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 12:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 02:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 18:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 15:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3910 SDG#: DE039-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32		6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not oberserved between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	12	U	12	12		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB and 2,4,5-T represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.12	U	0.12	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.36		1
01363	p,p-DDE	72-55-9	30		1.4	7.2		20
01363	p,p-DDT	50-29-3	1.8	U	1.8	1.8		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.30	U	0.30	0.36		1
01363	Endosulfan I	959-98-8	0.064	U	0.064	0.18		1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.24	U	0.24	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	22		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	21		0.35	1.8		1
10225	PCB-1260	11096-82-5	3.1		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-125-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.21	20.7		1
07914	Boron	7440-42-8	2.74	J	0.921	5.18		1
01650	Calcium	7440-70-2	3,340		6.35	20.7		1
01654	Iron	7439-89-6	28,000		9.75	41.4		2
01656	Lithium	7439-93-2	27.9		0.23	2.1		1
01657	Magnesium	7439-95-4	5,570		2.63	10.4		1
06958	Manganese	7439-96-5	375		0.0808	0.518		1
10145	Phosphorus	7723-14-0	795		0.580	10.4		1
01662	Potassium	7440-09-7	5,670		18.6	51.8		1
01667	Sodium	7440-23-5	89.2	J	38.6	104		1
07968	Strontium	7440-24-6	24.6		0.0642	0.518		1
06969	Tin	7440-31-5	2.99	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,510		0.393	1.04		1
10146	Zirconium	7440-67-7	1.36	J	0.870	5.18		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.392		0.0621	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.40		0.0621	0.414		2
06126	Barium	7440-39-3	120		0.112	0.414		2
06127	Beryllium	7440-41-7	0.893		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.489		0.0373	0.104		2
06131	Chromium	7440-47-3	37.2		0.124	0.414		2
06132	Cobalt	7440-48-4	9.90		0.0207	0.104		2
06133	Copper	7440-50-8	21.3		0.0683	0.414		2
06135	Lead	7439-92-1	14.3		0.0108	0.207		2
06138	Molybdenum	7439-98-7	1.26		0.0518	0.104		2
06139	Nickel	7440-02-0	23.4		0.104	0.414		2
06141	Selenium	7782-49-2	0.210	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.414		0.0124	0.104		2
06145	Thallium	7440-28-0	0.522		0.0311	0.104		2
06148	Vanadium	7440-62-2	63.6		0.0228	0.104		2
06149	Zinc	7440-66-6	146		0.580	3.11		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0113	J	0.0029	0.103		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-125-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	496		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	5.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 17:15	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 23:53	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 17:32	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 19:14	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 21:46	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	01/13/2011 00:27	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 23:41	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-125-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3911 SDG#: DE039-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:54	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/28/2010 17:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 02:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 19:12	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 15:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-125-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3911 SDG#: DE039-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.82	J	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.73	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	1.5	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.6	J	6.3	19		1
10138	Fluoranthene	206-44-0	1.7	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.75	J	0.70	1.7		1
10138	Pyrene	129-00-0	1.5	J	0.70	1.7		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not oberserved between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	12	U	12	12		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Sample Description: **SL-126-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB and dicamba represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.12	J	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.065	J	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.095	U	0.095	0.36		1
01363	p,p-DDE	72-55-9	1.8	U	1.8	1.8		1
01363	p,p-DDT	50-29-3	0.73	U	0.73	0.73		1
01363	Delta BHC	319-86-8	0.042	J	0.038	0.17		1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.13	U	0.13	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.30	U	0.30	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.50	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,800		5.23	20.8		1
07914	Boron	7440-42-8	2.45	J	0.925	5.19		1
01650	Calcium	7440-70-2	3,410		6.37	20.8		1
01654	Iron	7439-89-6	28,000		4.89	20.8		1
01656	Lithium	7439-93-2	27.4		0.23	2.1		1
01657	Magnesium	7439-95-4	5,250		2.64	10.4		1
06958	Manganese	7439-96-5	364		0.0810	0.519		1
10145	Phosphorus	7723-14-0	736		0.582	10.4		1
01662	Potassium	7440-09-7	4,480		18.7	51.9		1
01667	Sodium	7440-23-5	100	J	38.8	104		1
07968	Strontium	7440-24-6	23.9		0.0644	0.519		1
06969	Tin	7440-31-5	2.93	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,490		0.395	1.04		1
10146	Zirconium	7440-67-7	4.40	J	0.873	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.292		0.0623	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.68		0.0623	0.416		2
06126	Barium	7440-39-3	115		0.112	0.416		2
06127	Beryllium	7440-41-7	0.852		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.387		0.0374	0.104		2
06131	Chromium	7440-47-3	34.5		0.125	0.416		2
06132	Cobalt	7440-48-4	9.55		0.0208	0.104		2
06133	Copper	7440-50-8	19.2		0.0686	0.416		2
06135	Lead	7439-92-1	16.5		0.0108	0.208		2
06138	Molybdenum	7439-98-7	1.11		0.0519	0.104		2
06139	Nickel	7440-02-0	20.6		0.104	0.416		2
06141	Selenium	7782-49-2	0.169	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.342		0.0125	0.104		2
06145	Thallium	7440-28-0	0.435		0.0312	0.104		2
06148	Vanadium	7440-62-2	60.5		0.0229	0.104		2
06149	Zinc	7440-66-6	140		0.582	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0113	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-126-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3912 SDG#: DE039-12

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	506	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.82	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 17:50	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 00:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 17:59	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 19:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 22:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 23:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-126-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3912 SDG#: DE039-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/28/2010 17:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 03:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 19:36	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11001243201A	01/04/2011 16:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not oberserved between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	17	U	17	17		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	590		80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB and 2,4,5-T represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.065	J	0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.058	J	0.036	0.18		1
01363	Chlordane	57-74-9	8.4	U	8.4	36		10
01363	p,p-DDD	72-54-8	0.99	J	0.70	3.6		10
01363	p,p-DDE	72-55-9	210		7.0	36		100
01363	p,p-DDT	50-29-3	7.9		0.70	3.6		10
01363	Delta BHC	319-86-8	0.093	J	0.038	0.18		1
01363	Dieldrin	60-57-1	1.0	J	0.70	3.6		10
01363	Endosulfan I	959-98-8	0.46	U	0.46	1.8		10
01363	Endosulfan II	33213-65-9	0.70	U	0.70	3.6		10
01363	Endosulfan Sulfate	1031-07-8	1.8	J	0.70	3.6		10
01363	Endrin	72-20-8	0.70	U	0.70	3.6		10
01363	Endrin Aldehyde	7421-93-4	0.86	J	0.70	3.6		10
01363	Endrin Ketone	53494-70-5	0.70	U	0.70	3.6		10
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.36	U	0.36	1.8		10
01363	Methoxychlor	72-43-5	3.6	U	3.6	18		10
01363	Mirex	2385-85-5	0.70	U	0.70	3.6		10
01363	Toxaphene	8001-35-2	23	U	23	70		10
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	35		10
10225	Aroclor 5442	12642-23-8	11	U	11	35		10
10225	Aroclor 5460	11126-42-4	18	J	11	35		10
10225	PCB-1016	12674-11-2	3.5	U	3.5	18		10
10225	PCB-1221	11104-28-2	5.3	U	5.3	18		10
10225	PCB-1232	11141-16-5	5.5	U	5.5	18		10
10225	PCB-1242	53469-21-9	5.3	U	5.3	18		10
10225	PCB-1248	12672-29-6	3.5	U	3.5	18		10
10225	PCB-1254	11097-69-1	3.5	U	3.5	18		10
10225	PCB-1260	11096-82-5	7.6	U	7.6	18		10
10225	PCB-1262	37324-23-5	3.5	U	3.5	18		10
10225	PCB-1268	11100-14-4	3.5	U	3.5	18		10
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,800		5.11	20.3		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	2.49	J	0.904	5.08		1
01650	Calcium	7440-70-2	3,200		6.22	20.3		1
01654	Iron	7439-89-6	25,100		9.56	40.6		2
01656	Lithium	7439-93-2	27.3		0.22	2.0		1
01657	Magnesium	7439-95-4	5,120		2.58	10.2		1
06958	Manganese	7439-96-5	377		0.0792	0.508		1
10145	Phosphorus	7723-14-0	740		0.569	10.2		1
01662	Potassium	7440-09-7	4,580		18.3	50.8		1
01667	Sodium	7440-23-5	84.5	J	37.9	102		1
07968	Strontium	7440-24-6	24.1		0.0630	0.508		1
06969	Tin	7440-31-5	2.55	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,450		0.386	1.02		1
10146	Zirconium	7440-67-7	1.62	J	0.853	5.08		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.403		0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.9		0.0627	0.418		2
06126	Barium	7440-39-3	120		0.113	0.418		2
06127	Beryllium	7440-41-7	1.03		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.468		0.0376	0.105		2
06131	Chromium	7440-47-3	38.0		0.125	0.418		2
06132	Cobalt	7440-48-4	10.4		0.0209	0.105		2
06133	Copper	7440-50-8	21.9		0.0690	0.418		2
06135	Lead	7439-92-1	16.0		0.0109	0.209		2
06138	Molybdenum	7439-98-7	1.23		0.0523	0.105		2
06139	Nickel	7440-02-0	22.6		0.105	0.418		2
06141	Selenium	7782-49-2	0.242	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.133		0.0125	0.105		2
06145	Thallium	7440-28-0	0.491		0.0314	0.105		2
06148	Vanadium	7440-62-2	64.6		0.0230	0.105		2
06149	Zinc	7440-66-6	157		0.585	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0101	J	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3913 SDG#: DE039-13

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	509	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.56	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 22:13	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 01:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 18:27	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 20:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 23:41	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 23:55	Jamie L Brillhart	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	01/07/2011 20:16	Jamie L Brillhart	100
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 00:18	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1

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Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3913 SDG#: DE039-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:58	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/28/2010 17:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 03:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 20:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 16:30	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3913 SDG#: DE039-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-128-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.41	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.8		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	10	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.4	19		1
10138	Chrysene	218-01-9	4.9		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	110		6.4	19		1
10138	Fluoranthene	206-44-0	7.8		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.86	J	0.71	1.8		1
10138	Naphthalene	91-20-3	0.98	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	3.4		0.71	1.8		1
10138	Pyrene	129-00-0	5.8		0.71	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5		1
10401	2,4-DB	94-82-6	39	U	39	39		1
10401	Dicamba	1918-00-9	0.42	J	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	3,200		81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.30	U	0.30	0.30		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: Dicamba and 2,4,5-T							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.18	U	0.18	0.18		1
01363	Beta BHC	319-85-7	0.22		0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	3.8	U	3.8	3.8		1
01363	p,p-DDD	72-54-8	0.097	U	0.097	0.36		1
01363	p,p-DDE	72-55-9	2.4	U	2.4	2.4		1
01363	p,p-DDT	50-29-3	0.90	U	0.90	0.90		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.31	U	0.31	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.26	U	0.26	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	9.8		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	5.4		0.35	1.8		1
10225	PCB-1260	11096-82-5	2.7		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-128-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		5.13	20.4		1
07914	Boron	7440-42-8	2.87	J	0.907	5.10		1
01650	Calcium	7440-70-2	3,290		6.25	20.4		1
01654	Iron	7439-89-6	26,100		9.61	40.8		2
01656	Lithium	7439-93-2	25.0		0.22	2.0		1
01657	Magnesium	7439-95-4	5,090		2.59	10.2		1
06958	Manganese	7439-96-5	394		0.0795	0.510		1
10145	Phosphorus	7723-14-0	587		0.571	10.2		1
01662	Potassium	7440-09-7	5,080		18.4	51.0		1
01667	Sodium	7440-23-5	78.0	J	38.0	102		1
07968	Strontium	7440-24-6	25.6		0.0632	0.510		1
06969	Tin	7440-31-5	3.05	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,480		0.387	1.02		1
10146	Zirconium	7440-67-7	1.38	J	0.857	5.10		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.233		0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.40		0.0630	0.420		2
06126	Barium	7440-39-3	128		0.113	0.420		2
06127	Beryllium	7440-41-7	0.838		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.307		0.0378	0.105		2
06131	Chromium	7440-47-3	46.1		0.126	0.420		2
06132	Cobalt	7440-48-4	10.3		0.0210	0.105		2
06133	Copper	7440-50-8	19.9		0.0693	0.420		2
06135	Lead	7439-92-1	16.6		0.0109	0.210		2
06138	Molybdenum	7439-98-7	1.16		0.0525	0.105		2
06139	Nickel	7440-02-0	27.5		0.105	0.420		2
06141	Selenium	7782-49-2	0.225	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0991	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.479		0.0315	0.105		2
06148	Vanadium	7440-62-2	59.1		0.0231	0.105		2
06149	Zinc	7440-66-6	118		0.588	3.15		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0117	J	0.0030	0.105		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	502		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.65		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	5.7		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 22:48	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 01:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 18:54	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 20:37	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/30/2010 00:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 00:36	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-128-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

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E3914 SDG#: DE039-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 21:01	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/28/2010 18:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/28/2010 18:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 18:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 04:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 21:36	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 16:46	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-128-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3914 SDG#: DE039-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.94	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.85	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.94	J	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.0	J	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not oberserved between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	8.9	U	8.9	8.9		1
10401	Dicamba	1918-00-9	1.3	J	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	240	U	240	290		1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.23		0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.045	U	0.045	0.19		1
01363	Chlordane	57-74-9	4.2	U	4.2	4.2		1
01363	p,p-DDD	72-54-8	0.20	U	0.20	0.39		1
01363	p,p-DDE	72-55-9	0.69	U	0.69	0.69		1
01363	p,p-DDT	50-29-3	2.2	U	2.2	2.2		1
01363	Delta BHC	319-86-8	0.24		0.042	0.19		1
01363	Dieldrin	60-57-1	0.22	U	0.22	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.49		0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.61	U	0.61	0.61		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.093	U	0.093	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.39	U	0.39	0.39		1
01363	Methoxychlor	72-43-5	1.3	U	1.3	1.9		1
01363	Mirex	2385-85-5	0.61	U	0.61	0.61		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6		2
10225	Aroclor 5460	11126-42-4	3.6	J	2.3	7.6		2
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9		2
10225	PCB-1221	11104-28-2	1.2	U	1.2	3.9		2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.9		2
10225	PCB-1242	53469-21-9	1.2	U	1.2	3.9		2
10225	PCB-1248	12672-29-6	6.0	U	6.0	6.0		2
10225	PCB-1254	11097-69-1	11		0.76	3.9		2
10225	PCB-1260	11096-82-5	3.1	U	3.1	3.1		2
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9		2
10225	PCB-1268	11100-14-4	0.76	U	0.76	3.9		2
	When the concentration detected on the primary and confirmation							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: PCB-1248 and PCB-1260.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		5.82	23.1		1
07914	Boron	7440-42-8	4.15	J	1.03	5.79		1
01650	Calcium	7440-70-2	3,280		7.09	23.1		1
01654	Iron	7439-89-6	21,200		5.45	23.1		1
01656	Lithium	7439-93-2	24.6		0.25	2.3		1
01657	Magnesium	7439-95-4	5,510		2.94	11.6		1
06958	Manganese	7439-96-5	308		0.0903	0.579		1
10145	Phosphorus	7723-14-0	446		0.648	11.6		1
01662	Potassium	7440-09-7	3,150		20.8	57.9		1
01667	Sodium	7440-23-5	86.1	J	43.2	116		1
07968	Strontium	7440-24-6	18.0		0.0718	0.579		1
06969	Tin	7440-31-5	2.57	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,250		0.440	1.16		1
10146	Zirconium	7440-67-7	1.31	J	0.972	5.79		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.164	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.17		0.0681	0.454		2
06126	Barium	7440-39-3	126		0.123	0.454		2
06127	Beryllium	7440-41-7	0.500		0.0182	0.113		2
06128	Cadmium	7440-43-9	0.259		0.0408	0.113		2
06131	Chromium	7440-47-3	26.8		0.136	0.454		2
06132	Cobalt	7440-48-4	7.14		0.0227	0.113		2
06133	Copper	7440-50-8	10.6		0.0749	0.454		2
06135	Lead	7439-92-1	16.2		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.731		0.0567	0.113		2
06139	Nickel	7440-02-0	15.8		0.113	0.454		2
06141	Selenium	7782-49-2	0.225	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.146		0.0136	0.113		2
06145	Thallium	7440-28-0	0.347		0.0340	0.113		2
06148	Vanadium	7440-62-2	54.9		0.0250	0.113		2
06149	Zinc	7440-66-6	88.1		0.635	3.40		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0513	J	0.0032	0.111		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.93	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	501		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.96		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011	23:23	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011	02:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010	07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010	07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010	19:22	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011	21:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/30/2010	00:22	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010	00:55	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010	07:00	Joseph S Feister	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3915 SDG#: DE039-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 12:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 04:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 22:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 17:18	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3915 SDG#: DE039-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	47	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	1.0	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.1		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.3		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	5.6		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.8	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	9.1	J	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	5.1		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	8.6		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	3.9		0.77	1.9		1
10138	Pyrene	129-00-0	6.1		0.77	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.3	U	1.3	2.0		1
10401	Dicamba	1918-00-9	0.57	J	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	1,200		88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: dicamba, 2,4,5-T and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.066	J	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.21	U	0.21	0.39		1
01363	p,p-DDE	72-55-9	1.9	U	1.9	1.9		1
01363	p,p-DDT	50-29-3	4.4		0.38	2.0		5
01363	Delta BHC	319-86-8	0.17	U	0.17	0.19		1
01363	Dieldrin	60-57-1	0.87	U	0.87	0.87		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.092	U	0.092	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.44	U	0.44	0.44		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.64	U	0.64	0.64		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.19		1
01363	Methoxychlor	72-43-5	0.49	U	0.49	1.9		1
01363	Mirex	2385-85-5	0.42	U	0.42	0.42		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7		2
10225	Aroclor 5460	11126-42-4	22		2.3	7.7		2
10225	PCB-1016	12674-11-2	0.77	U	0.77	3.9		2
10225	PCB-1221	11104-28-2	1.2	U	1.2	3.9		2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.9		2
10225	PCB-1242	53469-21-9	1.2	U	1.2	3.9		2
10225	PCB-1248	12672-29-6	17		0.77	3.9		2
10225	PCB-1254	11097-69-1	18		0.77	3.9		2
10225	PCB-1260	11096-82-5	12		0.77	3.9		2
10225	PCB-1262	37324-23-5	0.77	U	0.77	3.9		2
10225	PCB-1268	11100-14-4	0.77	U	0.77	3.9		2
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.78	23.0		1
07914	Boron	7440-42-8	4.12	J	1.02	5.74		1
01650	Calcium	7440-70-2	3,130		7.04	23.0		1
01654	Iron	7439-89-6	22,200		5.41	23.0		1
01656	Lithium	7439-93-2	25.7		0.25	2.3		1
01657	Magnesium	7439-95-4	4,510		2.92	11.5		1
06958	Manganese	7439-96-5	340		0.0896	0.574		1
10145	Phosphorus	7723-14-0	437		0.643	11.5		1
01662	Potassium	7440-09-7	3,830		20.7	57.4		1
01667	Sodium	7440-23-5	112	J	42.8	115		1
07968	Strontium	7440-24-6	20.6		0.0712	0.574		1
06969	Tin	7440-31-5	2.97	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,290		0.436	1.15		1
10146	Zirconium	7440-67-7	0.965	U	0.965	5.74		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.61		0.0689	0.459		2
06126	Barium	7440-39-3	150		0.124	0.459		2
06127	Beryllium	7440-41-7	0.666		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.260		0.0413	0.115		2
06131	Chromium	7440-47-3	24.3		0.138	0.459		2
06132	Cobalt	7440-48-4	7.27		0.0230	0.115		2
06133	Copper	7440-50-8	11.3		0.0758	0.459		2
06135	Lead	7439-92-1	19.5		0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.940		0.0574	0.115		2
06139	Nickel	7440-02-0	15.0		0.115	0.459		2
06141	Selenium	7782-49-2	0.177	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.575		0.0138	0.115		2
06145	Thallium	7440-28-0	0.465		0.0345	0.115		2
06148	Vanadium	7440-62-2	46.8		0.0253	0.115		2
06149	Zinc	7440-66-6	105		0.643	3.45		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.614		0.0033	0.114		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.93	1.2		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	422		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.28		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	13.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 23:57	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 02:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 19:50	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 21:33	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/30/2010 00:37	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	01/07/2011 20:31	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 01:13	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3916 SDG#: DE039-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/28/2010 18:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 04:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 22:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 17:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103B	12/16/2010 14:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3916 SDG#: DE039-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403B	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA5C-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	3.3	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.39
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	74.9		19.1	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1

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Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-060-SA5C-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U	86	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	72	U	72	170	10000000	1
10132	Tetryl	479-45-8	88	U	88	170	10000000	1

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Sample Description: SL-060-SA5C-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	1.2	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	3.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	8.9		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	160	J	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	2.6	U	2.6	6.0		1
10318	o-Terphenyl	84-15-1	2.6	U	2.6	6.0		1
10318	p-Terphenyl	92-94-4	2.6	U	2.6	6.0		1
	Reporting limits were raised due to limited sample volume.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400		5.55	22.1		1
07914	Boron	7440-42-8	0.988	J	0.983	5.52		1
01650	Calcium	7440-70-2	4,230		6.77	22.1		1
01654	Iron	7439-89-6	25,900		10.4	44.2		2
01656	Lithium	7439-93-2	31.9		0.24	2.2		1
01657	Magnesium	7439-95-4	6,480		2.80	11.0		1
06958	Manganese	7439-96-5	387		0.0861	0.552		1
10145	Phosphorus	7723-14-0	537		0.618	11.0		1
01662	Potassium	7440-09-7	3,500		19.9	55.2		1
01667	Sodium	7440-23-5	133		41.2	110		1
07968	Strontium	7440-24-6	22.3		0.0684	0.552		1
06969	Tin	7440-31-5	2.92	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,610		0.420	1.10		1
10146	Zirconium	7440-67-7	0.927	U	0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.391		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.5		0.0662	0.442		2
06126	Barium	7440-39-3	183		0.119	0.442		2
06127	Beryllium	7440-41-7	0.913		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.220		0.0397	0.110		2
06131	Chromium	7440-47-3	37.4		0.132	0.442		2
06132	Cobalt	7440-48-4	11.7		0.0221	0.110		2
06133	Copper	7440-50-8	19.2		0.0729	0.442		2
06135	Lead	7439-92-1	12.3		0.0115	0.221		2
06138	Molybdenum	7439-98-7	1.12		0.0552	0.110		2
06139	Nickel	7440-02-0	23.8		0.110	0.442		2
06141	Selenium	7782-49-2	0.268	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0336	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.657		0.0331	0.110		2
06148	Vanadium	7440-62-2	71.0		0.0243	0.110		2
06149	Zinc	7440-66-6	119		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	J	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1

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Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	423		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	12.9		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-060-SA5C-SB-10.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 21:39	Laura M Krieger	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 13:40	Jason M Long	20.39
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034923319	12/15/2010 22:43	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 20:07	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/15/2011 00:32	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 03:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 16:02	Elizabeth J Marin	23.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:42	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 12:22	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 01:22	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 01:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 16:11	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 00:48	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 17:40	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 02:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 21:05	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 01/19/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E3917 SDG#: DE039-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 05:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201B	01/08/2011 05:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 22:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 17:50	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103B	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403B	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103501AA	Sample number(s): 6164941-6164942,6164945-6164947,6164957									
Acetone	6.7	U	6.7	8.0	ug/kg	189	181	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93	92	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	101	101	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	76	77	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	144	139	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100	99	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	99	99	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	94	95	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	102	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98	98	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	80	82	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	106	103	43-146	3	30
Chloroform	0.37	J	0.12	4.0	ug/kg	104	103	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	89	90	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	96	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	95	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	84	85	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	97	94	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	97	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	95	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	93	93	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	93	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	76	75	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103	102	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	100	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103	102	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	101	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104	103	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	100	99	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	101	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	104	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	94	96	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	95	94	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	100	61-126	1	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	85	85	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90	91	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	95	93	45-155	3	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	100	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	101	100	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	84	82	61-134	3	30
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	99	100	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101	101	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	97	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	98	97	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	97	95	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	98	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	101	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	92	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90	91	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103	101	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99	96	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	100	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	86	85	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	99	95	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	98	99	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	98	98	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88	88	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101	100	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	96	80-120	2	30
Batch number: E103502AA	Sample number(s): 6164943-6164944									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	98		60-132		
Batch number: E103511AA	Sample number(s): 6164941-6164942,6164945-6164947,6164957									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	102	101	70-130	1	30
Batch number: Y103512AA	Sample number(s): 6164944									
Acetone	6	U	6.	20	ug/l	186	190	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	96	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	103	103	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	94	92	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	91	91	80-120	0	30
Bromoform	1	U	1.	5	ug/l	93	92	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	87	79	44-120	10	30
2-Butanone	3	U	3.	10	ug/l	125	130	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	100	100	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	107	106	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	96	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	82	75	49-129	9	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	102	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	98	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	83	81	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	103	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	73	76	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	105	108	66-120	3	30
Dibromochloromethane	1	U	1.	5	ug/l	94	94	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	72	47-120	6	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	96	95	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	100	103	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	93	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	90	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	95	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	87	87	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	112	115	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	98	99	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	116	120	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	102	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	95	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	97	97	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	98	100	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	110	108	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	97	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	107	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	98	97	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	94	92	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	105	104	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Batch number: 10350WAB026	Sample number(s): 6164944									
Aniline	1	U	1.	5	ug/l	67	66	49-101	1	30
Benzidine	20	U	20.	60	ug/l	64	62	20-109	3	30
Benzoic acid	6	U	6.	15	ug/l	30	48	10-69	44*	30
Benzyl alcohol	5	U	5.	15	ug/l	79	91	66-97	14	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	86	107	82-117	22	30
Carbazole	1	U	1.	5	ug/l	92	110	81-114	18	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	89	112	70-123	22	30
4-Chloroaniline	1	U	1.	5	ug/l	51	58	42-124	14	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	89	109	74-124	20	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	90	105	77-108	16	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	105	62-127	13	30
2-Chloronaphthalene	2	U	2.	5	ug/l	77	81	54-132	5	30
2-Chlorophenol	1	U	1.	5	ug/l	91	109*	77-108	18	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	90	111	82-111	21	30
Dibenzofuran	1	U	1.	5	ug/l	91	111*	83-108	20	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	84	94	67-108	12	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	83	93	63-110	12	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	93	65-113	12	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	53	57	49-111	9	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	96	117*	80-109	20	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	117*	72-110	20	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	93	117	70-130	23	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	86	102	78-119	17	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	77	91	64-120	16	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	93	110	81-115	17	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	90	110	85-115	20	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	118*	78-116	21	30
Hexachlorobenzene	1	U	1.	5	ug/l	88	108	81-118	20	30
Hexachlorobutadiene	1	U	1.	5	ug/l	81	92	57-124	13	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	71	77	10-118	8	30
Hexachloroethane	1	U	1.	5	ug/l	80	91	52-113	13	30
Isophorone	1	U	1.	5	ug/l	91	114	74-117	22	30
2-Methylphenol	1	U	1.	5	ug/l	85	102*	64-101	18	30
4-Methylphenol	2	U	2.	5	ug/l	76	93	61-103	21	30
2-Nitroaniline	1	U	1.	5	ug/l	91	111	83-116	20	30
3-Nitroaniline	1	U	1.	5	ug/l	88	101	74-113	14	30
4-Nitroaniline	1	U	1.	5	ug/l	74	82	59-100	11	30
Nitrobenzene	1	U	1.	5	ug/l	90	104	75-109	14	30
2-Nitrophenol	1	U	1.	5	ug/l	91	108	86-120	18	30
4-Nitrophenol	10	U	10.	30	ug/l	44	53	16-78	19	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	89	108	69-110	19	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	91	111	67-136	20	30
Pentachlorophenol	3	U	3.	15	ug/l	75	84	53-110	12	30
Phenol	1	U	1.	5	ug/l	40	47	29-67	17	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	100	71-112	16	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	108*	79-107	19	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	93	110	81-113	17	30
Batch number: 10350WAH026	Sample number(s): 6164944									
Acenaphthene	0.010	U	0.010	0.050	ug/l	75	78	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	80	82	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	77	78	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	78	79	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	73	79	64-115	8	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	79	75	69-123	5	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	73	69	68-125	5	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	75	71*	72-122	5	30
Butylbenzylphthalate	0.055	J	0.050	1.0	ug/l	71	73	70-130	2	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	80	80	70-130	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	75*	77	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	75	69*	71-125	8	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	67*	65*	70-130	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	67*	71	70-130	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	86	87	70-130	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	78	67*	75-116	16	30
Fluorene	0.010	U	0.010	0.050	ug/l	79	78	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	74	69	69-124	7	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	77	69*	71-117	11	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	71*	66*	75-115	7	30
Naphthalene	0.010	U	0.010	0.050	ug/l	74	75	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	59*	58*	70-130	1	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	74	71	70-130	5	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	77	78	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	72	72	69-118	1	30
Batch number: 10354SLF026	Sample number(s): 6164941-6164942,6164945-6164957									

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aniline	170 U		170.	500	ug/kg	46		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	42		15-121		
Benzoic acid	170 U		170.	500	ug/kg	92		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Carbazole	17	U	17.	170	ug/kg	105		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	86		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	101		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	47		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	89		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	88		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	107		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	106		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	100		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	111		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	88		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	110		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	69		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	110		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	91		35-106		
Phenol	17	U	17.	170	ug/kg	90		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	105		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	109		78-111		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10354SLI026	Sample number(s): 6164941-6164942,6164945-6164957									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	72		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	72		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	75		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	77		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	72		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	81		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	61		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	76		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	75		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	81*		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	77*		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	61*		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	63*		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	77		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	88		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	76*		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	69*		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	61*		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	73		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	69		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	71		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	68		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	72		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	76		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	88		56-121		
Batch number: 10361SLB026	Sample number(s): 6164941-6164942,6164945-6164946,6164957									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	100		70-130		
Batch number: 10349A34B	Sample number(s): 6164941-6164942,6164945-6164946,6164957									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	79	78	67-119	1	30
Batch number: 10350A94A	Sample number(s): 6164943-6164944									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 103550019A	Sample number(s): 6164941-6164942,6164945-6164946,6164957									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	90	89	54-134	2	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	90	88	54-134	2	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	108		80-120		
HMX	130 U		130.	380	ug/kg	83		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	102		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	108		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	109		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	107		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PETN	1,000 U		1,000.	3,000	ug/kg	106		80-120		
RDX	63	U	63.	150	ug/kg	106		75-131		
Tetryl	77	U	77.	150	ug/kg	135		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	121		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	109		80-120		
Batch number: 103510021A	Sample number(s): 6164941-6164942,6164945-6164946,6164957									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	100		80-126		
Batch number: 103500036A	Sample number(s): 6164944									
2,4-D	0.16	U	0.16	0.50	ug/l	116	128	45-128	10	30
Dalapon	0.25	U	0.25	1.3	ug/l	81	89	40-100	9	30
2,4-DB	0.30	U	0.30	1.0	ug/l	100	112	41-138	11	30
Dicamba	0.080	U	0.080	0.30	ug/l	124	132	51-144	6	30
Dinoseb	0.10	U	0.10	0.50	ug/l	63	72	23-93	14	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	120	136	72-145	13	30
MCPA	300 U		300.	1,000	ug/l	100	112	69-129	11	30
MCPP	50	U	50.	200	ug/l	112	124	66-132	10	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	108	120	53-141	11	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	112	116	56-135	4	30
Batch number: 103570025A	Sample number(s): 6164948-6164956									
2,4-D	1.2	U	1.2	3.6	ug/kg	144*		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	78		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	97		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	98		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	119		60-141		
MCPA	76	U	76.	250	ug/kg	90		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	107		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	96		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	98		48-138		
Batch number: 103500020A	Sample number(s): 6164948									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 103500016A	Sample number(s): 6164944									
Aldrin	0.0020	U	0.0020	0.010	ug/l	96	101	54-159	5	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	101	102	59-146	1	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	98	101	73-147	3	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	95	101	68-128	6	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	100	110	71-139	10	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	126	137*	66-130	8	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	85	90	53-126	6	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	103	113	76-148	10	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	100	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	78	83	68-128	6	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	90	95	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	95	100	71-142	5	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	85	52-132	0	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	105	110	68-139	5	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	90	105	69-146	15	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	93	102	57-126	9	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	98	102	73-156	4	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.030	U	0.030	0.10	ug/l	91	97	52-133	6	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103500017A	Sample number(s): 6164944									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	58*	56*	75-125	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	102	100	68-119	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	112	112	68-121	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103510029A	Sample number(s): 6164948-6164956									
Aldrin	0.066	U	0.066	0.17	ug/kg	87		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	103		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	106		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	104		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	105		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	101		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	97		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	100		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	111		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	118		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	95		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	113		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	121		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	131*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103540019A	Sample number(s): 6164941-6164942,6164945-6164957									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	58*	55*	75-125	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	116		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103570006A	Sample number(s): 6164941-6164942,6164945-6164946,6164957									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	75		66-113		
Batch number: 103510010A	Sample number(s): 6164941-6164942,6164945-6164946,6164957									
Diethylene glycol	5.0	U	5.0	13	mg/kg	79		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	79		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	72*		75-125		
Batch number: 103540002A	Sample number(s): 6164941-6164942,6164945-6164946,6164957									
Ethanol	100	U	100.	500	ug/kg	87		75-112		
Isopropanol	100	U	100.	500	ug/kg	90		75-125		
Methanol	100	U	100.	500	ug/kg	78		75-134		
Batch number: 103550027A	Sample number(s): 6164941-6164942,6164945-6164946,6164957									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100	102	75-125	2	20
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104	106	75-125	2	20
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	99	101	75-125	2	20
Batch number: 103511026004A	Sample number(s): 6164941-6164942,6164945-6164957									
Antimony	0.0600	U	0.0600	0.200	mg/kg	120		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	101		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0774	J	0.0360	0.100	mg/kg	114		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	103		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.0704	J	0.0660	0.400	mg/kg	98		80-120		
Lead	0.0185	J	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0412	J	0.0300	0.100	mg/kg	112		81-119		
Vanadium	0.0507	J	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	101		78-122		
Batch number: 103511026004B	Sample number(s): 6164941-6164942,6164945-6164957									
Selenium	0.0400	U	0.0400	0.400	mg/kg	95		79-122		
Batch number: 103511026004C	Sample number(s): 6164941-6164942,6164945-6164957									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 103511026004D	Sample number(s): 6164941-6164942,6164945-6164957									
Barium	0.108	U	0.108	0.400	mg/kg	101		79-121		
Batch number: 103515708009	Sample number(s): 6164941-6164942,6164945-6164957									
Aluminum	5.03	U	5.03	20.0	mg/kg	100		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	94		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	99		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	109		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	1.51	J	0.560	10.0	mg/kg	102		80-120		
Potassium	31.3	J	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	106		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tin	1.41 J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	107		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 103515711005	Sample number(s): 6164941-6164942,6164945-6164957								
Mercury	0.0028 U	0.0028	0.0961	mg/kg	96		88-123		
Batch number: 103545713001	Sample number(s): 6164944								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	97		80-120		
Batch number: 103551848003	Sample number(s): 6164944								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	92	90-112	4	20
Boron	0.0138 U	0.0138	0.0500	mg/l	97	94	90-110	3	20
Calcium	0.0960 J	0.0702	0.200	mg/l	102	99	90-112	3	20
Iron	0.0522 U	0.0522	0.200	mg/l	102	98	90-112	4	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	98	80-120	2	20
Magnesium	0.0421 J	0.0172	0.100	mg/l	101	98	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	101	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	100	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	97	90-110	3	20
Tin	0.0098 U	0.0098	0.0200	mg/l	103	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	99	80-120	3	20
Batch number: 103556050002A	Sample number(s): 6164944								
Antimony	0.00030 U	0.00030	0.0010	mg/l	105	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	106	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	108	103	90-112	5	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	102	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	104	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	104	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	109	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	107	108	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	101	89-116	0	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	80-120	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	109	105	80-120	4	20
Batch number: 103556050002B	Sample number(s): 6164944								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	107	85-114	0	20
Batch number: 103556050002C	Sample number(s): 6164944								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	103	80-120	2	20
Batch number: 103556050002D	Sample number(s): 6164944								
Barium	0.00038 U	0.00038	0.0020	mg/l	107	106	88-113	1	20
Batch number: 10349113001A	Sample number(s): 6164944								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	99		90-110		
Batch number: 10350196902A	Sample number(s): 6164944								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10352658701A	Sample number(s): 6164944									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	90	91	85-115	1	20
Batch number: 10361102202A	Sample number(s): 6164941-6164942,6164945									
21a Cyanide by 9012B	0.13	U	0.13	0.50	mg/kg	105		80-120		
Batch number: 10361102202B	Sample number(s): 6164946,6164957									
21a Cyanide by 9012B	0.13	U	0.13	0.50	mg/kg	105		80-120		
Batch number: 11001243201A	Sample number(s): 6164941-6164942,6164945-6164957									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11005005201A	Sample number(s): 6164941-6164942,6164945-6164952									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11005005201B	Sample number(s): 6164953-6164957									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11007007201A	Sample number(s): 6164941-6164942,6164945-6164952									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11007007201B	Sample number(s): 6164953-6164957									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	104		90-110		
Batch number: 10350039402B	Sample number(s): 6164941-6164942,6164945-6164946									
22a pH by 9045C						100		95-105		
Batch number: 10350039403A	Sample number(s): 6164947-6164955									
22a pH by 9045C						101		95-105		
Batch number: 10350039403B	Sample number(s): 6164956-6164957									
22a pH by 9045C						101		95-105		
Batch number: 10350182102B	Sample number(s): 6164941-6164942,6164945-6164946									
Oxidation Reduction Potential						100		98-102		
Batch number: 10350182103A	Sample number(s): 6164947-6164955									
Oxidation Reduction Potential						100		98-102		
Batch number: 10350182103B	Sample number(s): 6164956-6164957									
Oxidation Reduction Potential						100		98-102		
Batch number: 10350162401A	Sample number(s): 6164948-6164956									
28a Moisture Content by 160.3						100		80-120		
Batch number: 10364162402A	Sample number(s): 6164942,6164945-6164947									
28a Moisture Content by 160.3						100		80-120		
Batch number: 10364162402B	Sample number(s): 6164941									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11005162401A	Sample number(s): 6164957									
28a Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103501AA	Sample number(s): 6164941-6164942,6164945-6164947,6164957 UNSPK: 6164946								
Acetone	176		15-210						
Benzene	108		55-143						
Bromobenzene	92		43-139						
Bromochloromethane	98		60-137						
Bromodichloromethane	99		53-136						
Bromoform	87		38-124						
Bromomethane	80		42-168						
2-Butanone	125		37-163						
n-Butylbenzene	100		30-146						
sec-Butylbenzene	100		33-157						
tert-Butylbenzene	94		41-152						
Carbon Tetrachloride	108		45-153						
Chlorobenzene	99		49-135						
Chloroethane	86		39-152						
2-Chloroethyl Vinyl Ether	90		32-139						
Chloroform	106		61-142						
Chloromethane	101		51-163						
2-Chlorotoluene	97		42-146						
4-Chlorotoluene	97		39-145						
1,2-Dibromo-3-chloropropane	78		30-139						
Dibromochloromethane	94		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	97		57-130						
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	92		34-134						
1,4-Dichlorobenzene	93		35-136						
Dichlorodifluoromethane	83		26-151						
1,1-Dichloroethane	108		63-142						
1,2-Dichloroethane	103		68-131						
1,1-Dichloroethene	114		61-149						
cis-1,2-Dichloroethene	105		60-136						
trans-1,2-Dichloroethene	109		59-142						
1,2-Dichloropropane	104		62-135						
1,3-Dichloropropane	97		58-129						
2,2-Dichloropropane	101		53-147						
1,1-Dichloropropene	108		54-145						
cis-1,3-Dichloropropene	91		51-131						
trans-1,3-Dichloropropene	88		49-129						
Ethylbenzene	101		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	88		10-155						
2-Hexanone	78		32-160						
Isopropylbenzene	100		38-144						
p-Isopropyltoluene	99		29-152						
Methyl Tertiary Butyl Ether	93		55-129						
4-Methyl-2-pentanone	68		46-139						
Methylene Chloride	101		61-141						
n-Propylbenzene	104		39-157						
Styrene	99		35-134						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,1,2-Tetrachloroethane	99		52-130						
1,1,2,2-Tetrachloroethane	87		40-152						
Tetrachloroethene	101		42-149						
Toluene	104		50-146						
1,2,3-Trichlorobenzene	80		10-140						
1,2,4-Trichlorobenzene	81		10-136						
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	95		54-139						
Trichloroethene	103		53-144						
Trichlorofluoromethane	94		47-163						
1,2,3-Trichloropropane	85		45-154						
1,2,4-Trimethylbenzene	98		37-149						
1,3,5-Trimethylbenzene	99		38-150						
Vinyl Chloride	91		50-154						
m+p-Xylene	102		44-137						
o-Xylene	96		42-137						
Batch number: E103502AA	Sample number(s): 6164943-6164944 UNSPK: P165404								
1,4-Dioxane	110	102	50-150	7	30				
Batch number: 10354SLF026	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941								
Aniline	50	54	14-114	8	30				
Benzidine	27*	40	35-141	37*	30				
Benzoic acid	52	49	10-173	6	30				
Benzyl alcohol	80	84	55-123	4	30				
4-Bromophenyl-phenylether	92	94	67-129	2	30				
Carbazole	102	104	64-120	3	30				
4-Chloro-3-methylphenol	89	88	53-130	1	30				
4-Chloroaniline	70	71	23-95	2	30				
bis(2-Chloroethoxy)methane	96	94	54-117	2	30				
bis(2-Chloroethyl)ether	86	90	60-116	5	30				
bis(2-Chloroisopropyl)ether	83	84	55-142	2	30				
2-Chloronaphthalene	84	84	50-141	1	30				
2-Chlorophenol	87	91	73-121	5	30				
4-Chlorophenyl-phenylether	93	95	64-119	2	30				
Dibenzofuran	96	98	71-112	2	30				
1,2-Dichlorobenzene	86	89	66-108	4	30				
1,3-Dichlorobenzene	85	88	63-109	4	30				
1,4-Dichlorobenzene	87	92	53-113	5	30				
3,3'-Dichlorobenzidine	65	68	25-123	6	30				
2,4-Dichlorophenol	94	95	78-117	1	30				
2,4-Dimethylphenol	89	92	56-130	4	30				
3,5-Dimethylphenol	101	100	70-130	2	30				
4,6-Dinitro-2-methylphenol	82	81	10-148	1	30				
2,4-Dinitrophenol	69	61	20-143	13	30				
2,4-Dinitrotoluene	100	98	57-114	2	30				
2,6-Dinitrotoluene	99	104	69-123	5	30				
1,2-Diphenylhydrazine	102	105	71-129	3	30				
bis(2-Ethylhexyl)phthalate	107	103	63-122	5	30				
Hexachlorobenzene	96	98	61-111	2	30				
Hexachlorobutadiene	99	99	62-120	0	30				
Hexachlorocyclopentadiene	97	108	10-153	11	30				
Hexachloroethane	89	94	57-109	6	30				

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Quality Control Summary

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Reported: 01/19/11 at 11:07 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	90	90	51-118	0	30				
2-Methylphenol	81	86	47-142	6	30				
4-Methylphenol	78	84	55-126	7	30				
2-Nitroaniline	106	103	67-125	3	30				
3-Nitroaniline	98	98	59-122	0	30				
4-Nitroaniline	73	77	52-112	5	30				
Nitrobenzene	99	99	51-114	0	30				
2-Nitrophenol	93	94	74-115	0	30				
4-Nitrophenol	102	101	39-133	1	30				
N-Nitroso-di-n-propylamine	78	82	60-116	4	30				
N-Nitrosodiphenylamine	94	99	86-145	5	30				
Pentachlorophenol	76	83	17-149	9	30				
Phenol	86	89	58-126	3	30				
1,2,4-Trichlorobenzene	95	94	72-115	1	30				
2,4,5-Trichlorophenol	97	99	34-139	2	30				
2,4,6-Trichlorophenol	99	98	49-140	1	30				
Batch number: 10354SLI026	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941								
Acenaphthene	75	77	63-105	3	30				
Acenaphthylene	78	80	55-126	2	30				
Anthracene	75	78	46-136	4	30				
Benzo(a)anthracene	78	80	39-144	3	30				
Benzo(a)pyrene	72	77	34-156	8	30				
Benzo(b)fluoranthene	84	85	43-155	2	30				
Benzo(g,h,i)perylene	75	79	33-141	5	30				
Benzo(k)fluoranthene	70	74	42-144	5	30				
Butylbenzylphthalate	84	90	73-140	7	30				
Di-n-butylphthalate	84	87	78-160	3	30				
Chrysene	74	77	29-156	4	30				
Dibenz(a,h)anthracene	74	80	41-130	7	30				
Diethylphthalate	70*	72*	87-131	3	30				
Dimethylphthalate	81	85	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	120	95	39-167	24	30				
Fluoranthene	77	80	26-166	4	30				
Fluorene	79	81	45-121	3	30				
Indeno(1,2,3-cd)pyrene	74	79	21-143	5	30				
1-Methylnaphthalene	76	78	72-123	3	30				
2-Methylnaphthalene	70	71	28-121	2	30				
Naphthalene	73	75	61-102	2	30				
N-Nitrosodimethylamine	84	83	48-113	0	30				
Di-n-octylphthalate	80	82	40-192	2	30				
Phenanthrene	75	77	12-165	3	30				
Pyrene	73	77	15-153	5	30				
Batch number: 10361SLB026	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: 6164941								
N-Nitrosodimethylamine	94	88	70-130	5	30				
Batch number: 10349A34B	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P163871								
9a TPH by EPA 8015B Gas C5-C12	65	66	39-118	0	30				
Batch number: 103550019A	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P163871								
4-Amino-2,6-Dinitrotoluene	106	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	105	80-137	0	50				

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Quality Control Summary

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Reported: 01/19/11 at 11:07 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dinitrobenzene	103	103	38-166	1	50				
2,4-Dinitrotoluene	100	101	80-131	0	50				
2,6-Dinitrotoluene	107	107	80-127	0	50				
HMX	81	83	63-128	2	50				
Nitrobenzene	100	100	80-125	0	50				
Nitroglycerin	94	93	80-120	0	50				
2-Nitrotoluene	106	105	80-122	1	50				
3-Nitrotoluene	107	106	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	108	107	80-121	0	50				
RDX	97	99	75-129	2	50				
Tetryl	131	135	55-174	3	50				
1,3,5-Trinitrobenzene	118	119	82-126	0	50				
2,4,6-Trinitrotoluene	106	107	82-130	1	50				
Batch number: 103510021A	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P163871								
17a Formaldehyde by 8315A	97	99	80-120	2	50				
Batch number: 103570025A	Sample number(s): 6164948-6164956 UNSPK: P166190								
2,4-D	104	75	28-161	32	35				
Dalapon	87*	82	12-86	6	50				
2,4-DB	184*	119	20-170	43	50				
Dicamba	178*	129*	33-120	32	50				
Dinoseb	15	11	1-44	27	35				
2,4-DP (Dichlorprop)	75	107	55-141	35	50				
MCPA	298*	96	31-184	103*	50				
MCPP (Mecoprop)	126	102	16-174	21	50				
2,4,5-T	71	61	25-132	15	35				
2,4,5-TP	116	83	10-183	33	35				
Batch number: 103500020A	Sample number(s): 6164948 UNSPK: 6164948								
6a Perchlorate EPA 6850	100	100	80-120	0	20				
Batch number: 103510029A	Sample number(s): 6164948-6164956 UNSPK: P162943								
Aldrin	77	87	16-126	12	50				
Alpha BHC	100	109	10-129	9	50				
Beta BHC	88	97	14-147	10	50				
Gamma BHC - Lindane	100	109	10-140	9	50				
p,p-DDD	80	88	16-163	10	50				
p,p-DDE	90	102	18-161	12	50				
p,p-DDT	103	116	10-176	12	50				
Delta BHC	94	106	23-140	13	50				
Dieldrin	76	84	19-154	10	50				
Endosulfan I	76	82	16-137	8	50				
Endosulfan II	70	76	28-154	9	50				
Endosulfan Sulfate	86	94	21-160	9	50				
Endrin	88	99	11-149	11	50				
Endrin Aldehyde	77	87	10-148	12	35				
Endrin Ketone	82	85	22-165	4	50				
Heptachlor	118	136*	13-126	14	50				
Heptachlor Epoxide	81	90	13-157	11	50				
Methoxychlor	102	114	32-147	11	50				

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Quality Control Summary

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Reported: 01/19/11 at 11:07 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103540019A	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: P162864								
PCB-1016	101	104	29-146	3	50				
PCB-1260	105	111	39-149	5	50				
Batch number: 103570006A	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P162942								
EFH (C12-C14)	88	86	49-123	3	20				
EFH (C15-C20)	172*	137*	49-123	23*	20				
EFH (C21-C30)	799*	504*	49-123	29*	20				
EFH (C30 - C40)	1486 (2)	1361 (2)	49-123	6	20				
EFH (C8-C11)	61	62	49-123	2	20				
Batch number: 103510010A	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: 6164941								
Diethylene glycol	60	85	59-109	36*	20				
Ethylene glycol	85	88	63-107	3	20				
Propylene glycol	72	73	63-107	1	20				
Batch number: 103540002A	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P163871								
Ethanol	82	84	24-143	3	20				
Isopropanol	84	85	75-125	1	20				
Methanol	75	86	45-136	14	20				
Batch number: 103511026004A	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941								
Antimony	100	84	75-125	12	20	0.150 J	0.133 J	12 (1)	20
Arsenic	292*	228*	75-125	11	20	5.25	7.00	29*	20
Beryllium	197*	149*	75-125	18	20	0.498	0.548	9	20
Cadmium	169*	171*	75-125	3	20	0.0836 J	0.0985	16 (1)	20
Chromium	211*	194*	75-125	3	20	13.2	17.5	28*	20
Cobalt	149*	143*	75-125	1	20	5.28	6.39	19	20
Copper	159*	157*	75-125	1	20	5.42	7.10	27*	20
Lead	257*	229*	75-125	5	20	4.41	5.87	28*	20
Nickel	172*	164*	75-125	1	20	7.94	10.3	26*	20
Silver	173*	163*	75-125	3	20	0.0139 J	0.0186 J	30* (1)	20
Thallium	224*	203*	75-125	5	20	0.333	0.408	20 (1)	20
Vanadium	264*	249*	75-125	1	20	27.7	36.5	27*	20
Zinc	365 (2)	304 (2)	75-125	6	20	55.7	75.6	30*	20
Batch number: 103511026004B	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941								
Selenium	93	88	75-125	2	20	0.0948 J	0.120 J	24* (1)	20
Batch number: 103511026004C	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941								
Molybdenum	175*	165*	75-125	3	20	0.441	0.608	32* (1)	20
Batch number: 103511026004D	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941								
Barium	472 (2)	400 (2)	75-125	6	20	59.7	83.3	33*	20
Batch number: 103515708009	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941								
Aluminum	1340 (2)	771 (2)	75-125	8	20	11,700	11,000	6	20
Boron	97	97	84-115	0	20	2.79 J	1.89 J	39* (1)	20
Calcium	190 (2)	116 (2)	75-125	8	20	3,000	3,200	6	20
Iron	670 (2)	-620 (2)	75-125	7	20	18,600	18,000	3	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Lithium	104	106	82-114	2	20	21.4		20.7		3	20
Magnesium	358 (2)	250 (2)	75-125	5	20	3,720		3,800		2	20
Manganese	89 (2)	55 (2)	75-125	5	20	295		261		12	20
Phosphorus	95	66*	75-125	7	20	310		298		4	20
Potassium	139*	121	75-125	5	20	2,360		2,300		3	20
Sodium	103	104	75-125	1	20	89.4	J	89.1	J	0 (1)	20
Strontium	100	99	75-115	1	20	11.5		12.0		4	20
Tin	95	94	80-110	1	20	2.59	J	2.31	J	12 (1)	20
Titanium	221 (2)	131 (2)	75-125	7	20	1,140		1,070		7	20
Zirconium	102	105	75-125	3	20	0.832	U	1.01	J	200* (1)	20
Batch number: 103515711005	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941										
Mercury	98	99	65-135	2	20	0.0029	U	0.0028	U	0 (1)	20
Batch number: 10349113001A	Sample number(s): 6164944 UNSPK: P164525 BKG: P164525										
3b Cr VI by EPA 7199	100		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 10361102202A	Sample number(s): 6164941-6164942,6164945 UNSPK: P163885 BKG: P163885										
21a Cyanide by 9012B	100		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 10361102202B	Sample number(s): 6164946,6164957 UNSPK: 6164946 BKG: 6164946										
21a Cyanide by 9012B	102		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11001243201A	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941										
3a Cr VI by EPA 7199	97		75-125			0.30	J	0.41	J	30* (1)	20
Batch number: 11005005201A	Sample number(s): 6164941-6164942,6164945-6164952 UNSPK: 6164941 BKG: 6164941										
7a Perchlorate EPA 314.0	105		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11005005201B	Sample number(s): 6164953-6164957 UNSPK: 6164953 BKG: 6164953										
7a Perchlorate EPA 314.0	116		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11007007201A	Sample number(s): 6164941-6164942,6164945-6164952 UNSPK: 6164941 BKG: 6164941										
11a Anions by 300.0 - Fluoride	118		80-120			0.80	U	1.2		200* (1)	20
11a Anions by 300.0 - Nitrate	114		80-120			1.7		1.7		0 (1)	20
Batch number: 11007007201B	Sample number(s): 6164953-6164957 UNSPK: 6164953 BKG: 6164953										
11a Anions by 300.0 - Fluoride	65*		80-120			1.1		0.89	J	24* (1)	20
11a Anions by 300.0 - Nitrate	92		80-120			1.4	J	0.80	U	200* (1)	20
Batch number: 10350039402B	Sample number(s): 6164941-6164942,6164945-6164946 BKG: 6164946										
22a pH by 9045C						8.25		8.21		0	1
Batch number: 10350039403A	Sample number(s): 6164947-6164955 BKG: 6164947										
22a pH by 9045C						7.08		7.11		0	1
Batch number: 10350039403B	Sample number(s): 6164956-6164957 BKG: 6164957										
22a pH by 9045C						7.41		7.43		0	1
Batch number: 10350182102B	Sample number(s): 6164941-6164942,6164945-6164946 BKG: 6164946										
Oxidation Reduction Potential						426		428		1	6
Batch number: 10350182103A	Sample number(s): 6164947-6164955 BKG: 6164947										

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Reported: 01/19/11 at 11:07 AM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Oxidation Reduction Potential						381	381	0	6
Batch number: 10350182103B	Sample number(s): 6164956-6164957 BKG: 6164957								
Oxidation Reduction Potential						423	420	1	6
Batch number: 10350162401A	Sample number(s): 6164948-6164956 BKG: P154843								
28a Moisture Content by 160.3						12.4	13.1	6	20
Batch number: 10364162402A	Sample number(s): 6164942,6164945-6164947 BKG: P167525								
28a Moisture Content by 160.3						11.9	12.1	1	20
Batch number: 10364162402B	Sample number(s): 6164941 BKG: P163871								
28a Moisture Content by 160.3						11.4	11.7	3	20
Batch number: 11005162401A	Sample number(s): 6164957 BKG: P168986								
28a Moisture Content by 160.3						10.0	9.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103501AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6164941	103	99	97	92
6164942	105	102	98	90
6164945	105	101	98	91
6164946	104	99	98	91
6164947	104	100	97	93
6164957	104	99	97	92
Blank	104	101	97	93
LCS	100	103	99	100
LCSD	99	102	100	100
MS	100	97	102	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103502AA

	Toluene-d8
6164943	101
6164944	101
Blank	99
LCS	100
MS	101
MSD	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Surrogate Quality Control

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103511AA

	Toluene-d8
6164941	98
6164942	99
6164945	98
6164946	99
6164947	75
6164957	99
Blank	100
LCS	99
LCSD	100
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6164944	100	97	102	100
Blank	100	98	101	99
LCS	100	101	104	103
LCSD	97	97	103	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10350WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164944	46	31	81	79	79	78
Blank	53	36	81	84	81	83
LCS	59	40	86	85	86	83
LCSD	71	48	103	102	105	99
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10350WAH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164944	96	70	75
Blank	78	71	76
LCS	80	72	71
LCSD	69	70	72
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10354SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164941	84	85	92	82	92	85
6164942	81	83	92	79	89	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Surrogate Quality Control

6164945	80	82	89	79	91	83
6164946	82	85	90	80	93	84
6164947	82	85	90	78	92	85
6164948	90	89	101	85	96	86
6164949	89	90	98	83	95	86
6164950	89	91	101	83	94	92
6164951	80	80	96	80	92	83
6164952	84	86	101	81	94	87
6164953	85	83	89	76	86	94
6164954	97	96	97	84	98	99
6164955	94	92	104	82	90	97
6164956	97	94	103	82	93	105
6164957	92	89	103	79	89	96
Blank	91	93	97	82	96	86
LCS	88	87	107	93	95	88
MS	82	84	98	90	92	84
MSD	85	88	99	90	94	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10354SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164941	69	64	75
6164942	73	67	79
6164945	76	72	79
6164946	63	68	76
6164947	75	73	77
6164948	79	70	74
6164949	81	80	77
6164950	84	75	68
6164951	75	70	91
6164952	75	71	74
6164953	75	71	72
6164954	75	69	70
6164955	81	73	72
6164956	80	71	71
6164957	78	71	75
Blank	76	72	78
LCS	74	67	88
MS	80	76	78
MSD	79	73	77
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10361SLB026

	N-Nitrosodimethylamine-d6
6164941	101
6164942	107
6164945	141
6164946	109
6164957	103
Blank	106

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Surrogate Quality Control

LCS	108
MS	101
MSD	113
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10349A34B

	Trifluorotoluene-F
6164941	91
6164942	83
6164945	88
6164946	92
6164957	80
Blank	96
LCS	102
LCSD	99
MS	80
MSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10350A94A

	Trifluorotoluene-F
6164943	85
6164944	89
Blank	85
LCS	96
LCSD	99
Limits:	63-135

Analysis Name: 12b Pesticides by 8081A
Batch number: 103500016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6164944	101	84
Blank	103	97
LCS	99	86
LCSD	104	91
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103500017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6164944	119	120
Blank	123	119
LCS	117	114
LCSD	120	116
Limits:	30-150	45-120

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Surrogate Quality Control

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103500036A

	2,4-Dichlorophenylacetic acid
6164944	85
Blank	90
LCS	107
LCSD	112
Limits:	35-144

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103510021A

	Butyraldehyde
6164941	99
6164942	109
6164945	110
6164946	97
6164957	99
Blank	100
LCS	105
MS	105
MSD	104
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 103510029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6164948	89	19*
6164949	79	34
6164950	79	0*
6164951	89	56
6164952	70	69
6164953	75	46
6164954	79	59
6164955	73	68
6164956	86	112
Blank	85	105
LCS	81	107
MS	81	80
MSD	89	79
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103540019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6164941	111	121*
6164942	98	120
6164945	101	118
6164946	69	91
6164947	97	120

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Surrogate Quality Control

6164948	118	142*
6164949	116	132*
6164950	50*	84
6164951	120	127*
6164952	128	151*
6164953	88	129*
6164954	81	118
6164955	122	155*
6164956	195*	185*
6164957	135	151*
Blank	99	105
LCS	110	115
LCSD	102	106
MS	114	104
MSD	116	107
Limits:	53-139	45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103550019A

	2-Nitro-m-xylene
6164941	108
6164942	110
6164945	106
6164946	105
6164957	102
Blank	112
LCS	105
LCSD	102
MS	108
MSD	105
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103570025A

	2,4-Dichlorophenylacetic acid
6164948	128
6164949	107
6164950	231*
6164951	178*
6164952	157*
6164953	193*
6164954	162*
6164955	100
6164956	377*
Blank	85
LCS	97
MS	130
MSD	127
Limits:	36-156

Analysis Name: 27a Glycols by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Surrogate Quality Control

Batch number: 103510010A

	Tetramethylene glycol
6164941	70
6164942	79
6164945	70
6164946	81
6164957	88
Blank	95
LCS	92
MS	117
MSD	98
Limits:	50-119

Analysis Name: 25a Alcohols by 8015B
Batch number: 103540002A

	Acetone
6164941	94
6164942	85
6164945	84
6164946	87
6164957	91
Blank	93
LCS	90
MS	82
MSD	85
Limits:	42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550027A

	n-Triacontane-d62
6164941	97
6164942	94
6164945	90
6164946	93
6164957	97
Blank	99
LCS	96
LCSD	97
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103570006A

	Chlorobenzene	Orthoterphenyl
6164941	79	88
6164942	78	85
6164945	70	82
6164946	70	82
6164957	73	86
Blank	87	94
LCS	85	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225546
Reported: 01/19/11 at 11:07 AM

Surrogate Quality Control

MS	91	96
MSD	89	97
Limits:	37-125	47-145

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(2) The unspiked result was more than four times the spike added.

13013 1225546 6164941-57

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Azobenz EPA 8321B	Other Instructions and Notes
SL-002-SA5C-SB-4.0-5.0	12.14.10	0942	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-002-SA5C-SB-9.0-10.0	12.14.10	0950	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
TB-121410	12.14.10	0800	water	HCl	2-40 mL VOA vials	X	X		X																				trip blank
EB02-SA5B-121410	12.14.10	1230	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB02-SA5B-121410	12.14.10	1230	water	none	1-500 ml poly							X	X			X													rinsate
EB02-SA5B-121410	12.14.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB02-SA5B-121410	12.14.10	1230	water	HCl	6-40 mL amber VOA vials	X	X		X																				rinsate
SL-002-SA5C-SB-9.5	12.14.10	0948	soil	none	5 Encore Samplers	X	X		X																				
SL-002-SA5C-SB-4.5	12.14.10	0938	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-4.5	12.14.10	1104	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.5	12.14.10	1115	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.0-10.0	12.14.10	1118	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-004-SA5C-SB-4.0-5.0	12.14.10	1111	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-140-SA5C-SB-3.0-4.0	12.14.10	1428	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-140-SA5C-SB-3.5	12.14.10	1425	soil	none	5 Encore Samplers	X	X																						
DUP05-SA5B-QC-121410	12.14.10	0850	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										DUP
SL-120-SA5B-SS-0.0-0.5MS	12.14.10	0847	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										MS/MSD
SL-108-SA5B-SS-0.0-0.5	12.14.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-119-SA5B-SS-0.0-0.5	12.14.10	0830	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-240-SA5B-SS-0.0-0.5	12.14.10	0933	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-109-SA5B-SS-0.0-0.5	12.14.10	0909	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-122-SA5B-SS-0.0-0.5	12.14.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-121-SA5B-SS-0.0-0.5	12.14.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-054-SA5B-SS-0.0-0.5	12.14.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-105-SA5B-SS-0.0-0.5	12.14.10	0835	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-098-SA5B-SS-0.0-0.5	12.14.10	1043	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-142-SA5B-SS-0.0-0.5	12.14.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-143-SA5B-SS-0.0-0.5	12.14.10	1115	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-123-SA5B-SS-0.0-0.5	12.14.10	1040	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-124-SA5B-SS-0.0-0.5	12.14.10	1100	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-309-SA5B-SS-0.0-0.5	12.14.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-311-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-310-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-312-SA5B-SS-0.0-0.5	12.14.10	1427	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-025-SIV-SD-0.0-0.5	12.14.10	1244	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-024-SIV-SD-0.0-0.5	12.14.10	1116	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-023-SIV-SD-0.0-0.5	12.14.10	0919	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-022-SIV-SD-0.0-0.5	12.14.10	1008	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-125-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-126-SA5B-SS-0.0-0.5	12.14.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-129-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-128-SA5B-SS-0.0-0.5	12.14.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-027-SIV-SD-0.0-0.5	12.14.10	1559	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-026-SIV-SD-0.0-0.5	12.14.10	1522	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-060-SA5C-SB-10.0-11.0	12.14.10	1618	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-060-SA5C-SB-10.5	12.14.10	1614	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		
	12.14.10 1700		12/15/10 946		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.			
		00732992			
		Tracking Number 869514317156			No. of coolers = 5

TO: Nicole Maljovec

FROM: Ann Marie Crites

DATE: 12/15/10

RE: Missing Encore samples

Nicole,

Be advised that two Encore samples, SL-004-SA5C-SB-4.5 and SL-004-SA5C-SB-9.5, were inadvertently missed in the shipment of 12/14/10. These samples are included in today's shipment, under COC.

If you have an questions regarding these samples or this shipment, feel free to contact me.

Sincerely,
Ann Marie Crites, Sample Manager
CDM
Santa Susana Field Laboratory
406-422-8139

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010B/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-002-SA5C-SB-4.0-5.0	12.14.10	0942	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-002-SA5C-SB-9.0-10.0	12.14.10	0950	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
TB-121410	12.14.10	0800	water	HCl	2-40 mL VOA vials	X	X		X																				trip blank
EB02-SA5B-121410	12.14.10	1230	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB02-SA5B-121410	12.14.10	1230	water	none	1-500 ml poly							X	X			X													rinsate
EB02-SA5B-121410	12.14.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB02-SA5B-121410	12.14.10	1230	water	HCl	6-40 mL amber VOA vials	X	X		X																				rinsate
SL-002-SA5C-SB-9.5	12.14.10	0948	soil	none	5 Encore Samplers	X	X		X																				
SL-002-SA5C-SB-4.5	12.14.10	0938	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-4.5	12.14.10	1104	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.5	12.14.10	1115	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.0-10.0	12.14.10	1118	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-004-SA5C-SB-4.0-5.0	12.14.10	1111	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-140-SA5C-SB-3.0-4.0	12.14.10	1428	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-140-SA5C-SB-3.5	12.14.10	1425	soil	none	5 Encore Samplers	X	X																						
DUP05-SA5B-QC-121410	12.14.10	0850	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										DUP
SL-120-SA5B-SS-0.0-0.5MS	12.14.10	0847	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										MS/MSD
SL-108-SA5B-SS-0.0-0.5	12.14.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-119-SA5B-SS-0.0-0.5	12.14.10	0830	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-240-SA5B-SS-0.0-0.5	12.14.10	0933	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-109-SA5B-SS-0.0-0.5	12.14.10	0909	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-122-SA5B-SS-0.0-0.5	12.14.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-121-SA5B-SS-0.0-0.5	12.14.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-054-SA5B-SS-0.0-0.5	12.14.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-105-SA5B-SS-0.0-0.5	12.14.10	0835	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-098-SA5B-SS-0.0-0.5	12.14.10	1043	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-142-SA5B-SS-0.0-0.5	12.14.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-143-SA5B-SS-0.0-0.5	12.14.10	1115	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-123-SA5B-SS-0.0-0.5	12.14.10	1040	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-124-SA5B-SS-0.0-0.5	12.14.10	1100	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-309-SA5B-SS-0.0-0.5	12.14.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-311-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-310-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-312-SA5B-SS-0.0-0.5	12.14.10	1427	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-025-SIV-SD-0.0-0.5	12.14.10	1244	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-024-SIV-SD-0.0-0.5	12.14.10	1116	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-023-SIV-SD-0.0-0.5	12.14.10	0919	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-022-SIV-SD-0.0-0.5	12.14.10	1008	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-125-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-126-SA5B-SS-0.0-0.5	12.14.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-129-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-128-SA5B-SS-0.0-0.5	12.14.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-027-SIV-SD-0.0-0.5	12.14.10	1559	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-026-SIV-SD-0.0-0.5	12.14.10	1522	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-060-SA5C-SB-10.0-11.0	12.14.10	1618	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-060-SA5C-SB-10.5	12.14.10	1614	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	12.14.10 1700		12/14/10 1600	Lancaster Laboratories, Inc.
Received by: *(Signature)*	**Date/Time**	**Airbill No.**		
		00732992 Tracking Number 869514317156		No. of coolers = 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/15/2010
Group Number: 1225550
SDG: DX023
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA5C-SB-4.0-5.0 Soil	6164970
SL-002-SA5C-SB-9.0-10.0 Soil	6164971
EB02-SA5B-121410 Water	6164972
SL-004-SA5C-SB-9.0-10.0 Soil	6164973
SL-004-SA5C-SB-4.0-5.0 Soil	6164974
SL-140-SA5C-SB-3.0-4.0 Soil	6164975
SED-024-SIV-SD-0.0-0.5 Sediment	6164976
SED-023-SIV-SD-0.0-0.5 Sediment	6164977
SED-022-SIV-SD-0.0-0.5 Sediment	6164978
SL-125-SA5B-SS-0.0-0.5 Soil	6164979
SL-126-SA5B-SS-0.0-0.5 Soil	6164980
SL-129-SA5B-SS-0.0-0.5 Soil	6164981
SL-128-SA5B-SS-0.0-0.5 Soil	6164982
SED-027-SIV-SD-0.0-0.5 Sediment	6164983
SED-026-SIV-SD-0.0-0.5 Sediment	6164984
SL-060-SA5C-SB-10.0-11.0 Soil	6164985

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164970
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2301 SDG#: DX023-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164970
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2301 SDG#: DX023-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0226 JBQ	0.0184	1.07	1
11031	12378-PeCDD	40321-76-4	0.0805 JBQ	0.0271	5.33	1
11031	123478-HxCDD	39227-28-6	0.0232 U	0.0232	5.33	1
11031	123678-HxCDD	57653-85-7	0.124 JB	0.0242	5.33	1
11031	123789-HxCDD	19408-74-3	0.141 JB	0.0244	5.33	1
11031	1234678-HpCDD	35822-46-9	0.233 JBQ	0.0322	5.33	1
11031	OCDD	3268-87-9	0.786 JB	0.0433	10.7	1
11031	2378-TCDF	51207-31-9	0.0199 JBQ	0.0167	1.07	1
11031	12378-PeCDF	57117-41-6	0.0462 JBQ	0.0107	5.33	1
11031	23478-PeCDF	57117-31-4	0.0561 JB	0.0106	5.33	1
11031	123478-HxCDF	70648-26-9	0.0426 JB	0.0155	5.33	1
11031	123678-HxCDF	57117-44-9	0.0577 JBQ	0.0143	5.33	1
11031	123789-HxCDF	72918-21-9	0.0878 JBQ	0.0186	5.33	1
11031	234678-HxCDF	60851-34-5	0.0787 JB	0.0148	5.33	1
11031	1234678-HpCDF	67562-39-4	0.172 JB	0.0154	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0860 JBQ	0.0220	5.33	1
11031	OCDF	39001-02-0	0.207 JB	0.0350	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-002-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164970
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2301 SDG#: DX023-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164970
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2301 SDG#: DX023-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/15/2011 17:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164971
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2302 SDG#: DX023-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164971
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2302 SDG#: DX023-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0168	U	0.0168	1.20	1
11031	12378-PeCDD	40321-76-4	0.0240	U	0.0240	6.00	1
11031	123478-HxCDD	39227-28-6	0.0267	JBQ	0.0196	6.00	1
11031	123678-HxCDD	57653-85-7	0.0815	JB	0.0198	6.00	1
11031	123789-HxCDD	19408-74-3	0.139	JB	0.0190	6.00	1
11031	1234678-HpCDD	35822-46-9	0.277	JBQ	0.0257	6.00	1
11031	OCDD	3268-87-9	1.30	JB	0.0373	12.0	1
11031	2378-TCDF	51207-31-9	0.0192	JBQ	0.0154	1.20	1
11031	12378-PeCDF	57117-41-6	0.0438	JBQ	0.00852	6.00	1
11031	23478-PeCDF	57117-31-4	0.0560	JB	0.00912	6.00	1
11031	123478-HxCDF	70648-26-9	0.0487	JB	0.0150	6.00	1
11031	123678-HxCDF	57117-44-9	0.0378	JB	0.0122	6.00	1
11031	123789-HxCDF	72918-21-9	0.160	JB	0.0168	6.00	1
11031	234678-HxCDF	60851-34-5	0.0442	JB	0.0139	6.00	1
11031	1234678-HpCDF	67562-39-4	0.119	JB	0.00996	6.00	1
11031	1234789-HpCDF	55673-89-7	0.0608	JB	0.0174	6.00	1
11031	OCDF	39001-02-0	0.169	JBQ	0.0365	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164971
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2302 SDG#: DX023-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164971
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2302 SDG#: DX023-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/15/2011 18:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **EB02-SA5B-121410 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164972
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2303 SDG#: DX023-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.919	U	0.919	1.96	1
10915	12378-PeCDD	40321-76-4	0.535	U	0.535	9.82	1
10915	123478-HxCDD	39227-28-6	0.317	JBQ	0.224	9.82	1
10915	123678-HxCDD	57653-85-7	0.228	U	0.228	9.82	1
10915	123789-HxCDD	19408-74-3	0.238	U	0.238	9.82	1
10915	1234678-HpCDD	35822-46-9	1.24	JBQ	0.302	9.82	1
10915	OCDD	3268-87-9	3.54	JBQ	0.345	19.6	1
10915	2378-TCDF	51207-31-9	0.256	U	0.256	1.96	1
10915	12378-PeCDF	57117-41-6	0.387	JBQ	0.193	9.82	1
10915	23478-PeCDF	57117-31-4	0.707	JBQ	0.164	9.82	1
10915	123478-HxCDF	70648-26-9	0.429	JBQ	0.171	9.82	1
10915	123678-HxCDF	57117-44-9	0.244	JBQ	0.169	9.82	1
10915	123789-HxCDF	72918-21-9	0.633	JBQ	0.175	9.82	1
10915	234678-HxCDF	60851-34-5	0.432	JBQ	0.163	9.82	1
10915	1234678-HpCDF	67562-39-4	1.40	JBQ	0.118	9.82	1
10915	1234789-HpCDF	55673-89-7	0.257	JBQ	0.141	9.82	1
10915	OCDF	39001-02-0	1.35	JBQ	0.309	19.6	1

The recoveries of several labeled compounds were outside QC limits in this sample and the blank and OPR associated with this sample. The sample was re-extracted outside the project specified holding time with all labeled compound recoveries within QC specification. Comparable native compound results were observed between the two extractions.

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	11	25 - 164
13C12-12378-PeCDD	28	25 - 181
13C12-123478-HxCDD	36	32 - 141
13C12-123678-HxCDD	34	28 - 130
13C12-123789-HxCDD	33	28 - 130
13C12-1234678-HpCDD	39	23 - 140
13C12-OCDD	38	17 - 157
13C12-2378-TCDF	38	24 - 169
13C12-12378-PeCDF	39	24 - 185
13C12-23478-PeCDF	43	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	38	28 - 136
13C12-123789-HxCDF	41	29 - 147
13C12-1234678-HpCDF	39	28 - 143
13C12-1234789-HpCDF	38	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	22	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB02-SA5B-121410 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164972
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2303 SDG#: DX023-03EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362001	12/30/2010 18:22	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10362001	12/28/2010 06:30	Ginelle L Haines	1

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Analysis Report

Sample Description: **SL-004-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164973
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2304 SDG#: DX023-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164973
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2304 SDG#: DX023-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0213 U	0.0213	1.20	1
11031	12378-PeCDD	40321-76-4	0.0388 JBQ	0.0296	6.01	1
11031	123478-HxCDD	39227-28-6	0.0292 JBQ	0.0202	6.01	1
11031	123678-HxCDD	57653-85-7	0.105 JBQ	0.0206	6.01	1
11031	123789-HxCDD	19408-74-3	0.179 JBQ	0.0210	6.01	1
11031	1234678-HpCDD	35822-46-9	0.407 JB	0.0300	6.01	1
11031	OCDD	3268-87-9	2.29 JB	0.0376	12.0	1
11031	2378-TCDF	51207-31-9	0.0294 JB	0.0213	1.20	1
11031	12378-PeCDF	57117-41-6	0.0580 JBQ	0.0105	6.01	1
11031	23478-PeCDF	57117-31-4	0.0956 JBQ	0.0114	6.01	1
11031	123478-HxCDF	70648-26-9	0.0588 JBQ	0.0160	6.01	1
11031	123678-HxCDF	57117-44-9	0.0610 JBQ	0.0133	6.01	1
11031	123789-HxCDF	72918-21-9	0.176 JB	0.0212	6.01	1
11031	234678-HxCDF	60851-34-5	0.107 JBQ	0.0154	6.01	1
11031	1234678-HpCDF	67562-39-4	0.234 JBQ	0.0117	6.01	1
11031	1234789-HpCDF	55673-89-7	0.0830 JBQ	0.0218	6.01	1
11031	OCDF	39001-02-0	0.329 JB	0.0425	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-004-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164973
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2304 SDG#: DX023-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164973
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2304 SDG#: DX023-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/15/2011 19:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164974
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2305 SDG#: DX023-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164974
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2305 SDG#: DX023-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0194 JBQ	0.0172	1.19	1
11031	12378-PeCDD	40321-76-4	0.0257 U	0.0257	5.97	1
11031	123478-HxCDD	39227-28-6	0.0166 JBQ	0.0136	5.97	1
11031	123678-HxCDD	57653-85-7	0.0419 JBQ	0.0140	5.97	1
11031	123789-HxCDD	19408-74-3	0.0354 JBQ	0.0136	5.97	1
11031	1234678-HpCDD	35822-46-9	0.176 JBQ	0.0248	5.97	1
11031	OCDD	3268-87-9	0.629 JBQ	0.0368	11.9	1
11031	2378-TCDF	51207-31-9	0.0142 U	0.0142	1.19	1
11031	12378-PeCDF	57117-41-6	0.00859 U	0.00859	5.97	1
11031	23478-PeCDF	57117-31-4	0.0602 JB	0.00895	5.97	1
11031	123478-HxCDF	70648-26-9	0.0414 JB	0.0113	5.97	1
11031	123678-HxCDF	57117-44-9	0.0260 JBQ	0.00943	5.97	1
11031	123789-HxCDF	72918-21-9	0.0640 JBQ	0.0138	5.97	1
11031	234678-HxCDF	60851-34-5	0.0394 JBQ	0.0107	5.97	1
11031	1234678-HpCDF	67562-39-4	0.104 JBQ	0.00979	5.97	1
11031	1234789-HpCDF	55673-89-7	0.0625 JB	0.0169	5.97	1
11031	OCDF	39001-02-0	0.148 JBQ	0.0298	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164974
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2305 SDG#: DX023-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164974
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2305 SDG#: DX023-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/15/2011 19:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA5C-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164975
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2306 SDG#: DX023-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-140-SA5C-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164975
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2306 SDG#: DX023-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0257	U	0.0257	1.11	1
11031	12378-PeCDD	40321-76-4	0.0347	U	0.0347	5.56	1
11031	123478-HxCDD	39227-28-6	0.0187	U	0.0187	5.56	1
11031	123678-HxCDD	57653-85-7	0.0195	U	0.0195	5.56	1
11031	123789-HxCDD	19408-74-3	0.0405	JBQ	0.0201	5.56	1
11031	1234678-HpCDD	35822-46-9	0.117	JB	0.0288	5.56	1
11031	OCDD	3268-87-9	0.507	JBQ	0.0492	11.1	1
11031	2378-TCDF	51207-31-9	0.0185	U	0.0185	1.11	1
11031	12378-PeCDF	57117-41-6	0.0234	JBQ	0.0120	5.56	1
11031	23478-PeCDF	57117-31-4	0.0581	JBQ	0.0125	5.56	1
11031	123478-HxCDF	70648-26-9	0.0325	JBQ	0.0155	5.56	1
11031	123678-HxCDF	57117-44-9	0.0200	JBQ	0.0131	5.56	1
11031	123789-HxCDF	72918-21-9	0.0537	JB	0.0210	5.56	1
11031	234678-HxCDF	60851-34-5	0.0404	JBQ	0.0147	5.56	1
11031	1234678-HpCDF	67562-39-4	0.108	JB	0.0140	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0727	JB	0.0253	5.56	1
11031	OCDF	39001-02-0	0.189	JBQ	0.0436	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	64	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA5C-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164975
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2306 SDG#: DX023-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA5C-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164975
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2306 SDG#: DX023-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/15/2011 20:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-024-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164976
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2307 SDG#: DX023-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-024-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164976
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2307 SDG#: DX023-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0556	JB	0.0249	1.15	1
11031	12378-PeCDD	40321-76-4	0.333	JBQ	0.0529	5.73	1
11031	123478-HxCDD	39227-28-6	0.159	JB	0.0253	5.73	1
11031	123678-HxCDD	57653-85-7	0.441	JB	0.0267	5.73	1
11031	123789-HxCDD	19408-74-3	0.430	JB	0.0267	5.73	1
11031	1234678-HpCDD	35822-46-9	5.00	JB	0.0328	5.73	1
11031	OCDD	3268-87-9	32.0	B	0.0354	11.5	1
11031	2378-TCDF	51207-31-9	0.324	JB	0.0493	1.15	1
11031	12378-PeCDF	57117-41-6	0.275	JB	0.0205	5.73	1
11031	23478-PeCDF	57117-31-4	0.583	JB	0.0243	5.73	1
11031	123478-HxCDF	70648-26-9	0.219	JB	0.0170	5.73	1
11031	123678-HxCDF	57117-44-9	0.232	JB	0.0143	5.73	1
11031	123789-HxCDF	72918-21-9	0.0859	JBQ	0.0208	5.73	1
11031	234678-HxCDF	60851-34-5	0.253	JB	0.0158	5.73	1
11031	1234678-HpCDF	67562-39-4	1.22	JB	0.0167	5.73	1
11031	1234789-HpCDF	55673-89-7	0.119	JB	0.0294	5.73	1
11031	OCDF	39001-02-0	2.24	JB	0.0292	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164976
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2307 SDG#: DX023-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-024-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164976
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2307 SDG#: DX023-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/15/2011 21:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-023-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164977
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2308 SDG#: DX023-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-023-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164977
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2308 SDG#: DX023-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.133	JBQ	0.0315	1.12	1
11031	12378-PeCDD	40321-76-4	0.310	JB	0.0496	5.61	1
11031	123478-HxCDD	39227-28-6	0.223	JB	0.0243	5.61	1
11031	123678-HxCDD	57653-85-7	0.421	JB	0.0252	5.61	1
11031	123789-HxCDD	19408-74-3	0.391	JB	0.0233	5.61	1
11031	1234678-HpCDD	35822-46-9	5.10	JB	0.0324	5.61	1
11031	OCDD	3268-87-9	29.8	B	0.0323	11.2	1
11031	2378-TCDF	51207-31-9	0.366	JBQ	0.0478	1.12	1
11031	12378-PeCDF	57117-41-6	0.307	JBQ	0.0185	5.61	1
11031	23478-PeCDF	57117-31-4	0.570	JB	0.0187	5.61	1
11031	123478-HxCDF	70648-26-9	0.260	JB	0.0177	5.61	1
11031	123678-HxCDF	57117-44-9	0.215	JB	0.0149	5.61	1
11031	123789-HxCDF	72918-21-9	0.117	JB	0.0192	5.61	1
11031	234678-HxCDF	60851-34-5	0.238	JB	0.0169	5.61	1
11031	1234678-HpCDF	67562-39-4	0.994	JB	0.0165	5.61	1
11031	1234789-HpCDF	55673-89-7	0.132	JBQ	0.0270	5.61	1
11031	OCDF	39001-02-0	1.53	JB	0.0288	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SED-023-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164977
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2308 SDG#: DX023-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-023-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164977
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2308 SDG#: DX023-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/15/2011 22:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164978
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2309 SDG#: DX023-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164978
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2309 SDG#: DX023-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.184	JB	0.0335	1.08	1
11031	12378-PeCDD	40321-76-4	0.532	JB	0.0801	5.41	1
11031	123478-HxCDD	39227-28-6	0.986	JB	0.0528	5.41	1
11031	123678-HxCDD	57653-85-7	5.60	B	0.0543	5.41	1
11031	123789-HxCDD	19408-74-3	1.93	JB	0.0527	5.41	1
11031	1234678-HpCDD	35822-46-9	136	B	0.172	5.41	1
11031	OCDD	3268-87-9	1,310	B	0.113	10.8	1
11031	2378-TCDF	51207-31-9	0.473	JB	0.0584	1.08	1
11031	12378-PeCDF	57117-41-6	0.657	JB	0.0258	5.41	1
11031	23478-PeCDF	57117-31-4	0.792	JB	0.0267	5.41	1
11031	123478-HxCDF	70648-26-9	0.858	JB	0.0446	5.41	1
11031	123678-HxCDF	57117-44-9	1.06	JB	0.0385	5.41	1
11031	123789-HxCDF	72918-21-9	0.176	JB	0.0553	5.41	1
11031	234678-HxCDF	60851-34-5	1.35	JB	0.0424	5.41	1
11031	1234678-HpCDF	67562-39-4	29.1	B	0.0382	5.41	1
11031	1234789-HpCDF	55673-89-7	2.68	JB	0.0724	5.41	1
11031	OCDF	39001-02-0	80.4	B	0.0560	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164978
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2309 SDG#: DX023-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-022-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164978
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2309 SDG#: DX023-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/15/2011 23:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164979
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2310 SDG#: DX023-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164979
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2310 SDG#: DX023-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.135	JBQ	0.0262	1.06	1
11031	12378-PeCDD	40321-76-4	0.843	JB	0.0570	5.28	1
11031	123478-HxCDD	39227-28-6	1.57	JB	0.0528	5.28	1
11031	123678-HxCDD	57653-85-7	3.86	JB	0.0551	5.28	1
11031	123789-HxCDD	19408-74-3	3.20	JB	0.0520	5.28	1
11031	1234678-HpCDD	35822-46-9	116	B	0.134	5.28	1
11031	OCDD	3268-87-9	1,280	B	0.0855	10.6	1
11031	2378-TCDF	51207-31-9	0.276	JBQ	0.0508	1.06	1
11031	12378-PeCDF	57117-41-6	0.659	JB	0.0226	5.28	1
11031	23478-PeCDF	57117-31-4	0.641	JB	0.0235	5.28	1
11031	123478-HxCDF	70648-26-9	0.887	JB	0.0445	5.28	1
11031	123678-HxCDF	57117-44-9	2.54	JB	0.0367	5.28	1
11031	123789-HxCDF	72918-21-9	0.718	JBQ	0.0526	5.28	1
11031	234678-HxCDF	60851-34-5	1.22	JB	0.0422	5.28	1
11031	1234678-HpCDF	67562-39-4	22.0	B	0.0313	5.28	1
11031	1234789-HpCDF	55673-89-7	1.91	JB	0.0560	5.28	1
11031	OCDF	39001-02-0	63.9	B	0.0620	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164979
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2310 SDG#: DX023-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164979
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2310 SDG#: DX023-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/16/2011 03:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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Analysis Report

Sample Description: **SL-126-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164980
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2311 SDG#: DX023-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164980
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2311 SDG#: DX023-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.126	JB	0.0193	1.05	1
11031	12378-PeCDD	40321-76-4	0.942	JB	0.0524	5.25	1
11031	123478-HxCDD	39227-28-6	1.87	JB	0.0440	5.25	1
11031	123678-HxCDD	57653-85-7	5.41	B	0.0454	5.25	1
11031	123789-HxCDD	19408-74-3	3.99	JB	0.0459	5.25	1
11031	1234678-HpCDD	35822-46-9	174	B	0.142	5.25	1
11031	OCDD	3268-87-9	1,800	B	0.102	10.5	1
11031	2378-TCDF	51207-31-9	0.318	JB	0.0446	1.05	1
11031	12378-PeCDF	57117-41-6	0.765	JB	0.0192	5.25	1
11031	23478-PeCDF	57117-31-4	0.742	JB	0.0194	5.25	1
11031	123478-HxCDF	70648-26-9	1.23	JB	0.0328	5.25	1
11031	123678-HxCDF	57117-44-9	1.75	JB	0.0297	5.25	1
11031	123789-HxCDF	72918-21-9	0.685	JB	0.0385	5.25	1
11031	234678-HxCDF	60851-34-5	1.23	JB	0.0317	5.25	1
11031	1234678-HpCDF	67562-39-4	33.0	B	0.0398	5.25	1
11031	1234789-HpCDF	55673-89-7	2.06	JB	0.0546	5.25	1
11031	OCDF	39001-02-0	103	B	0.0385	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164980
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2311 SDG#: DX023-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164980
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2311 SDG#: DX023-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/16/2011 04:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164981
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2312 SDG#: DX023-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164981
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2312 SDG#: DX023-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.166 JBQ	0.0211	1.06	1
11031	12378-PeCDD	40321-76-4	1.94 JB	0.0523	5.28	1
11031	123478-HxCDD	39227-28-6	4.08 JB	0.0561	5.28	1
11031	123678-HxCDD	57653-85-7	23.9 B	0.0584	5.28	1
11031	123789-HxCDD	19408-74-3	8.22 B	0.0581	5.28	1
11031	1234678-HpCDD	35822-46-9	949 B	0.271	5.28	1
11031	OCDD	3268-87-9	11,200 EB	0.143	10.6	1
11031	2378-TCDF	51207-31-9	0.330 JB	0.0439	1.06	1
11031	12378-PeCDF	57117-41-6	0.687 JB	0.0197	5.28	1
11031	23478-PeCDF	57117-31-4	0.839 JB	0.0202	5.28	1
11031	123478-HxCDF	70648-26-9	3.48 JB	0.0545	5.28	1
11031	123678-HxCDF	57117-44-9	3.48 JB	0.0468	5.28	1
11031	123789-HxCDF	72918-21-9	1.15 JB	0.0626	5.28	1
11031	234678-HxCDF	60851-34-5	3.93 JB	0.0504	5.28	1
11031	1234678-HpCDF	67562-39-4	195 B	0.0627	5.28	1
11031	1234789-HpCDF	55673-89-7	9.95 B	0.0994	5.28	1
11031	OCDF	39001-02-0	773 B	0.0673	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	78	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164981
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2312 SDG#: DX023-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-129-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164981
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2312 SDG#: DX023-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/16/2011 05:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164982
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2313 SDG#: DX023-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164982
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2313 SDG#: DX023-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0810	JBQ	0.0186	1.06	1
11031	12378-PeCDD	40321-76-4	0.614	JB	0.0358	5.30	1
11031	123478-HxCDD	39227-28-6	1.09	JB	0.0284	5.30	1
11031	123678-HxCDD	57653-85-7	3.18	JB	0.0292	5.30	1
11031	123789-HxCDD	19408-74-3	2.57	JB	0.0290	5.30	1
11031	1234678-HpCDD	35822-46-9	89.1	B	0.0712	5.30	1
11031	OCDD	3268-87-9	920	B	0.0639	10.6	1
11031	2378-TCDF	51207-31-9	0.293	JB	0.0385	1.06	1
11031	12378-PeCDF	57117-41-6	0.463	JB	0.0160	5.30	1
11031	23478-PeCDF	57117-31-4	0.679	JB	0.0173	5.30	1
11031	123478-HxCDF	70648-26-9	0.674	JB	0.0279	5.30	1
11031	123678-HxCDF	57117-44-9	0.746	JB	0.0234	5.30	1
11031	123789-HxCDF	72918-21-9	0.640	JB	0.0351	5.30	1
11031	234678-HxCDF	60851-34-5	0.796	JB	0.0262	5.30	1
11031	1234678-HpCDF	67562-39-4	13.8	B	0.0232	5.30	1
11031	1234789-HpCDF	55673-89-7	1.01	JB	0.0405	5.30	1
11031	OCDF	39001-02-0	39.3	B	0.0291	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164982
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2313 SDG#: DX023-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-128-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164982
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2313 SDG#: DX023-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/16/2011 06:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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Analysis Report

Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164983
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2314 SDG#: DX023-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164983
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2314 SDG#: DX023-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.141	JB	0.0358	1.16	1
11031	12378-PeCDD	40321-76-4	0.162	JBQ	0.0573	5.79	1
11031	123478-HxCDD	39227-28-6	0.220	JB	0.0481	5.79	1
11031	123678-HxCDD	57653-85-7	0.721	JB	0.0502	5.79	1
11031	123789-HxCDD	19408-74-3	0.471	JB	0.0476	5.79	1
11031	1234678-HpCDD	35822-46-9	11.3	B	0.0719	5.79	1
11031	OCDD	3268-87-9	148	B	0.0705	11.6	1
11031	2378-TCDF	51207-31-9	0.384	JBQ	0.0671	1.16	1
11031	12378-PeCDF	57117-41-6	0.588	JB	0.0301	5.79	1
11031	23478-PeCDF	57117-31-4	0.736	JB	0.0313	5.79	1
11031	123478-HxCDF	70648-26-9	0.418	JB	0.0505	5.79	1
11031	123678-HxCDF	57117-44-9	0.387	JB	0.0427	5.79	1
11031	123789-HxCDF	72918-21-9	0.375	JB	0.0602	5.79	1
11031	234678-HxCDF	60851-34-5	0.353	JB	0.0473	5.79	1
11031	1234678-HpCDF	67562-39-4	3.24	JB	0.0363	5.79	1
11031	1234789-HpCDF	55673-89-7	0.489	JB	0.0666	5.79	1
11031	OCDF	39001-02-0	8.78	JB	0.0550	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164983
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2314 SDG#: DX023-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-027-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164983
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2314 SDG#: DX023-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/16/2011 07:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164984
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2315 SDG#: DX023-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164984
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2315 SDG#: DX023-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0512	JBQ	0.0133	1.16	1
11031	12378-PeCDD	40321-76-4	0.376	JBQ	0.0331	5.80	1
11031	123478-HxCDD	39227-28-6	0.684	JB	0.0223	5.80	1
11031	123678-HxCDD	57653-85-7	4.59	JB	0.0227	5.80	1
11031	123789-HxCDD	19408-74-3	1.60	JB	0.0213	5.80	1
11031	1234678-HpCDD	35822-46-9	76.7	B	0.0729	5.80	1
11031	OCDD	3268-87-9	1,490	B	0.0773	11.6	1
11031	2378-TCDF	51207-31-9	0.426	JB	0.0383	1.16	1
11031	12378-PeCDF	57117-41-6	1.91	JB	0.0142	5.80	1
11031	23478-PeCDF	57117-31-4	0.871	JB	0.0147	5.80	1
11031	123478-HxCDF	70648-26-9	0.673	JB	0.0182	5.80	1
11031	123678-HxCDF	57117-44-9	0.673	JB	0.0151	5.80	1
11031	123789-HxCDF	72918-21-9	0.377	JB	0.0202	5.80	1
11031	234678-HxCDF	60851-34-5	0.683	JB	0.0173	5.80	1
11031	1234678-HpCDF	67562-39-4	13.4	B	0.0194	5.80	1
11031	1234789-HpCDF	55673-89-7	0.727	JB	0.0302	5.80	1
11031	OCDF	39001-02-0	50.3	B	0.0202	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164984
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2315 SDG#: DX023-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-026-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164984
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2315 SDG#: DX023-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/17/2011 22:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164985
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2316 SDG#: DX023-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164985
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2316 SDG#: DX023-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0302 JB	0.0161	1.15	1
11031	12378-PeCDD	40321-76-4	0.0657 JBQ	0.0230	5.74	1
11031	123478-HxCDD	39227-28-6	0.0317 JBQ	0.0181	5.74	1
11031	123678-HxCDD	57653-85-7	0.124 JB	0.0186	5.74	1
11031	123789-HxCDD	19408-74-3	0.155 JBQ	0.0188	5.74	1
11031	1234678-HpCDD	35822-46-9	1.38 JB	0.0257	5.74	1
11031	OCDD	3268-87-9	19.0 B	0.0307	11.5	1
11031	2378-TCDF	51207-31-9	0.0138 U	0.0138	1.15	1
11031	12378-PeCDF	57117-41-6	0.0816 JB	0.00907	5.74	1
11031	23478-PeCDF	57117-31-4	0.114 JBQ	0.00987	5.74	1
11031	123478-HxCDF	70648-26-9	0.0766 JBQ	0.0172	5.74	1
11031	123678-HxCDF	57117-44-9	0.0531 JB	0.0145	5.74	1
11031	123789-HxCDF	72918-21-9	0.132 JBQ	0.0202	5.74	1
11031	234678-HxCDF	60851-34-5	0.0566 JB	0.0161	5.74	1
11031	1234678-HpCDF	67562-39-4	0.304 JBQ	0.0156	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0571 JBQ	0.0281	5.74	1
11031	OCDF	39001-02-0	0.536 JBQ	0.0269	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-060-SA5C-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164985
LLI Group # 1225550
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

Submitted: 12/15/2010 09:40
Reported: 02/02/2011 17:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2316 SDG#: DX023-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2316 SDG#: DX023-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11005001	01/16/2011 09:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11005001	01/05/2011 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225550
Reported: 02/02/11 at 05:39 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10350162401A	Sample number(s): 6164976-6164984								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10364162402A	Sample number(s): 6164971,6164973-6164975								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10364162402B	Sample number(s): 6164970								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11005162401A	Sample number(s): 6164985								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10362001	Sample number(s): 6164972									
2378-TCDD	2.81		1.76	2.00	pg/l	89		67-158		
12378-PeCDD	0.684	J	0.492	10.0	pg/l	96		70-142		
123478-HxCDD	0.485	J	0.235	10.0	pg/l	106		70-164		
123678-HxCDD	0.512	J	0.243	10.0	pg/l	104		76-134		
123789-HxCDD	0.483	J	0.269	10.0	pg/l	106		64-162		
1234678-HpCDD	1.35	J	0.246	10.0	pg/l	108		70-140		
OCDD	2.39	J	0.274	20.0	pg/l	118		78-144		
2378-TCDF	0.181	J	0.166	2.00	pg/l	95		75-158		
12378-PeCDF	0.474	J	0.125	10.0	pg/l	104		80-134		
23478-PeCDF	0.810	J	0.113	10.0	pg/l	102		68-160		
123478-HxCDF	0.599	J	0.136	10.0	pg/l	111		72-134		
123678-HxCDF	0.568	J	0.132	10.0	pg/l	113		84-130		
123789-HxCDF	0.637	J	0.143	10.0	pg/l	111		78-130		
234678-HxCDF	0.505	J	0.136	10.0	pg/l	109		70-156		
1234678-HpCDF	1.41	J	0.122	10.0	pg/l	116		82-122		
1234789-HpCDF	0.582	J	0.148	10.0	pg/l	117		78-138		
OCDF	1.43	J	0.269	20.0	pg/l	122		63-170		
Batch number: 11005001	Sample number(s): 6164970-6164971,6164973-6164985									
2378-TCDD	0.0282	J	0.0170	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0679	J	0.0271	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0533	J	0.0252	5.00	ng/kg	107		70-164		
123678-HxCDD	0.0419	J	0.0257	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0658	J	0.0246	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.225	J	0.0346	5.00	ng/kg	104		70-140		
OCDD	0.570	J	0.0410	10.0	ng/kg	104		78-144		
2378-TCDF	0.0270	J	0.0161	1.00	ng/kg	113		75-158		
12378-PeCDF	0.0507	J	0.0109	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0914	J	0.0120	5.00	ng/kg	107		68-160		
123478-HxCDF	0.0754	J	0.0179	5.00	ng/kg	101		72-134		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225550
Reported: 02/02/11 at 05:39 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
123678-HxCDF	0.0628	J	0.0140	5.00	ng/kg	99		84-130		
123789-HxCDF	0.161	J	0.0212	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0900	J	0.0162	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.149	J	0.0144	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.113	J	0.0296	5.00	ng/kg	101		78-138		
OCDF	0.344	J	0.0458	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10350162401A	Sample number(s): 6164976-6164984 BKG: P154843								
28a Moisture Content by 160.3						12.4	13.1	6	20
Batch number: 10364162402A	Sample number(s): 6164971,6164973-6164975 BKG: P167525								
28a Moisture Content by 160.3						11.9	12.1	1	20
Batch number: 10364162402B	Sample number(s): 6164970 BKG: P163871								
28a Moisture Content by 160.3						11.4	11.7	3	20
Batch number: 11005162401A	Sample number(s): 6164985 BKG: P168986								
28a Moisture Content by 160.3						10.0	9.9	1	20
Batch number: 11005001	Sample number(s): 6164970-6164971,6164973-6164985 UNSPK: P165384								
2378-TCDD	105	103	67-158	2	25				
12378-PeCDD	106	105	70-142	1	25				
123478-HxCDD	106	107	70-164	1	25				
123678-HxCDD	108	104	76-134	4	25				
123789-HxCDD	107	106	64-162	1	25				
1234678-HpCDD	98	106	70-140	7	25				
OCDD	53*	102	78-144	36*	25				
2378-TCDF	109	107	75-158	2	25				
12378-PeCDF	105	105	80-134	1	25				
23478-PeCDF	105	104	68-160	0	25				
123478-HxCDF	102	100	72-134	2	25				
123678-HxCDF	99	100	84-130	0	25				
123789-HxCDF	101	99	78-130	3	25				
234678-HxCDF	101	101	70-156	0	25				
1234678-HpCDF	99	101	82-122	2	25				
1234789-HpCDF	101	101	78-138	0	25				
OCDF	100	105	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 10362001

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225550
Reported: 02/02/11 at 05:39 PM

Surrogate Quality Control

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6164972	11*	43	37	36	38	41
Blank	6*	70	67	66	66	69
OPR	10*	63	56	55	57	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6164972	39	38	37	22*	28	36
Blank	64	61	54	11*	32	58
OPR	55	54	48	17*	37	52
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6164972	34	33	39	38	38	39
Blank	54	49	63	55	57	68
OPR	50	46	56	48	51	60
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11005001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6164970	62	73	74	76	73	72
6164971	64	73	72	83	74	69
6164973	66	72	70	83	71	62
6164974	58	70	67	77	68	62
6164975	52	64	63	70	63	55
6164976	63	67	66	74	67	62
6164977	70	81	77	85	78	76
6164978	69	77	73	81	75	66
6164979	73	79	75	85	76	70
6164980	73	82	77	83	78	76
6164981	73	80	76	85	78	75
6164982	70	76	73	84	75	67
6164983	68	76	71	80	73	66
6164984	62	69	70	80	72	67
6164985	71	75	71	82	74	68
Blank	62	63	60	72	63	56
MS	69	79	75	85	76	70
MSD	78	87	84	87	82	84
OPR	63	64	64	73	66	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6164970	81	67	56	77	70	73
6164971	92	65	56	75	75	76
6164973	95	61	53	76	74	75

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225550
Reported: 02/02/11 at 05:39 PM

Surrogate Quality Control

6164974	87	60	52	69	70	71
6164975	78	53	43	64	63	65
6164976	80	55	43	69	66	68
6164977	93	69	57	81	80	80
6164978	89	58	45	78	77	77
6164979	95	64	51	80	80	80
6164980	83	71	59	79	81	79
6164981	91	69	60	78	79	79
6164982	100	69	61	78	79	79
6164983	90	60	48	79	78	78
6164984	87	66	60	67	67	72
6164985	96	64	56	80	77	77
Blank	85	51	41	76	69	71
MS	94	65	57	79	79	80
MSD	91	80	72	85	83	83
OPR	83	59	49	71	69	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6164970	72	71	71	64	68	75
6164971	75	75	74	68	67	82
6164973	75	74	74	67	69	82
6164974	71	71	70	63	64	77
6164975	65	63	63	52	59	70
6164976	67	68	67	56	67	74
6164977	79	81	79	69	74	88
6164978	77	77	74	63	75	85
6164979	79	80	77	68	77	87
6164980	77	78	76	71	78	88
6164981	78	79	79	76	77	88
6164982	79	79	82	76	71	85
6164983	75	76	75	63	73	84
6164984	71	72	72	70	65	76
6164985	76	77	79	70	74	86
Blank	69	70	68	61	60	73
MS	78	79	77	70	75	87
MSD	81	82	82	75	83	89
OPR	70	70	71	62	62	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
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13013 1225550 6164970-85

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-ETH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	*Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-002-SA5C-SB-4.0-5.0	12.14.10	0942	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-002-SA5C-SB-9.0-10.0	12.14.10	0950	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
TB-121410	12.14.10	0800	water	HCl	2-40 mL VOA vials	X	X		X																				trip blank
EB02-SA5B-121410	12.14.10	1230	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB02-SA5B-121410	12.14.10	1230	water	none	1-500 ml poly							X	X			X													rinsate
EB02-SA5B-121410	12.14.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB02-SA5B-121410	12.14.10	1230	water	HCl	6-40 mL amber VOA vials	X	X		X																				rinsate
SL-002-SA5C-SB-9.5	12.14.10	0948	soil	none	5 Encore Samplers	X	X		X																				
SL-002-SA5C-SB-4.5	12.14.10	0938	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-4.5	12.14.10	1104	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.5	12.14.10	1115	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SA5C-SB-9.0-10.0	12.14.10	1118	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-004-SA5C-SB-4.0-5.0	12.14.10	1111	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-140-SA5C-SB-3.0-4.0	12.14.10	1428	soil	none	2 x 16 oz. jars			X			X	X	X	X	X	X													
SL-140-SA5C-SB-3.5	12.14.10	1425	soil	none	5 Encore Samplers	X	X																						
DUP05-SA5B-QC-121410	12.14.10	0850	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									DUP
SL-120-SA5B-SS-0.0-0.5MS	12.14.10	0847	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X			X	X									MS/MSD
SL-108-SA5B-SS-0.0-0.5	12.14.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-119-SA5B-SS-0.0-0.5	12.14.10	0830	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-240-SA5B-SS-0.0-0.5	12.14.10	0933	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-109-SA5B-SS-0.0-0.5	12.14.10	0909	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-122-SA5B-SS-0.0-0.5	12.14.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-121-SA5B-SS-0.0-0.5	12.14.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-054-SA5B-SS-0.0-0.5	12.14.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-105-SA5B-SS-0.0-0.5	12.14.10	0835	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-098-SA5B-SS-0.0-0.5	12.14.10	1043	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X	X									
SL-142-SA5B-SS-0.0-0.5	12.14.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-143-SA5B-SS-0.0-0.5	12.14.10	1115	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-123-SA5B-SS-0.0-0.5	12.14.10	1040	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-124-SA5B-SS-0.0-0.5	12.14.10	1100	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-309-SA5B-SS-0.0-0.5	12.14.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-311-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-310-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-312-SA5B-SS-0.0-0.5	12.14.10	1427	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-025-SIV-SD-0.0-0.5	12.14.10	1244	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-024-SIV-SD-0.0-0.5	12.14.10	1116	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X	X									
SED-023-SIV-SD-0.0-0.5	12.14.10	0919	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-022-SIV-SD-0.0-0.5	12.14.10	1008	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-125-SA5B-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-126-SA5B-SS-0.0-0.5	12.14.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-129-SA5B-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-128-SA5B-SS-0.0-0.5	12.14.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-027-SIV-SD-0.0-0.5	12.14.10	1559	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SED-026-SIV-SD-0.0-0.5	12.14.10	1522	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-060-SA5C-SB-10.0-11.0	12.14.10	1618	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-060-SA5C-SB-10.5	12.14.10	1614	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	12.14.10 1700		12/15/10 946
Received by: (Signature)	Date/Time	Airbill No.	
		00732992	
		Tracking Number 869514317156	

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/16/2010
Group Number: 1225757
SDG: DE040
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-132-SA5B-SS-0.0-0.5 Grab Soil	6166074
SL-133-SA5B-SS-0.0-0.5 Grab Soil	6166075
SL-131-SA5B-SS-0.0-0.5 Grab Soil	6166076
SL-135-SA5B-SS-0.0-0.5 Grab Soil	6166077
SL-134-SA5B-SS-0.0-0.5 Grab Soil	6166078
SED-021-SIV-SD-0.0-0.5 Grab Soil	6166079
SED-018-SIV-SD-0.0-0.5 Grab Soil	6166080
SED-016-SIV-SD-0.0-0.5 Grab Soil	6166082
SL-153-SA5B-SS-0.0-0.5 Grab Soil	6166083
SL-155-SA5B-SS-0.0-0.5 Grab Soil	6166084
SL-149-SA5B-SS-0.0-0.5 Grab Soil	6166085
SL-156-SA5B-SS-0.0-0.5 Grab Soil	6166086
SL-150-SA5B-SS-0.0-0.5 Grab Soil	6166087
SL-181-SA5B-SS-0.0-0.5 Grab Soil	6166088
SL-136-SA5B-SS-0.0-0.5 Grab Soil	6166089
SL-203-SA5B-SS-0.0-0.5 Grab Soil	6166090
SL-257-SA5B-SS-0.0-0.5 Grab Soil	6166091
SL-204-SA5B-SS-0.0-0.5 Grab Soil	6166092

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-132-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166074
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE040-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	940	U	940	2,800	1
04688	Benzidine	92-87-5	6,600	U	6,600	19,000	1
04688	Benzoic acid	65-85-0	940	U	940	2,800	1
04688	Benzyl alcohol	100-51-6	940	U	940	2,800	1
04688	4-Bromophenyl-phenylether	101-55-3	94	U	94	940	1
04688	Butylbenzylphthalate	85-68-7	94	U	94	940	1
04688	Di-n-butylphthalate	84-74-2	94	U	94	940	1
04688	Carbazole	86-74-8	94	U	94	940	1
04688	4-Chloro-3-methylphenol	59-50-7	190	U	190	940	1
04688	4-Chloroaniline	106-47-8	380	U	380	940	1
04688	bis(2-Chloroethoxy)methane	111-91-1	94	U	94	940	1
04688	bis(2-Chloroethyl)ether	111-44-4	94	U	94	940	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	94	U	94	940	1
04688	2-Chloronaphthalene	91-58-7	94	U	94	940	1
04688	2-Chlorophenol	95-57-8	94	U	94	940	1
04688	4-Chlorophenyl-phenylether	7005-72-3	190	U	190	940	1
04688	Dibenzofuran	132-64-9	94	U	94	940	1
04688	1,2-Dichlorobenzene	95-50-1	94	U	94	940	1
04688	1,3-Dichlorobenzene	541-73-1	94	U	94	940	1
04688	1,4-Dichlorobenzene	106-46-7	94	U	94	940	1
04688	3,3'-Dichlorobenzidine	91-94-1	560	U	560	1,900	1
04688	2,4-Dichlorophenol	120-83-2	94	U	94	940	1
04688	Diethylphthalate	84-66-2	94	U	94	940	1
04688	2,4-Dimethylphenol	105-67-9	190	U	190	940	1
04688	3,5-Dimethylphenol	108-68-9	190	U	190	940	1
04688	Dimethylphthalate	131-11-3	94	U	94	940	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	940	U	940	2,800	1
04688	2,4-Dinitrophenol	51-28-5	3,800	U	3,800	11,000	1
04688	2,4-Dinitrotoluene	121-14-2	190	U	190	940	1
04688	2,6-Dinitrotoluene	606-20-2	94	U	94	940	1
04688	1,2-Diphenylhydrazine	122-66-7	94	U	94	940	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	94	U	94	1,900	1
04688	Hexachlorobenzene	118-74-1	94	U	94	940	1
04688	Hexachlorobutadiene	87-68-3	380	U	380	940	1
04688	Hexachlorocyclopentadiene	77-47-4	940	U	940	2,800	1
04688	Hexachloroethane	67-72-1	94	U	94	940	1
04688	Isophorone	78-59-1	94	U	94	940	1
04688	2-Methylphenol	95-48-7	190	U	190	940	1
04688	4-Methylphenol	106-44-5	190	U	190	940	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	94	U	94	940	1
04688	3-Nitroaniline	99-09-2	190	U	190	940	1
04688	4-Nitroaniline	100-01-6	380	U	380	940	1
04688	Nitrobenzene	98-95-3	94	U	94	940	1
04688	2-Nitrophenol	88-75-5	94	U	94	940	1
04688	4-Nitrophenol	100-02-7	940	U	940	2,800	1
04688	N-Nitroso-di-n-propylamine	621-64-7	94	U	94	940	1
04688	N-Nitrosodiphenylamine	86-30-6	94	U	94	940	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166074
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE040-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	94	U	94	940	1
04688	Pentachlorophenol	87-86-5	940	U	940	2,800	1
04688	Phenol	108-95-2	94	U	94	940	1
04688	1,2,4-Trichlorobenzene	120-82-1	94	U	94	940	1
04688	2,4,5-Trichlorophenol	95-95-4	190	U	190	940	1
04688	2,4,6-Trichlorophenol	88-06-2	190	U	190	940	1
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	19	U	19	47	5
10138	Acenaphthylene	208-96-8	9.4	U	9.4	47	5
10138	Anthracene	120-12-7	9.4	U	9.4	47	5
10138	Benzo(a)anthracene	56-55-3	19	U	19	47	5
10138	Benzo(a)pyrene	50-32-8	19	U	19	47	5
10138	Benzo(b)fluoranthene	205-99-2	22	J	19	47	5
10138	Benzo(g,h,i)perylene	191-24-2	24	J	19	47	5
10138	Benzo(k)fluoranthene	207-08-9	19	U	19	47	5
10138	Chrysene	218-01-9	29	J	9.4	47	5
10138	Dibenz(a,h)anthracene	53-70-3	19	U	19	47	5
10138	Fluoranthene	206-44-0	22	J	19	47	5
10138	Fluorene	86-73-7	19	U	19	47	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19	U	19	47	5
10138	1-Methylnaphthalene	90-12-0	69		19	47	5
10138	2-Methylnaphthalene	91-57-6	72		19	47	5
10138	Naphthalene	91-20-3	160		19	47	5
10138	N-Nitrosodimethylamine	62-75-9	19	U	19	47	5
10138	Phenanthrene	85-01-8	120		19	47	5
10138	Pyrene	129-00-0	25	J	19	47	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	7.2		0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	180	J	86	280	1
10401	MCPP (Mecoprop)	93-65-2	210	U	210	280	1
10401	2,4,5-T	93-76-5	0.28		0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

When the concentration detected on the primary and confirmation

Sample Description: **SL-132-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166074
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE040-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: MCPP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.34	U	0.34	0.86	1
01363	Alpha BHC	319-84-6	0.18	U	0.18	0.86	1
01363	Beta BHC	319-85-7	1.0		0.31	0.86	1
01363	Gamma BHC - Lindane	58-89-9	0.31	U	0.31	0.86	1
01363	Chlordane	57-74-9	570		21	88	5
01363	p,p-DDD	72-54-8	1.7	U	1.7	8.8	5
01363	p,p-DDE	72-55-9	1.7	U	1.7	8.8	5
01363	p,p-DDT	50-29-3	9.2	U	9.2	9.2	5
01363	Delta BHC	319-86-8	0.26	U	0.26	0.86	1
01363	Dieldrin	60-57-1	1.7	U	1.7	8.8	5
01363	Endosulfan I	959-98-8	1.1	U	1.1	4.3	5
01363	Endosulfan II	33213-65-9	1.7	U	1.7	8.8	5
01363	Endosulfan Sulfate	1031-07-8	1.7	U	1.7	8.8	5
01363	Endrin	72-20-8	1.7	U	1.7	8.8	5
01363	Endrin Aldehyde	7421-93-4	13	U	13	13	5
01363	Endrin Ketone	53494-70-5	6.1	U	6.1	8.8	5
01363	Heptachlor	76-44-8	0.36	J	0.31	0.86	1
01363	Heptachlor Epoxide	1024-57-3	0.88	U	0.88	4.3	5
01363	Methoxychlor	72-43-5	8.8	U	8.8	43	5
01363	Mirex	2385-85-5	1.7	U	1.7	8.8	5
01363	Toxaphene	8001-35-2	57	U	57	170	5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	23	U	23	74	20
10225	Aroclor 5442	12642-23-8	23	U	23	74	20
10225	Aroclor 5460	11126-42-4	23	U	23	74	20
10225	PCB-1016	12674-11-2	7.4	U	7.4	38	20
10225	PCB-1221	11104-28-2	11	U	11	38	20
10225	PCB-1232	11141-16-5	12	U	12	38	20
10225	PCB-1242	53469-21-9	11	U	11	38	20
10225	PCB-1248	12672-29-6	7.4	U	7.4	38	20
10225	PCB-1254	11097-69-1	49		7.4	38	20
10225	PCB-1260	11096-82-5	7.4	U	7.4	38	20
10225	PCB-1262	37324-23-5	7.4	U	7.4	38	20
10225	PCB-1268	11100-14-4	7.4	U	7.4	38	20

Sample Description: SL-132-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166074
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE040-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.50	21.9	1
07914	Boron	7440-42-8	6.95		0.973	5.47	1
01650	Calcium	7440-70-2	3,050		6.70	21.9	1
01654	Iron	7439-89-6	20,200		5.15	21.9	1
01656	Lithium	7439-93-2	15.5		0.24	2.2	1
01657	Magnesium	7439-95-4	3,690		2.78	10.9	1
06958	Manganese	7439-96-5	219		0.0853	0.547	1
10145	Phosphorus	7723-14-0	399		0.612	10.9	1
01662	Potassium	7440-09-7	2,520		19.7	54.7	1
01667	Sodium	7440-23-5	129		40.8	109	1
07968	Strontium	7440-24-6	26.7		0.0678	0.547	1
06969	Tin	7440-31-5	2.60	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,200		0.415	1.09	1
10146	Zirconium	7440-67-7	2.36	J	0.918	5.47	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0662	U	0.0662	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.84		0.0662	0.442	2
06126	Barium	7440-39-3	84.9		0.119	0.442	2
06127	Beryllium	7440-41-7	0.489		0.0177	0.110	2
06128	Cadmium	7440-43-9	0.138		0.0397	0.110	2
06131	Chromium	7440-47-3	22.6		0.132	0.442	2
06132	Cobalt	7440-48-4	5.22		0.0221	0.110	2
06133	Copper	7440-50-8	8.60		0.0729	0.442	2
06135	Lead	7439-92-1	19.8		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.505		0.0552	0.110	2
06139	Nickel	7440-02-0	14.3		0.110	0.442	2
06141	Selenium	7782-49-2	0.130	J	0.0442	0.442	2
06142	Silver	7440-22-4	0.109	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.197		0.0331	0.110	2
06148	Vanadium	7440-62-2	37.2		0.0243	0.110	2
06149	Zinc	7440-66-6	76.6		0.618	3.31	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166074
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE040-01

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	403	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.86	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	11.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/15/2011 17:09	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 08:11	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 11:36	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 01:51	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 02:05	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 15:13	Lindsey K Lafferty	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 13:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 13:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 12:38	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 13:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 12:38	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 12:38	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166074
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE040-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 12:38	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 12:38	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 13:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 13:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 12:38	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 12:38	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 13:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 12:38	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 05:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/11/2011 22:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 02:01	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 15:20	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166075
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE040-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	1,800	U	1,800	5,400	1
04688	Benzidine	92-87-5	13,000	U	13,000	36,000	1
04688	Benzoic acid	65-85-0	1,800	U	1,800	5,400	1
04688	Benzyl alcohol	100-51-6	1,800	U	1,800	5,400	1
04688	4-Bromophenyl-phenylether	101-55-3	180	U	180	1,800	1
04688	Butylbenzylphthalate	85-68-7	180	U	180	1,800	1
04688	Di-n-butylphthalate	84-74-2	180	U	180	1,800	1
04688	Carbazole	86-74-8	180	U	180	1,800	1
04688	4-Chloro-3-methylphenol	59-50-7	360	U	360	1,800	1
04688	4-Chloroaniline	106-47-8	720	U	720	1,800	1
04688	bis(2-Chloroethoxy)methane	111-91-1	180	U	180	1,800	1
04688	bis(2-Chloroethyl)ether	111-44-4	180	U	180	1,800	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	180	U	180	1,800	1
04688	2-Chloronaphthalene	91-58-7	180	U	180	1,800	1
04688	2-Chlorophenol	95-57-8	180	U	180	1,800	1
04688	4-Chlorophenyl-phenylether	7005-72-3	360	U	360	1,800	1
04688	Dibenzofuran	132-64-9	180	U	180	1,800	1
04688	1,2-Dichlorobenzene	95-50-1	180	U	180	1,800	1
04688	1,3-Dichlorobenzene	541-73-1	180	U	180	1,800	1
04688	1,4-Dichlorobenzene	106-46-7	180	U	180	1,800	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	U	1,100	3,600	1
04688	2,4-Dichlorophenol	120-83-2	180	U	180	1,800	1
04688	Diethylphthalate	84-66-2	180	U	180	1,800	1
04688	2,4-Dimethylphenol	105-67-9	360	U	360	1,800	1
04688	3,5-Dimethylphenol	108-68-9	360	U	360	1,800	1
04688	Dimethylphthalate	131-11-3	180	U	180	1,800	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,800	U	1,800	5,400	1
04688	2,4-Dinitrophenol	51-28-5	7,200	U	7,200	21,000	1
04688	2,4-Dinitrotoluene	121-14-2	360	U	360	1,800	1
04688	2,6-Dinitrotoluene	606-20-2	180	U	180	1,800	1
04688	1,2-Diphenylhydrazine	122-66-7	180	U	180	1,800	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	180	U	180	3,600	1
04688	Hexachlorobenzene	118-74-1	180	U	180	1,800	1
04688	Hexachlorobutadiene	87-68-3	720	U	720	1,800	1
04688	Hexachlorocyclopentadiene	77-47-4	1,800	U	1,800	5,400	1
04688	Hexachloroethane	67-72-1	180	U	180	1,800	1
04688	Isophorone	78-59-1	180	U	180	1,800	1
04688	2-Methylphenol	95-48-7	360	U	360	1,800	1
04688	4-Methylphenol	106-44-5	360	U	360	1,800	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	180	U	180	1,800	1
04688	3-Nitroaniline	99-09-2	360	U	360	1,800	1
04688	4-Nitroaniline	100-01-6	720	U	720	1,800	1
04688	Nitrobenzene	98-95-3	180	U	180	1,800	1
04688	2-Nitrophenol	88-75-5	180	U	180	1,800	1
04688	4-Nitrophenol	100-02-7	1,800	U	1,800	5,400	1
04688	N-Nitroso-di-n-propylamine	621-64-7	180	U	180	1,800	1
04688	N-Nitrosodiphenylamine	86-30-6	180	U	180	1,800	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166075
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE040-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	180	U	180	1,800	1
04688	Pentachlorophenol	87-86-5	1,800	U	1,800	5,400	1
04688	Phenol	108-95-2	180	U	180	1,800	1
04688	1,2,4-Trichlorobenzene	120-82-1	180	U	180	1,800	1
04688	2,4,5-Trichlorophenol	95-95-4	360	U	360	1,800	1
04688	2,4,6-Trichlorophenol	88-06-2	360	U	360	1,800	1
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	36	U	36	89	5
10138	Acenaphthylene	208-96-8	18	U	18	89	5
10138	Anthracene	120-12-7	18	U	18	89	5
10138	Benzo(a)anthracene	56-55-3	36	U	36	89	5
10138	Benzo(a)pyrene	50-32-8	44	J	36	89	5
10138	Benzo(b)fluoranthene	205-99-2	170		36	89	5
10138	Benzo(g,h,i)perylene	191-24-2	120		36	89	5
10138	Benzo(k)fluoranthene	207-08-9	36	U	36	89	5
10138	Chrysene	218-01-9	140		18	89	5
10138	Dibenz(a,h)anthracene	53-70-3	52	J	36	89	5
10138	Fluoranthene	206-44-0	36	U	36	89	5
10138	Fluorene	86-73-7	36	U	36	89	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39	J	36	89	5
10138	1-Methylnaphthalene	90-12-0	36	U	36	89	5
10138	2-Methylnaphthalene	91-57-6	36	U	36	89	5
10138	Naphthalene	91-20-3	230		36	89	5
10138	N-Nitrosodimethylamine	62-75-9	36	U	36	89	5
10138	Phenanthrene	85-01-8	36	U	36	89	5
10138	Pyrene	129-00-0	36	U	36	89	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	2.2		0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

Sample Description: **SL-133-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166075
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE040-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.4	U	1.4	3.6	20
01363	Alpha BHC	319-84-6	0.73	U	0.73	3.6	20
01363	Beta BHC	319-85-7	1.3	U	1.3	3.6	20
01363	Gamma BHC - Lindane	58-89-9	0.73	U	0.73	3.6	20
01363	Chlordane	57-74-9	660		86	360	100
01363	p,p-DDD	72-54-8	44	U	44	44	100
01363	p,p-DDE	72-55-9	350		35	180	500
01363	p,p-DDT	50-29-3	340		35	180	500
01363	Delta BHC	319-86-8	0.77	U	0.77	3.6	20
01363	Dieldrin	60-57-1	12	U	12	12	20
01363	Endosulfan I	959-98-8	0.94	U	0.94	3.6	20
01363	Endosulfan II	33213-65-9	1.4	U	1.4	7.3	20
01363	Endosulfan Sulfate	1031-07-8	4.1	U	4.1	7.3	20
01363	Endrin	72-20-8	1.4	U	1.4	7.3	20
01363	Endrin Aldehyde	7421-93-4	1.4	U	1.4	7.3	20
01363	Endrin Ketone	53494-70-5	1.4	U	1.4	7.3	20
01363	Heptachlor	76-44-8	2.9	U	2.9	3.6	20
01363	Heptachlor Epoxide	1024-57-3	0.73	U	0.73	3.6	20
01363	Methoxychlor	72-43-5	7.3	U	7.3	36	20
01363	Mirex	2385-85-5	1.4	U	1.4	7.3	20
01363	Toxaphene	8001-35-2	47	U	47	140	20

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of technical chlordane, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endosulfan sulfate.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18	5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18	5
10225	Aroclor 5460	11126-42-4	5.4	U	5.4	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1	5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.1	5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.1	5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.1	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1	5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.1	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166075
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE040-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.8	U	1.8	9.1	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1	5
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.34	21.2	1
07914	Boron	7440-42-8	5.69		0.945	5.31	1
01650	Calcium	7440-70-2	3,070		6.51	21.2	1
01654	Iron	7439-89-6	18,700		5.00	21.2	1
01656	Lithium	7439-93-2	15.8		0.23	2.1	1
01657	Magnesium	7439-95-4	3,560		2.70	10.6	1
06958	Manganese	7439-96-5	211		0.0829	0.531	1
10145	Phosphorus	7723-14-0	412		0.595	10.6	1
01662	Potassium	7440-09-7	2,550		19.1	53.1	1
01667	Sodium	7440-23-5	121		39.6	106	1
07968	Strontium	7440-24-6	20.4		0.0659	0.531	1
06969	Tin	7440-31-5	2.24	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,090		0.404	1.06	1
10146	Zirconium	7440-67-7	1.92	J	0.892	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0631	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.81		0.0631	0.421	2
06126	Barium	7440-39-3	58.2		0.114	0.421	2
06127	Beryllium	7440-41-7	0.350		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.140		0.0379	0.105	2
06131	Chromium	7440-47-3	14.1		0.126	0.421	2
06132	Cobalt	7440-48-4	3.76		0.0210	0.105	2
06133	Copper	7440-50-8	6.61		0.0694	0.421	2
06135	Lead	7439-92-1	9.98		0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.419		0.0526	0.105	2
06139	Nickel	7440-02-0	11.6		0.105	0.421	2
06141	Selenium	7782-49-2	0.125	J	0.0421	0.421	2
06142	Silver	7440-22-4	0.0610	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.147		0.0316	0.105	2
06148	Vanadium	7440-62-2	30.1		0.0231	0.105	2
06149	Zinc	7440-66-6	91.5		0.589	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.86	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166075
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE040-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	430		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.25		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.8		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 14:26	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 09:49	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 12:58	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 02:19	Jamie L Brillhart	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/16/2011 21:15	Jamie L Brillhart	100
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/20/2011 22:28	Jamie L Brillhart	500
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/24/2010 06:38	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166075
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE040-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 13:54	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 13:54	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 13:54	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:01	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 13:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 13:54	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 13:54	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:01	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 12:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 12:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 12:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/11/2011 23:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 03:13	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11014243202A	01/19/2011 15:28	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-133-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166075
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE040-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-131-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166076
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL131 SDG#: DE040-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-131-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166076
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL131 SDG#: DE040-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.95	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.84	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	8.6	U	8.6	8.6	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	500		80	260	1
10401	MCPP (Mecoprop)	93-65-2	190	U	190	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-131-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166076
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL131 SDG#: DE040-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.16	U	0.16	0.36	1
01363	p,p-DDE	72-55-9	0.14	U	0.14	0.36	1
01363	p,p-DDT	50-29-3	0.54	U	0.54	0.54	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	3.9		0.35	1.8	5
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.44	U	0.44	0.44	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	3.5		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.7		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Sample Description: **SL-131-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166076
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL131 SDG#: DE040-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.03	20.0	1
07914	Boron	7440-42-8	6.67		0.890	5.00	1
01650	Calcium	7440-70-2	3,180		6.13	20.0	1
01654	Iron	7439-89-6	22,500		4.71	20.0	1
01656	Lithium	7439-93-2	20.8		0.22	2.0	1
01657	Magnesium	7439-95-4	4,620		2.54	10.0	1
06958	Manganese	7439-96-5	331		0.0780	0.500	1
10145	Phosphorus	7723-14-0	422		0.560	10.0	1
01662	Potassium	7440-09-7	3,720		18.0	50.0	1
01667	Sodium	7440-23-5	125		37.3	100	1
07968	Strontium	7440-24-6	20.3		0.0620	0.500	1
06969	Tin	7440-31-5	2.49	J	1.00	10.0	1
06970	Titanium	7440-32-6	1,430		0.380	1.00	1
10146	Zirconium	7440-67-7	3.08	J	0.840	5.00	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0800	J	0.0630	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.13		0.0630	0.420	2
06126	Barium	7440-39-3	113		0.113	0.420	2
06127	Beryllium	7440-41-7	0.552		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.316		0.0378	0.105	2
06131	Chromium	7440-47-3	26.1		0.126	0.420	2
06132	Cobalt	7440-48-4	6.36		0.0210	0.105	2
06133	Copper	7440-50-8	10.4		0.0693	0.420	2
06135	Lead	7439-92-1	18.9		0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.536		0.0525	0.105	2
06139	Nickel	7440-02-0	16.6		0.105	0.420	2
06141	Selenium	7782-49-2	0.128	J	0.0420	0.420	2
06142	Silver	7440-22-4	0.0671	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.265		0.0315	0.105	2
06148	Vanadium	7440-62-2	41.0		0.0231	0.105	2
06149	Zinc	7440-66-6	103		0.588	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0421	J	0.0028	0.0984	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-131-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166076
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL131 SDG#: DE040-03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	449	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.05	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 15:00	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 10:22	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 13:25	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 03:01	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/20/2011 22:14	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/24/2010 06:57	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 16:27	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:04	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:04	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:04	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-131-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166076
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL131 SDG#: DE040-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:12	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:12	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:04	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:04	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:12	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:12	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:04	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:12	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/31/2010 07:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 05:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/11/2011 23:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 03:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 15:52	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166077
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL135 SDG#: DE040-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Anthracene	120-12-7	21	J	19	190	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	85	J	19	190	1
04688	Benzo(a)pyrene	50-32-8	73	J	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	92	J	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	46	J	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	44	J	19	190	1
04688	Benzoic acid	65-85-0	490	J	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Chrysene	218-01-9	110	J	19	190	1
04688	Dibenzofuran	132-64-9	50	J	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	300	J	19	370	1
04688	Fluoranthene	206-44-0	150	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	36	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	1-Methylnaphthalene	90-12-0	71	J	19	190	1
04688	2-Methylnaphthalene	91-57-6	67	J	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166077
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL135 SDG#: DE040-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenanthrene	85-01-8	200		19	190	1
04688	Phenol	108-95-2	20	J	19	190	1
04688	Pyrene	129-00-0	170	J	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3	5
10138	Acenaphthylene	208-96-8	1.9	J	1.9	9.3	5
10138	Dibenz(a,h)anthracene	53-70-3	4.6	J	3.7	9.3	5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3	5
10138	Naphthalene	91-20-3	49		3.7	9.3	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.3	U	2.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	27	U	27	27	1
10401	Dicamba	1918-00-9	0.60	J	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.30	U	0.30	0.30	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166077
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL135 SDG#: DE040-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.73	U	0.73	1.8	10
01363	Alpha BHC	319-84-6	0.38	U	0.38	1.8	10
01363	Beta BHC	319-85-7	0.67	U	0.67	1.8	10
01363	Gamma BHC - Lindane	58-89-9	0.87	J	0.38	1.8	10
01363	Chlordane	57-74-9	8.9	U	8.9	38	10
01363	p,p-DDD	72-54-8	6.2		0.73	3.8	10
01363	p,p-DDE	72-55-9	26		0.73	3.8	10
01363	p,p-DDT	50-29-3	14		0.73	3.8	10
01363	Delta BHC	319-86-8	0.40	U	0.40	1.8	10
01363	Dieldrin	60-57-1	0.73	U	0.73	3.8	10
01363	Endosulfan I	959-98-8	0.49	U	0.49	1.8	10
01363	Endosulfan II	33213-65-9	0.73	U	0.73	3.8	10
01363	Endosulfan Sulfate	1031-07-8	0.73	U	0.73	3.8	10
01363	Endrin	72-20-8	0.73	U	0.73	3.8	10
01363	Endrin Aldehyde	7421-93-4	5.2	U	5.2	5.2	10
01363	Endrin Ketone	53494-70-5	0.73	U	0.73	3.8	10
01363	Heptachlor	76-44-8	0.67	U	0.67	1.8	10
01363	Heptachlor Epoxide	1024-57-3	1.0	U	1.0	1.8	10
01363	Methoxychlor	72-43-5	3.8	U	3.8	18	10
01363	Mirex	2385-85-5	0.73	U	0.73	3.8	10
01363	Toxaphene	8001-35-2	24	U	24	73	10
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	37	10
10225	Aroclor 5442	12642-23-8	11	U	11	37	10
10225	Aroclor 5460	11126-42-4	17	J	11	37	10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19	10
10225	PCB-1221	11104-28-2	5.6	U	5.6	19	10
10225	PCB-1232	11141-16-5	5.8	U	5.8	19	10
10225	PCB-1242	53469-21-9	5.6	U	5.6	19	10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19	10
10225	PCB-1254	11097-69-1	20		3.7	19	10
10225	PCB-1260	11096-82-5	9.7	J	3.7	19	10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19	10
10225	PCB-1268	11100-14-4	3.7	U	3.7	19	10

*=This limit was used in the evaluation of the final result

Sample Description: **SL-135-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166077
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL135 SDG#: DE040-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		5.43	21.6	1
07914	Boron	7440-42-8	5.53		0.960	5.39	1
01650	Calcium	7440-70-2	2,960		6.61	21.6	1
01654	Iron	7439-89-6	20,800		5.08	21.6	1
01656	Lithium	7439-93-2	21.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,500		2.74	10.8	1
06958	Manganese	7439-96-5	250		0.0841	0.539	1
10145	Phosphorus	7723-14-0	414		0.604	10.8	1
01662	Potassium	7440-09-7	3,280		19.4	53.9	1
01667	Sodium	7440-23-5	110		40.2	108	1
07968	Strontium	7440-24-6	13.8		0.0669	0.539	1
06969	Tin	7440-31-5	2.56	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,320		0.410	1.08	1
10146	Zirconium	7440-67-7	1.84	J	0.906	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.207	J	0.0660	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.00		0.0660	0.440	2
06126	Barium	7440-39-3	66.1		0.119	0.440	2
06127	Beryllium	7440-41-7	0.455		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.296		0.0396	0.110	2
06131	Chromium	7440-47-3	16.9		0.132	0.440	2
06132	Cobalt	7440-48-4	4.26		0.0220	0.110	2
06133	Copper	7440-50-8	8.59		0.0726	0.440	2
06135	Lead	7439-92-1	80.9		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.507		0.0550	0.110	2
06139	Nickel	7440-02-0	11.7		0.110	0.440	2
06141	Selenium	7782-49-2	0.0906	J	0.0440	0.440	2
06142	Silver	7440-22-4	0.147		0.0132	0.110	2
06145	Thallium	7440-28-0	0.208		0.0330	0.110	2
06148	Vanadium	7440-62-2	29.7		0.0242	0.110	2
06149	Zinc	7440-66-6	105		0.616	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.186		0.0029	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.0		0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-135-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166077
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL135 SDG#: DE040-04

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	452	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.33	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	10	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 15:35	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 10:54	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 13:52	Sarah M Snyder	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103500020A	12/21/2010 18:22	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 03:29	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/24/2010 07:15	Lindsey K Lafferty	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 16:45	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103500020A	12/17/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:07	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-135-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166077
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL135 SDG#: DE040-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:07	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:16	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:07	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:16	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:16	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:16	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:16	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:07	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:07	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:16	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:16	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:16	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/31/2010 07:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 05:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/11/2011 23:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 04:01	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 16:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-134-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166078
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE040-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166078
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE040-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.81	J	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.80	J	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.97	J	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	1.7	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	1.2	J	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	1.0	J	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	1.1	J	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	3.4		0.70	1.8	1
10138	Pyrene	129-00-0	1.2	J	0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	170	J	80	260	1
10401	MCPP (Mecoprop)	93-65-2	200	J	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.073	J	0.036	0.17	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166078
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE040-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.22	U	0.22	0.22	1
01363	Gamma BHC - Lindane	58-89-9	0.075	U	0.075	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	2.0	U	2.0	2.0	1
01363	p,p-DDE	72-55-9	1.3	U	1.3	1.3	1
01363	p,p-DDT	50-29-3	4.2		0.35	1.8	5
01363	Delta BHC	319-86-8	0.054	J	0.038	0.17	1
01363	Dieldrin	60-57-1	0.35	U	0.35	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.18	U	0.18	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.40	U	0.40	0.40	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.62	U	0.62	0.62	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.15	U	0.15	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	6.9	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	6.9	2
10225	Aroclor 5460	11126-42-4	7.1		2.1	6.9	2
10225	PCB-1016	12674-11-2	0.69	U	0.69	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.69	U	0.69	3.6	2
10225	PCB-1254	11097-69-1	17		0.69	3.6	2
10225	PCB-1260	11096-82-5	9.4		0.69	3.6	2
10225	PCB-1262	37324-23-5	0.69	U	0.69	3.6	2
10225	PCB-1268	11100-14-4	0.69	U	0.69	3.6	2

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-134-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166078
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE040-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.19	20.6	1
07914	Boron	7440-42-8	4.96	J	0.918	5.15	1
01650	Calcium	7440-70-2	2,490		6.32	20.6	1
01654	Iron	7439-89-6	19,300		4.86	20.6	1
01656	Lithium	7439-93-2	19.8		0.23	2.1	1
01657	Magnesium	7439-95-4	3,630		2.62	10.3	1
06958	Manganese	7439-96-5	213		0.0804	0.515	1
10145	Phosphorus	7723-14-0	330		0.577	10.3	1
01662	Potassium	7440-09-7	2,550		18.6	51.5	1
01667	Sodium	7440-23-5	103		38.5	103	1
07968	Strontium	7440-24-6	15.6		0.0639	0.515	1
06969	Tin	7440-31-5	2.32	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,130		0.392	1.03	1
10146	Zirconium	7440-67-7	1.38	J	0.866	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118	J	0.0613	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.77		0.0613	0.408	2
06126	Barium	7440-39-3	72.6		0.110	0.408	2
06127	Beryllium	7440-41-7	0.556		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.180		0.0368	0.102	2
06131	Chromium	7440-47-3	28.1		0.123	0.408	2
06132	Cobalt	7440-48-4	5.29		0.0204	0.102	2
06133	Copper	7440-50-8	8.60		0.0674	0.408	2
06135	Lead	7439-92-1	13.8		0.0106	0.204	2
06138	Molybdenum	7439-98-7	0.575		0.0510	0.102	2
06139	Nickel	7440-02-0	17.6		0.102	0.408	2
06141	Selenium	7782-49-2	0.101	J	0.0408	0.408	2
06142	Silver	7440-22-4	0.123		0.0123	0.102	2
06145	Thallium	7440-28-0	0.202		0.0306	0.102	2
06148	Vanadium	7440-62-2	37.0		0.0225	0.102	2
06149	Zinc	7440-66-6	66.3		0.572	3.06	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0181	J	0.0029	0.0999	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166078
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE040-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	452	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.74	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 16:10	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 11:27	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 14:20	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 03:43	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/16/2011 21:29	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/24/2010 07:34	Lindsey K Lafferty	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 17:04	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:11	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-134-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166078
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE040-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:20	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:20	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:11	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:20	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:11	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:20	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/12/2011 00:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 04:25	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11014243202A	01/19/2011 16:16	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-021-SIV-SD-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166079
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DE040-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-021-SIV-SD-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166079
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DE040-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.62	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	4.7	U	4.7	4.7	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	280	U	280	280	1
10401	MCPP (Mecoprop)	93-65-2	370		79	260	1
10401	2,4,5-T	93-76-5	0.18	U	0.18	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: **SED-021-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166079
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DE040-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.16	U	0.16	0.17	1
01363	Gamma BHC - Lindane	58-89-9	1.3		0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.18	J	0.070	0.36	1
01363	p,p-DDT	50-29-3	0.62		0.070	0.36	1
01363	Delta BHC	319-86-8	0.81		0.038	0.17	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	21	U	21	70	20
10225	Aroclor 5442	12642-23-8	21	U	21	70	20
10225	Aroclor 5460	11126-42-4	21	U	21	70	20
10225	PCB-1016	12674-11-2	7.0	U	7.0	36	20
10225	PCB-1221	11104-28-2	11	U	11	36	20
10225	PCB-1232	11141-16-5	11	U	11	36	20
10225	PCB-1242	53469-21-9	11	U	11	36	20
10225	PCB-1248	12672-29-6	7.0	U	7.0	36	20
10225	PCB-1254	11097-69-1	7.0	U	7.0	36	20
10225	PCB-1260	11096-82-5	7.0	U	7.0	36	20
10225	PCB-1262	37324-23-5	7.0	U	7.0	36	20
10225	PCB-1268	11100-14-4	7.0	U	7.0	36	20

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result

Sample Description: **SED-021-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166079
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DE040-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,560		5.20	20.7	1
07914	Boron	7440-42-8	3.56	J	0.919	5.17	1
01650	Calcium	7440-70-2	1,820		6.33	20.7	1
01654	Iron	7439-89-6	16,900		4.87	20.7	1
01656	Lithium	7439-93-2	19.8		0.23	2.1	1
01657	Magnesium	7439-95-4	3,980		2.62	10.3	1
06958	Manganese	7439-96-5	239		0.0806	0.517	1
10145	Phosphorus	7723-14-0	324		0.579	10.3	1
01662	Potassium	7440-09-7	2,920		18.6	51.7	1
01667	Sodium	7440-23-5	63.5	J	38.5	103	1
07968	Strontium	7440-24-6	7.16		0.0641	0.517	1
06969	Tin	7440-31-5	2.17	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,130		0.393	1.03	1
10146	Zirconium	7440-67-7	0.868	U	0.868	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0608	U	0.0608	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.43		0.0608	0.405	2
06126	Barium	7440-39-3	62.3		0.109	0.405	2
06127	Beryllium	7440-41-7	0.274		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.0800	J	0.0365	0.101	2
06131	Chromium	7440-47-3	12.5		0.122	0.405	2
06132	Cobalt	7440-48-4	3.62		0.0203	0.101	2
06133	Copper	7440-50-8	4.44		0.0669	0.405	2
06135	Lead	7439-92-1	5.31		0.0105	0.203	2
06138	Molybdenum	7439-98-7	0.222		0.0507	0.101	2
06139	Nickel	7440-02-0	6.99		0.101	0.405	2
06141	Selenium	7782-49-2	0.0924	J	0.0405	0.405	2
06142	Silver	7440-22-4	0.0170	J	0.0122	0.101	2
06145	Thallium	7440-28-0	0.156		0.0304	0.101	2
06148	Vanadium	7440-62-2	26.8		0.0223	0.101	2
06149	Zinc	7440-66-6	42.6		0.567	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-021-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166079
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DE040-06

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	469	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.92	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 16:45	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 12:00	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 14:47	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 03:58	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 17:22	Lindsey K Lafferty	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:14	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:14	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:24	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-021-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166079
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DE040-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:14	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:14	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/12/2011 00:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 04:49	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11014243202A	01/19/2011 16:32	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-018-SIV-SD-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166080
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD018 SDG#: DE040-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166080
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD018 SDG#: DE040-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.65	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.0		0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.2		0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	4.7		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	4.1		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	8.0		0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	1.5	J	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	4.7		0.74	1.8	1
10138	Pyrene	129-00-0	5.4		0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	12	U	12	12	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	760		84	280	1
10401	MCPP (Mecoprop)	93-65-2	200	J	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.23		0.083	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166080
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD018 SDG#: DE040-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.20	U	0.20	0.38	1
01363	p,p-DDT	50-29-3	0.28	U	0.28	0.38	1
01363	Delta BHC	319-86-8	0.078	J	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.12	J	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	3.7		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.1	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	1.1	J	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166080
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD018 SDG#: DE040-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.53	22.0	1
07914	Boron	7440-42-8	5.74		0.978	5.49	1
01650	Calcium	7440-70-2	3,310		6.74	22.0	1
01654	Iron	7439-89-6	20,100		5.18	22.0	1
01656	Lithium	7439-93-2	27.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,410		2.79	11.0	1
06958	Manganese	7439-96-5	306		0.0857	0.549	1
10145	Phosphorus	7723-14-0	394		0.615	11.0	1
01662	Potassium	7440-09-7	3,880		19.8	54.9	1
01667	Sodium	7440-23-5	71.2	J	41.0	110	1
07968	Strontium	7440-24-6	14.8		0.0681	0.549	1
06969	Tin	7440-31-5	2.55	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,260		0.418	1.10	1
10146	Zirconium	7440-67-7	1.38	J	0.923	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	U	0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.12		0.0659	0.440	2
06126	Barium	7440-39-3	80.1		0.119	0.440	2
06127	Beryllium	7440-41-7	0.486		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.166		0.0396	0.110	2
06131	Chromium	7440-47-3	15.9		0.132	0.440	2
06132	Cobalt	7440-48-4	4.39		0.0220	0.110	2
06133	Copper	7440-50-8	6.16		0.0725	0.440	2
06135	Lead	7439-92-1	7.20		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.468		0.0549	0.110	2
06139	Nickel	7440-02-0	9.70		0.110	0.440	2
06141	Selenium	7782-49-2	0.155	J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0255	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.234		0.0330	0.110	2
06148	Vanadium	7440-62-2	28.6		0.0242	0.110	2
06149	Zinc	7440-66-6	54.9		0.615	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0097	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166080
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD018 SDG#: DE040-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	459	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.25	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 17:19	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 12:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 20:35	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 04:26	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/24/2010 08:11	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 17:41	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:18	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:18	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:28	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166080
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD018 SDG#: DE040-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:28	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:18	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:18	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:28	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:28	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:18	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:28	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/12/2011 00:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 05:13	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11014243202A	01/19/2011 16:48	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-016-SIV-SD-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166082
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DE040-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166082
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DE040-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	3.0		0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	5.6		0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	12		0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	3.1		0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	5.1		0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	9.0		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	16		0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.9		0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	5.5		0.74	1.9	1
10138	Pyrene	129-00-0	12		0.74	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	3.2	U	3.2	3.2	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	430		85	280	1
10401	MCPP (Mecoprop)	93-65-2	430		84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.20		0.084	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166082
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DE040-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	cases, the reporting limits have been raised. The following compound was affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	1.5	U	1.5	3.8	1
01363	p,p-DDD	72-54-8	0.28	U	0.28	0.38	1
01363	p,p-DDE	72-55-9	0.38	U	0.38	0.38	1
01363	p,p-DDT	50-29-3	0.99	U	0.99	0.99	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19	1
01363	Dieldrin	60-57-1	0.088	U	0.088	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19	1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.38	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	1.0	U	1.0	1.0	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	4.6		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	4.0		0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.61	22.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166082
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DE040-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	4.30	J	0.993	5.58	1
01650	Calcium	7440-70-2	2,450		6.84	22.3	1
01654	Iron	7439-89-6	19,300		5.26	22.3	1
01656	Lithium	7439-93-2	22.0		0.25	2.2	1
01657	Magnesium	7439-95-4	4,220		2.83	11.2	1
06958	Manganese	7439-96-5	260		0.0871	0.558	1
10145	Phosphorus	7723-14-0	299		0.625	11.2	1
01662	Potassium	7440-09-7	2,780		20.1	55.8	1
01667	Sodium	7440-23-5	89.4	J	41.6	112	1
07968	Strontium	7440-24-6	14.0		0.0692	0.558	1
06969	Tin	7440-31-5	2.59	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,270		0.424	1.12	1
10146	Zirconium	7440-67-7	1.30	J	0.938	5.58	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0657	U	0.0657	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.07		0.0657	0.438	2
06126	Barium	7440-39-3	69.7		0.118	0.438	2
06127	Beryllium	7440-41-7	0.468		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.154		0.0394	0.109	2
06131	Chromium	7440-47-3	17.9		0.131	0.438	2
06132	Cobalt	7440-48-4	4.65		0.0219	0.109	2
06133	Copper	7440-50-8	6.70		0.0722	0.438	2
06135	Lead	7439-92-1	6.00		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.377		0.0547	0.109	2
06139	Nickel	7440-02-0	10.3		0.109	0.438	2
06141	Selenium	7782-49-2	0.0957	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0265	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.214		0.0328	0.109	2
06148	Vanadium	7440-62-2	32.7		0.0241	0.109	2
06149	Zinc	7440-66-6	62.4		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0469	J	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.81	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166082
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DE040-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	467	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.00	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	10.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 17:54	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 13:04	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 21:02	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 04:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/24/2010 09:44	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 18:00	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:21	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:21	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:21	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:31	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166082
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DE040-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:31	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:31	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:21	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:21	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:31	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:31	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:21	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:31	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/12/2011 00:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 05:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 17:12	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-153-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166083
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL153 SDG#: DE040-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)pyrene	50-32-8	19	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	23	J	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	51	J	19	380	1
04688	Fluoranthene	206-44-0	20	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-153-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166083
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL153 SDG#: DE040-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	22	J	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.6	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6	5
10138	Benzo(a)anthracene	56-55-3	6.1	J	3.8	9.6	5
10138	Benzo(b)fluoranthene	205-99-2	13		3.8	9.6	5
10138	Benzo(g,h,i)perylene	191-24-2	4.4	J	3.8	9.6	5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.6	5
10138	Butylbenzylphthalate	85-68-7	35	U	35	100	5
10138	Chrysene	218-01-9	11		1.9	9.6	5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.6	5
10138	Diethylphthalate	84-66-2	35	U	35	100	5
10138	Dimethylphthalate	131-11-3	35	U	35	100	5
10138	Fluorene	86-73-7	3.8	U	3.8	9.6	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.6	5
10138	1-Methylnaphthalene	90-12-0	5.0	J	3.8	9.6	5
10138	2-Methylnaphthalene	91-57-6	6.4	J	3.8	9.6	5
10138	Naphthalene	91-20-3	27		3.8	9.6	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6	5
10138	Di-n-octylphthalate	117-84-0	35	U	35	100	5
10138	Phenanthrene	85-01-8	10		3.8	9.6	5
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	8.6	U	8.6	8.6	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0	1
10401	MCPA	94-74-6	300		88	290	1
10401	MCPP (Mecoprop)	93-65-2	180	U	180	180	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result

Sample Description: SL-153-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166083
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL153 SDG#: DE040-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9	1
01363	p,p-DDD	72-54-8	0.23	U	0.23	0.39	1
01363	p,p-DDE	72-55-9	0.24	U	0.24	0.39	1
01363	p,p-DDT	50-29-3	0.88	U	0.88	0.88	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.39	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.10	U	0.10	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6	2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6	2
10225	Aroclor 5460	11126-42-4	110		2.3	7.6	2
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9	2
10225	PCB-1221	11104-28-2	1.2	U	1.2	3.9	2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.9	2
10225	PCB-1242	53469-21-9	1.2	U	1.2	3.9	2
10225	PCB-1248	12672-29-6	0.76	U	0.76	3.9	2
10225	PCB-1254	11097-69-1	26		0.76	3.9	2
10225	PCB-1260	11096-82-5	38		0.76	3.9	2
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9	2
10225	PCB-1268	11100-14-4	0.76	U	0.76	3.9	2
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-153-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166083
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL153 SDG#: DE040-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		5.57	22.2	1
07914	Boron	7440-42-8	6.46		0.986	5.54	1
01650	Calcium	7440-70-2	3,630		6.79	22.2	1
01654	Iron	7439-89-6	21,400		5.22	22.2	1
01656	Lithium	7439-93-2	17.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,110		2.81	11.1	1
06958	Manganese	7439-96-5	274		0.0864	0.554	1
10145	Phosphorus	7723-14-0	336		0.620	11.1	1
01662	Potassium	7440-09-7	3,000		19.9	55.4	1
01667	Sodium	7440-23-5	121		41.3	111	1
07968	Strontium	7440-24-6	26.8		0.0687	0.554	1
06969	Tin	7440-31-5	2.54	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,260		0.421	1.11	1
10146	Zirconium	7440-67-7	2.00	J	0.931	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0678	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.42		0.0678	0.452	2
06126	Barium	7440-39-3	97.2		0.122	0.452	2
06127	Beryllium	7440-41-7	0.567		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.296		0.0407	0.113	2
06131	Chromium	7440-47-3	25.1		0.136	0.452	2
06132	Cobalt	7440-48-4	6.13		0.0226	0.113	2
06133	Copper	7440-50-8	11.0		0.0745	0.452	2
06135	Lead	7439-92-1	32.4		0.0117	0.226	2
06138	Molybdenum	7439-98-7	0.509		0.0565	0.113	2
06139	Nickel	7440-02-0	16.0		0.113	0.452	2
06141	Selenium	7782-49-2	0.117	J	0.0452	0.452	2
06142	Silver	7440-22-4	0.108	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.232		0.0339	0.113	2
06148	Vanadium	7440-62-2	41.9		0.0248	0.113	2
06149	Zinc	7440-66-6	84.1		0.633	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0513	J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.23	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-153-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166083
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL153 SDG#: DE040-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	501	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.84	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 18:28	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 13:38	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 21:30	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 06:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/24/2010 10:02	Lindsey K Lafferty	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 18:18	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:25	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:25	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:25	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:35	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-153-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166083
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL153 SDG#: DE040-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:35	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:35	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:25	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:25	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:35	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:35	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:35	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/12/2011 01:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 06:25	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 17:28	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102A	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402A	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166084
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL155 SDG#: DE040-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166084
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL155 SDG#: DE040-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.0		0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	2.3		0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	9.7		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	9.4		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	17		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	3.7		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	5.0		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	15		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	24		0.70	1.7	1
10138	Fluorene	86-73-7	0.92	J	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.70	1.7	1
10138	Naphthalene	91-20-3	1.2	J	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	18		0.70	1.7	1
10138	Pyrene	129-00-0	21		0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	9.2	U	9.2	9.2	1
10401	Dicamba	1918-00-9	0.48	J	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.2	J	0.84	1.8	1
10401	MCPA	94-74-6	810		79	260	1
10401	MCPP (Mecoprop)	93-65-2	290		78	260	1
10401	2,4,5-T	93-76-5	0.15	J	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

The LCS recovery for 2,4-DP is outside the QC limits. Results from the reextraction are within the limits. 2,4-DP was detected in the in the original extracted sample at 1.1 ug/kg. The reextracted sample did not

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166084
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL155 SDG#: DE040-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

contain 2,4-DP. This is due to the homogeneity of the sample. The hold time had expired prior to the reextraction so all results are reported from the original extract.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

	Pesticides/PCBs	**SW-846 8081A**	**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.38		0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	7.3	U	7.3	7.3	5
01363	Chlordane	57-74-9	2.3	U	2.3	3.6	1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.36	1
01363	p,p-DDE	72-55-9	0.34	U	0.34	0.36	1
01363	p,p-DDT	50-29-3	1.3	U	1.3	1.3	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.098	U	0.098	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.10	J	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	1.3	U	1.3	3.5	20
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

	Pesticides/PCBs	**SW-846 8082**	**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166084
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL155 SDG#: DE040-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	3.5		0.34	1.8	1
10225	PCB-1260	11096-82-5	1.8		0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.20	20.7	1
07914	Boron	7440-42-8	5.26		0.921	5.17	1
01650	Calcium	7440-70-2	3,280		6.34	20.7	1
01654	Iron	7439-89-6	25,700		4.87	20.7	1
01656	Lithium	7439-93-2	24.4		0.23	2.1	1
01657	Magnesium	7439-95-4	4,760		2.63	10.3	1
06958	Manganese	7439-96-5	331		0.0807	0.517	1
10145	Phosphorus	7723-14-0	483		0.579	10.3	1
01662	Potassium	7440-09-7	3,820		18.6	51.7	1
01667	Sodium	7440-23-5	107		38.6	103	1
07968	Strontium	7440-24-6	25.0		0.0641	0.517	1
06969	Tin	7440-31-5	2.58	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,440		0.393	1.03	1
10146	Zirconium	7440-67-7	1.99	J	0.869	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.148	J	0.0615	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.13		0.0615	0.410	2
06126	Barium	7440-39-3	84.6		0.111	0.410	2
06127	Beryllium	7440-41-7	0.526		0.0164	0.102	2
06128	Cadmium	7440-43-9	0.121		0.0369	0.102	2
06131	Chromium	7440-47-3	22.3		0.123	0.410	2
06132	Cobalt	7440-48-4	4.68		0.0205	0.102	2
06133	Copper	7440-50-8	8.75		0.0676	0.410	2
06135	Lead	7439-92-1	6.90		0.0107	0.205	2
06138	Molybdenum	7439-98-7	0.561		0.0512	0.102	2
06139	Nickel	7440-02-0	13.3		0.102	0.410	2
06141	Selenium	7782-49-2	0.0925	J	0.0410	0.410	2
06142	Silver	7440-22-4	0.0459	J	0.0123	0.102	2
06145	Thallium	7440-28-0	0.200		0.0307	0.102	2
06148	Vanadium	7440-62-2	32.0		0.0225	0.102	2
06149	Zinc	7440-66-6	50.5		0.574	3.07	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0084	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-155-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166084
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL155 SDG#: DE040-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.21	1.0	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	393		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.82		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 19:03	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 14:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 21:58	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 06:33	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 06:47	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/20/2011 22:43	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/29/2010 18:37	Lindsey K Lafferty	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-155-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166084
LLI Group # 1225757
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Suite 210
Chantilly VA 20151

SL155 SDG#: DE040-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:28	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:39	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:28	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:39	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:39	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:39	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:39	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:28	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:39	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:39	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:39	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205A	01/12/2011 01:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201A	01/07/2011 06:49	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 18:00	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205A	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201A	01/06/2011 00:00	Venia B McFadden	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-155-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166084
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL155 SDG#: DE040-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-149-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166085
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL149 SDG#: DE040-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	170	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166085
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL149 SDG#: DE040-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	2.1		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	2.8		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.5		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	3.8		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	4.3		0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.93	J	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.91	J	0.70	1.7	1
10138	Naphthalene	91-20-3	0.94	J	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	2.9		0.70	1.7	1
10138	Pyrene	129-00-0	3.9		0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	570		79	260	1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	200	1
10401	2,4,5-T	93-76-5	0.23	U	0.23	0.23	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166085
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL149 SDG#: DE040-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4,5-T.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.5	1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.35	1
01363	p,p-DDE	72-55-9	0.25	U	0.25	0.35	1
01363	p,p-DDT	50-29-3	1.3	U	1.3	1.3	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.85	U	0.85	0.85	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.11	U	0.11	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	5.0		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	3.0		0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166085
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL149 SDG#: DE040-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.20	20.7	1
07914	Boron	7440-42-8	5.93		0.920	5.17	1
01650	Calcium	7440-70-2	3,370		6.34	20.7	1
01654	Iron	7439-89-6	22,600		4.87	20.7	1
01656	Lithium	7439-93-2	21.9		0.23	2.1	1
01657	Magnesium	7439-95-4	4,170		2.63	10.3	1
06958	Manganese	7439-96-5	294		0.0806	0.517	1
10145	Phosphorus	7723-14-0	382		0.579	10.3	1
01662	Potassium	7440-09-7	3,020		18.6	51.7	1
01667	Sodium	7440-23-5	122		38.5	103	1
07968	Strontium	7440-24-6	18.8		0.0641	0.517	1
06969	Tin	7440-31-5	2.46	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,310		0.393	1.03	1
10146	Zirconium	7440-67-7	1.39	J	0.868	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0979	J	0.0626	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.28		0.0626	0.418	2
06126	Barium	7440-39-3	83.5		0.113	0.418	2
06127	Beryllium	7440-41-7	0.554		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.365		0.0376	0.104	2
06131	Chromium	7440-47-3	36.3		0.125	0.418	2
06132	Cobalt	7440-48-4	6.07		0.0209	0.104	2
06133	Copper	7440-50-8	10.8		0.0689	0.418	2
06135	Lead	7439-92-1	14.4		0.0109	0.209	2
06138	Molybdenum	7439-98-7	1.07		0.0522	0.104	2
06139	Nickel	7440-02-0	22.3		0.104	0.418	2
06141	Selenium	7782-49-2	0.130	J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0767	J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.262		0.0313	0.104	2
06148	Vanadium	7440-62-2	37.8		0.0230	0.104	2
06149	Zinc	7440-66-6	289		1.46	7.83	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0199	J	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166085
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL149 SDG#: DE040-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.21	1.0	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	433		10.0	10.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.48		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	4.2		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 19:37	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 14:44	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 22:25	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 07:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/30/2010 18:28	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:43	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:31	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-149-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166085
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL149 SDG#: DE040-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:43	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:43	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:43	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:43	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:31	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:43	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:43	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:31	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:43	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/31/2010 07:16	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205B	01/12/2011 01:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201B	01/07/2011 07:13	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11014243202A	01/19/2011 18:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205B	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201B	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-156-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166086
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL156 SDG#: DE040-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-156-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166086
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL156 SDG#: DE040-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	58		0.72	1.8	1
10138	Acenaphthylene	208-96-8	55		0.36	1.8	1
10138	Anthracene	120-12-7	230		0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	550		7.2	18	10
10138	Benzo(a)pyrene	50-32-8	410		7.2	18	10
10138	Benzo(b)fluoranthene	205-99-2	440		7.2	18	10
10138	Benzo(g,h,i)perylene	191-24-2	160		0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	210		0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	660		3.6	18	10
10138	Dibenz(a,h)anthracene	53-70-3	46		0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.6	J	6.4	19	1
10138	Fluoranthene	206-44-0	970		7.2	18	10
10138	Fluorene	86-73-7	190		0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	140		0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	330		0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	340		0.72	1.8	1
10138	Naphthalene	91-20-3	330		7.2	18	10
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	1,800		7.2	18	10
10138	Pyrene	129-00-0	1,400		7.2	18	10
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.2	J	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	14	U	14	14	1
10401	Dicamba	1918-00-9	0.80	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.97	J	0.86	1.8	1
10401	MCPA	94-74-6	680		82	270	1
10401	MCPP (Mecoprop)	93-65-2	580		81	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

The LCS recovery for 2,4-DP is outside the QC limits. Results from the reextraction are within the limits. 2,4-DP was detected in the in the original extracted sample at 0.90 ug/kg. The reextracted sample did not

Sample Description: **SL-156-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166086
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL156 SDG#: DE040-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	contain 2,4-DP. This is due to the homogeneity of the sample. The hold time had expired prior to the reextraction so all results are reported from the original extract.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.4	U	1.4	3.6	20
01363	Alpha BHC	319-84-6	0.73	U	0.73	3.6	20
01363	Beta BHC	319-85-7	1.3	U	1.3	3.6	20
01363	Gamma BHC - Lindane	58-89-9	0.73	U	0.73	3.6	20
01363	Chlordane	57-74-9	17	U	17	73	20
01363	p,p-DDD	72-54-8	1.4	U	1.4	7.3	20
01363	p,p-DDE	72-55-9	8.4	U	8.4	8.4	20
01363	p,p-DDT	50-29-3	20	U	20	20	20
01363	Delta BHC	319-86-8	0.77	U	0.77	3.6	20
01363	Dieldrin	60-57-1	4.5	U	4.5	7.3	20
01363	Endosulfan I	959-98-8	0.95	U	0.95	3.6	20
01363	Endosulfan II	33213-65-9	1.4	U	1.4	7.3	20
01363	Endosulfan Sulfate	1031-07-8	5.6	U	5.6	7.3	20
01363	Endrin	72-20-8	1.4	U	1.4	7.3	20
01363	Endrin Aldehyde	7421-93-4	1.4	U	1.4	7.3	20
01363	Endrin Ketone	53494-70-5	1.4	U	1.4	7.3	20
01363	Heptachlor	76-44-8	2.1	U	2.1	3.6	20
01363	Heptachlor Epoxide	1024-57-3	16	U	16	16	20
01363	Methoxychlor	72-43-5	7.3	U	7.3	36	20
01363	Mirex	2385-85-5	1.4	U	1.4	7.3	20
01363	Toxaphene	8001-35-2	47	U	47	140	20
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	35	10
10225	Aroclor 5442	12642-23-8	11	U	11	35	10
10225	Aroclor 5460	11126-42-4	36		11	35	10
10225	PCB-1016	12674-11-2	3.5	U	3.5	18	10
10225	PCB-1221	11104-28-2	5.4	U	5.4	18	10
10225	PCB-1232	11141-16-5	5.6	U	5.6	18	10
10225	PCB-1242	53469-21-9	5.4	U	5.4	18	10
10225	PCB-1248	12672-29-6	280		3.5	18	10
10225	PCB-1254	11097-69-1	350		3.5	18	10
10225	PCB-1260	11096-82-5	50		3.5	18	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-156-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166086
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL156 SDG#: DE040-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	3.5	U	3.5	18	10
10225	PCB-1268	11100-14-4	3.5	U	3.5	18	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		5.35	21.3	1
07914	Boron	7440-42-8	7.79		0.946	5.32	1
01650	Calcium	7440-70-2	3,270		6.52	21.3	1
01654	Iron	7439-89-6	22,300		5.01	21.3	1
01656	Lithium	7439-93-2	19.5		0.23	2.1	1
01657	Magnesium	7439-95-4	4,010		2.70	10.6	1
06958	Manganese	7439-96-5	371		0.0830	0.532	1
10145	Phosphorus	7723-14-0	310		0.596	10.6	1
01662	Potassium	7440-09-7	3,620		19.1	53.2	1
01667	Sodium	7440-23-5	110		39.7	106	1
07968	Strontium	7440-24-6	22.1		0.0659	0.532	1
06969	Tin	7440-31-5	2.51	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,340		0.404	1.06	1
10146	Zirconium	7440-67-7	2.60	J	0.893	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0638	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.15		0.0638	0.425	2
06126	Barium	7440-39-3	96.7		0.115	0.425	2
06127	Beryllium	7440-41-7	0.551		0.0170	0.106	2
06128	Cadmium	7440-43-9	4.35		0.0383	0.106	2
06131	Chromium	7440-47-3	25.9		0.128	0.425	2
06132	Cobalt	7440-48-4	5.49		0.0213	0.106	2
06133	Copper	7440-50-8	18.5		0.0702	0.425	2
06135	Lead	7439-92-1	43.0		0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.983		0.0532	0.106	2
06139	Nickel	7440-02-0	14.6		0.106	0.425	2
06141	Selenium	7782-49-2	0.0985	J	0.0425	0.425	2
06142	Silver	7440-22-4	0.129		0.0128	0.106	2
06145	Thallium	7440-28-0	0.247		0.0319	0.106	2
06148	Vanadium	7440-62-2	35.9		0.0234	0.106	2
06149	Zinc	7440-66-6	69.1		0.596	3.19	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0880	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-156-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166086
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL156 SDG#: DE040-13

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.6	0.21	1.1	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.		n.a.	440	10.0	10.0	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.03	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.		n.a.	6.9	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 20:12	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 15:17	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 20:54	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 22:53	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 07:29	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/30/2010 18:47	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-156-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166086
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL156 SDG#: DE040-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:35	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:47	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:35	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:47	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:47	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:47	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:35	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:47	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:35	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:47	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205B	01/12/2011 02:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201B	01/07/2011 08:25	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 18:32	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205B	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201B	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-156-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166086
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL156 SDG#: DE040-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-150-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166087
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL150 SDG#: DE040-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	48	J	18	350	1
04688	Fluoranthene	206-44-0	19	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166087
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL150 SDG#: DE040-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	22	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8	5
10138	Acenaphthylene	208-96-8	1.8	J	1.8	8.8	5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8	5
10138	Benzo(a)anthracene	56-55-3	6.6	J	3.5	8.8	5
10138	Benzo(a)pyrene	50-32-8	7.1	J	3.5	8.8	5
10138	Benzo(b)fluoranthene	205-99-2	14		3.5	8.8	5
10138	Benzo(g,h,i)perylene	191-24-2	4.3	J	3.5	8.8	5
10138	Benzo(k)fluoranthene	207-08-9	5.1	J	3.5	8.8	5
10138	Chrysene	218-01-9	11		1.8	8.8	5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8	5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.8	5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8	5
10138	2-Methylnaphthalene	91-57-6	4.5	J	3.5	8.8	5
10138	Naphthalene	91-20-3	24		3.5	8.8	5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8	5
10138	Phenanthrene	85-01-8	7.5	J	3.5	8.8	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	390		80	260	1
10401	MCPP (Mecoprop)	93-65-2	350	U	350	350	1
10401	2,4,5-T	93-76-5	0.18	U	0.18	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-150-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166087
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL150 SDG#: DE040-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.078	J	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.17	1
01363	Chlordane	57-74-9	1.8	U	1.8	3.6	1
01363	p,p-DDD	72-54-8	0.28	U	0.28	0.36	1
01363	p,p-DDE	72-55-9	0.69	U	0.69	0.69	1
01363	p,p-DDT	50-29-3	1.8	U	1.8	1.8	1
01363	Delta BHC	319-86-8	0.059	J	0.038	0.17	1
01363	Dieldrin	60-57-1	0.48	U	0.48	0.48	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.19	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.73	U	0.73	0.73	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	4.4		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	3.9		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.4		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166087
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL150 SDG#: DE040-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,500		5.19	20.6	1
07914	Boron	7440-42-8	5.99		0.918	5.16	1
01650	Calcium	7440-70-2	3,330		6.33	20.6	1
01654	Iron	7439-89-6	25,100		4.86	20.6	1
01656	Lithium	7439-93-2	27.3		0.23	2.1	1
01657	Magnesium	7439-95-4	5,180		2.62	10.3	1
06958	Manganese	7439-96-5	286		0.0805	0.516	1
10145	Phosphorus	7723-14-0	369		0.578	10.3	1
01662	Potassium	7440-09-7	3,360		18.6	51.6	1
01667	Sodium	7440-23-5	117		38.5	103	1
07968	Strontium	7440-24-6	20.1		0.0640	0.516	1
06969	Tin	7440-31-5	2.89	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,260		0.392	1.03	1
10146	Zirconium	7440-67-7	0.993	J	0.867	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0632	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.71		0.0632	0.421	2
06126	Barium	7440-39-3	96.5		0.114	0.421	2
06127	Beryllium	7440-41-7	0.635		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.286		0.0379	0.105	2
06131	Chromium	7440-47-3	34.9		0.126	0.421	2
06132	Cobalt	7440-48-4	6.56		0.0211	0.105	2
06133	Copper	7440-50-8	11.2		0.0695	0.421	2
06135	Lead	7439-92-1	18.1		0.0109	0.211	2
06138	Molybdenum	7439-98-7	0.997		0.0526	0.105	2
06139	Nickel	7440-02-0	21.9		0.105	0.421	2
06141	Selenium	7782-49-2	0.143	J	0.0421	0.421	2
06142	Silver	7440-22-4	0.0714	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.233		0.0316	0.105	2
06148	Vanadium	7440-62-2	43.8		0.0232	0.105	2
06149	Zinc	7440-66-6	91.7		0.589	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0135	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.82	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-150-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166087
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL150 SDG#: DE040-14

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	440	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.69	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 20:46	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 15:49	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 23:20	Sarah M Snyder	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103500020A	12/21/2010 18:28	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 07:43	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/30/2010 20:19	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103500020A	12/17/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:45	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:45	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 13:58	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-150-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166087
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL150 SDG#: DE040-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:45	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 13:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 13:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 13:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 13:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:45	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:45	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 13:58	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 13:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:45	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 13:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205B	01/12/2011 02:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201B	01/07/2011 08:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 18:48	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205B	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201B	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-181-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166088
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL181 SDG#: DE040-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-181-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166088
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL181 SDG#: DE040-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.93	J	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.79	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20	1
10138	Fluoranthene	206-44-0	0.94	J	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.78	J	0.72	1.8	1
10138	Pyrene	129-00-0	0.84	J	0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	6.3	U	6.3	6.3	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	83	U	83	270	1
10401	MCPP (Mecoprop)	93-65-2	330		82	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these

Sample Description: SL-181-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166088
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL181 SDG#: DE040-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	cases, the reporting limits have been raised. The following compound was affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.12	U	0.12	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.37	1
01363	p,p-DDE	72-55-9	0.26	U	0.26	0.37	1
01363	p,p-DDT	50-29-3	0.58	U	0.58	0.58	1
01363	Delta BHC	319-86-8	0.045	J	0.039	0.18	1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.52	U	0.52	0.52	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.40	U	0.40	0.40	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	12		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	6.0		0.36	1.8	1
10225	PCB-1260	11096-82-5	5.7		0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		5.36	21.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166088
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL181 SDG#: DE040-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	6.21		0.948	5.33	1
01650	Calcium	7440-70-2	3,150		6.53	21.3	1
01654	Iron	7439-89-6	20,000		5.02	21.3	1
01656	Lithium	7439-93-2	17.3		0.23	2.1	1
01657	Magnesium	7439-95-4	3,340		2.71	10.7	1
06958	Manganese	7439-96-5	327		0.0831	0.533	1
10145	Phosphorus	7723-14-0	258		0.597	10.7	1
01662	Potassium	7440-09-7	3,310		19.2	53.3	1
01667	Sodium	7440-23-5	102	J	39.7	107	1
07968	Strontium	7440-24-6	25.5		0.0661	0.533	1
06969	Tin	7440-31-5	2.56	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,300		0.405	1.07	1
10146	Zirconium	7440-67-7	2.27	J	0.895	5.33	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.175	J	0.0627	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.38		0.0627	0.418	2
06126	Barium	7440-39-3	113		0.113	0.418	2
06127	Beryllium	7440-41-7	0.656		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.242		0.0376	0.105	2
06131	Chromium	7440-47-3	24.0		0.125	0.418	2
06132	Cobalt	7440-48-4	6.23		0.0209	0.105	2
06133	Copper	7440-50-8	11.3		0.0690	0.418	2
06135	Lead	7439-92-1	12.8		0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.733		0.0523	0.105	2
06139	Nickel	7440-02-0	15.1		0.105	0.418	2
06141	Selenium	7782-49-2	0.147	J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0727	J	0.0125	0.105	2
06145	Thallium	7440-28-0	0.264		0.0314	0.105	2
06148	Vanadium	7440-62-2	40.9		0.0230	0.105	2
06149	Zinc	7440-66-6	58.8		0.585	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0128	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166088
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL181 SDG#: DE040-15

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	436	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.49	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 21:21	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 16:22	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	12/31/2010 23:47	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 07:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/30/2010 20:38	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:48	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:48	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 14:02	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:48	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 14:02	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 14:02	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 14:02	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166088
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL181 SDG#: DE040-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 14:02	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:48	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:48	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 14:02	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 14:02	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 14:02	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/31/2010 07:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205B	01/12/2011 03:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201B	01/07/2011 09:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 19:04	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205B	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201B	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166089
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL136 SDG#: DE040-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-136-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166089
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL136 SDG#: DE040-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.1	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1	5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1	5
10138	Benzo(a)anthracene	56-55-3	6.4	J	3.7	9.1	5
10138	Benzo(a)pyrene	50-32-8	7.8	J	3.7	9.1	5
10138	Benzo(b)fluoranthene	205-99-2	13		3.7	9.1	5
10138	Benzo(g,h,i)perylene	191-24-2	6.8	J	3.7	9.1	5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.1	5
10138	Chrysene	218-01-9	13		1.8	9.1	5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.1	5
10138	Fluoranthene	206-44-0	8.0	J	3.7	9.1	5
10138	Fluorene	86-73-7	3.7	U	3.7	9.1	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.1	5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.1	5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.1	5
10138	Naphthalene	91-20-3	24		3.7	9.1	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.1	5
10138	Phenanthrene	85-01-8	4.4	J	3.7	9.1	5
10138	Pyrene	129-00-0	7.5	J	3.7	9.1	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	150	U	150	270	1
10401	MCPP (Mecoprop)	93-65-2	110	J	82	270	1
10401	2,4,5-T	93-76-5	0.14	J	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

Sample Description: **SL-136-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166089
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL136 SDG#: DE040-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: MCPA.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	2.1	U	2.1	3.7	1
01363	p,p-DDD	72-54-8	0.082	U	0.082	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.71	U	0.71	0.71	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.18	U	0.18	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.30	U	0.30	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.53	U	0.53	0.53	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	7.7		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	9.9		0.36	1.9	1
10225	PCB-1254	11097-69-1	24		0.36	1.9	1
10225	PCB-1260	11096-82-5	12		0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166089
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL136 SDG#: DE040-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.52	21.9	1
07914	Boron	7440-42-8	4.64	J	0.976	5.48	1
01650	Calcium	7440-70-2	4,040		6.72	21.9	1
01654	Iron	7439-89-6	21,400		5.16	21.9	1
01656	Lithium	7439-93-2	17.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,070		2.79	11.0	1
06958	Manganese	7439-96-5	216		0.0855	0.548	1
10145	Phosphorus	7723-14-0	791		0.614	11.0	1
01662	Potassium	7440-09-7	3,240		19.7	54.8	1
01667	Sodium	7440-23-5	209		40.9	110	1
07968	Strontium	7440-24-6	25.0		0.0680	0.548	1
06969	Tin	7440-31-5	2.25	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,360		0.417	1.10	1
10146	Zirconium	7440-67-7	1.39	J	0.921	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0639	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.75		0.0639	0.426	2
06126	Barium	7440-39-3	144		0.115	0.426	2
06127	Beryllium	7440-41-7	0.504		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.351		0.0383	0.106	2
06131	Chromium	7440-47-3	25.0		0.128	0.426	2
06132	Cobalt	7440-48-4	5.60		0.0213	0.106	2
06133	Copper	7440-50-8	11.9		0.0703	0.426	2
06135	Lead	7439-92-1	44.6		0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.477		0.0532	0.106	2
06139	Nickel	7440-02-0	14.5		0.106	0.426	2
06141	Selenium	7782-49-2	0.104	J	0.0426	0.426	2
06142	Silver	7440-22-4	1.06		0.0128	0.106	2
06145	Thallium	7440-28-0	0.241		0.0319	0.106	2
06148	Vanadium	7440-62-2	38.4		0.0234	0.106	2
06149	Zinc	7440-66-6	145		0.596	3.19	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0387	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.4		0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166089
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL136 SDG#: DE040-16

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	406	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.62	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 21:55	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 16:55	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	01/01/2011 00:15	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 08:11	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/30/2010 20:56	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:51	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:51	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 14:06	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:51	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 14:06	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 14:06	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 14:06	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166089
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL136 SDG#: DE040-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 14:06	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:51	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:51	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 14:06	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 14:06	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:51	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 14:06	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/31/2010 07:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205B	01/12/2011 03:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201B	01/07/2011 09:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 19:20	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205B	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201B	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-203-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166090
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL203 SDG#: DE040-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	25	J	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-203-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166090
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL203 SDG#: DE040-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	260		0.73	1.8	1
10138	Acenaphthylene	208-96-8	2.3		0.36	1.8	1
10138	Anthracene	120-12-7	320		0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	410		7.3	18	10
10138	Benzo(a)pyrene	50-32-8	360		7.3	18	10
10138	Benzo(b)fluoranthene	205-99-2	460		7.3	18	10
10138	Benzo(g,h,i)perylene	191-24-2	200		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	220		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	430		3.6	18	10
10138	Dibenz(a,h)anthracene	53-70-3	62		0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.5	20	1
10138	Fluoranthene	206-44-0	1,100		7.3	18	10
10138	Fluorene	86-73-7	190		0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	200		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	38		0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	48		0.73	1.8	1
10138	Naphthalene	91-20-3	50		0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	1,100		7.3	18	10
10138	Pyrene	129-00-0	1,000		7.3	18	10
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	3.7	J	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.47	J	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	22		0.87	1.9	1
10401	MCPA	94-74-6	83	U	83	270	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

The LCS recovery for 2,4-DP is outside the QC limits. Results from the reextraction are within the limits. 2,4-DP was detected in the in the original extracted sample at 20.21 ug/kg. The reextracted sample did not

Sample Description: SL-203-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166090
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL203 SDG#: DE040-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	contain 2,4-DP. This is due to the homogeneity of the sample. The hold time had expired prior to the reextraction so all results are reported from the original extract.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.056	U	0.056	0.18	1
01363	Beta BHC	319-85-7	0.65	U	0.65	1.8	10
01363	Gamma BHC - Lindane	58-89-9	0.059	U	0.059	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	1.0	U	1.0	1.0	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	1.1	U	1.1	1.1	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.17	U	0.17	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	1.6	U	1.6	1.6	1
01363	Endrin Ketone	53494-70-5	0.17	U	0.17	0.37	1
01363	Heptachlor	76-44-8	0.21	U	0.21	0.21	1
01363	Heptachlor Epoxide	1024-57-3	0.070	U	0.070	0.18	1
01363	Methoxychlor	72-43-5	3.7	U	3.7	18	10
01363	Mirex	2385-85-5	2.2	U	2.2	2.2	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.						
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	2.9	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	1.9		0.36	1.9	1
10225	PCB-1260	11096-82-5	2.5		0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-203-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166090
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL203 SDG#: DE040-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		5.22	20.7	1
07914	Boron	7440-42-8	6.14		0.923	5.19	1
01650	Calcium	7440-70-2	3,520		6.36	20.7	1
01654	Iron	7439-89-6	23,900		4.89	20.7	1
01656	Lithium	7439-93-2	21.6		0.23	2.1	1
01657	Magnesium	7439-95-4	4,420		2.64	10.4	1
06958	Manganese	7439-96-5	290		0.0809	0.519	1
10145	Phosphorus	7723-14-0	386		0.581	10.4	1
01662	Potassium	7440-09-7	3,940		18.7	51.9	1
01667	Sodium	7440-23-5	113		38.7	104	1
07968	Strontium	7440-24-6	25.0		0.0643	0.519	1
06969	Tin	7440-31-5	2.62	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,330		0.394	1.04	1
10146	Zirconium	7440-67-7	1.46	J	0.871	5.19	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0641	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.13		0.0641	0.427	2
06126	Barium	7440-39-3	101		0.115	0.427	2
06127	Beryllium	7440-41-7	0.663		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.203		0.0384	0.107	2
06131	Chromium	7440-47-3	25.7		0.128	0.427	2
06132	Cobalt	7440-48-4	6.21		0.0214	0.107	2
06133	Copper	7440-50-8	11.6		0.0705	0.427	2
06135	Lead	7439-92-1	8.50		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.728		0.0534	0.107	2
06139	Nickel	7440-02-0	15.4		0.107	0.427	2
06141	Selenium	7782-49-2	0.112	J	0.0427	0.427	2
06142	Silver	7440-22-4	0.0325	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.264		0.0320	0.107	2
06148	Vanadium	7440-62-2	40.9		0.0235	0.107	2
06149	Zinc	7440-66-6	61.8		0.598	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0451	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-203-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166090
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL203 SDG#: DE040-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	450	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 22:30	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 21:27	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/06/2011 10:26	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	01/01/2011 00:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 08:25	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 08:39	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/30/2010 21:15	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:55	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:55	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 14:10	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-203-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166090
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL203 SDG#: DE040-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:55	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 14:10	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 14:10	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 14:10	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 14:10	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:55	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:55	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 14:10	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 14:10	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:55	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 14:10	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205B	01/12/2011 03:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201B	01/07/2011 10:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243202A	01/19/2011 19:36	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205B	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201B	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-257-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166091
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE040-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	30	J	19	190	1
04688	Benzo(a)pyrene	50-32-8	26	J	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	37	J	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	26	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Chrysene	218-01-9	51	J	19	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	19	370	1
04688	Fluoranthene	206-44-0	50	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-257-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166091
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE040-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenanthrene	85-01-8	51	J	19	190	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	63	J	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3	5
10138	Anthracene	120-12-7	4.1	J	1.9	9.3	5
10138	Benzo(k)fluoranthene	207-08-9	15		3.7	9.3	5
10138	Dibenz(a,h)anthracene	53-70-3	11		3.7	9.3	5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	12		3.7	9.3	5
10138	1-Methylnaphthalene	90-12-0	23		3.7	9.3	5
10138	2-Methylnaphthalene	91-57-6	27		3.7	9.3	5
10138	Naphthalene	91-20-3	39		3.7	9.3	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-257-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166091
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE040-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.056	J	0.038	0.18	1
01363	Beta BHC	319-85-7	0.25		0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.14	U	0.14	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	2.3		0.073	0.38	1
01363	p,p-DDE	72-55-9	1.8	U	1.8	1.8	1
01363	p,p-DDT	50-29-3	1.4	U	1.4	1.4	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.30	U	0.30	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.64	U	0.64	0.64	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.17	J	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	3.0	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.67	J	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.43	21.6	1
07914	Boron	7440-42-8	5.19	J	0.960	5.39	1
01650	Calcium	7440-70-2	2,640		6.61	21.6	1
01654	Iron	7439-89-6	20,000		5.08	21.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-257-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166091
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL257 SDG#: DE040-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	21.7		0.24	2.2	1
01657	Magnesium	7439-95-4	3,840		2.74	10.8	1
06958	Manganese	7439-96-5	255		0.0841	0.539	1
10145	Phosphorus	7723-14-0	317		0.604	10.8	1
01662	Potassium	7440-09-7	2,670		19.4	53.9	1
01667	Sodium	7440-23-5	89.8	J	40.2	108	1
07968	Strontium	7440-24-6	14.9		0.0669	0.539	1
06969	Tin	7440-31-5	3.01	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,160		0.410	1.08	1
10146	Zirconium	7440-67-7	1.26	J	0.906	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.132	J	0.0654	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.80		0.0654	0.436	2
06126	Barium	7440-39-3	69.0		0.118	0.436	2
06127	Beryllium	7440-41-7	0.525		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.179		0.0392	0.109	2
06131	Chromium	7440-47-3	19.3		0.131	0.436	2
06132	Cobalt	7440-48-4	5.17		0.0218	0.109	2
06133	Copper	7440-50-8	7.82		0.0719	0.436	2
06135	Lead	7439-92-1	16.9		0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.572		0.0545	0.109	2
06139	Nickel	7440-02-0	11.8		0.109	0.436	2
06141	Selenium	7782-49-2	0.0807	J	0.0436	0.436	2
06142	Silver	7440-22-4	1.03		0.0131	0.109	2
06145	Thallium	7440-28-0	0.218		0.0327	0.109	2
06148	Vanadium	7440-62-2	33.8		0.0240	0.109	2
06149	Zinc	7440-66-6	81.0		0.610	3.27	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0062	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	450		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-257-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166091
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

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SL257 SDG#: DE040-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 23:04	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 22:00	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	01/01/2011 02:05	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 08:53	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/30/2010 21:33	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 14:58	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 14:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 14:14	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 14:58	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 14:14	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 14:14	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 14:14	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-257-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166091
LLI Group # 1225757
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

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14420 Albemarle Point Place
Suite 210
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SL257 SDG#: DE040-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 14:14	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 14:58	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 14:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 14:14	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 14:14	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 14:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 14:14	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 13:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 13:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 13:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 13:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205B	01/12/2011 03:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201B	01/07/2011 10:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11014243202A	01/19/2011 19:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205B	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201B	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-204-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166092
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE040-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-204-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166092
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE040-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	19	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9	5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9	5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	8.9	5
10138	Benzo(a)pyrene	50-32-8	3.6	U	3.6	8.9	5
10138	Benzo(b)fluoranthene	205-99-2	4.9	J	3.6	8.9	5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	8.9	5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	8.9	5
10138	Chrysene	218-01-9	4.2	J	1.8	8.9	5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	8.9	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6,000		320	960	50
10138	Fluoranthene	206-44-0	8.2	J	3.6	8.9	5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	8.9	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	8.9	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	8.9	5
10138	Naphthalene	91-20-3	24		3.6	8.9	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9	5
10138	Phenanthrene	85-01-8	5.1	J	3.6	8.9	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	26	U	26	77	20
10401	Dalapon	75-99-0	94	U	94	190	20
10401	2,4-DB	94-82-6	13	U	13	36	20
10401	Dicamba	1918-00-9	8.6	U	8.6	26	20
10401	Dinoseb	88-85-7	17	U	17	51	20
10401	2,4-DP (Dichlorprop)	120-36-5	17	U	17	36	20
10401	MCPA	94-74-6	1,600	U	1,600	5,400	20
10401	MCPP (Mecoprop)	93-65-2	1,600	U	1,600	5,400	20
10401	2,4,5-T	93-76-5	1.8	U	1.8	3.6	20
10401	2,4,5-TP	93-72-1	1.6	U	1.6	3.6	20
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.						

Sample Description: SL-204-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166092
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE040-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.35	U	0.35	0.89	5
01363	Alpha BHC	319-84-6	0.30	U	0.30	0.89	5
01363	Beta BHC	319-85-7	0.32	U	0.32	0.89	5
01363	Gamma BHC - Lindane	58-89-9	0.51	U	0.51	0.89	5
01363	Chlordane	57-74-9	4.3	U	4.3	18	5
01363	p,p-DDD	72-54-8	3.0	U	3.0	3.0	5
01363	p,p-DDE	72-55-9	0.38	U	0.38	1.8	5
01363	p,p-DDT	50-29-3	5.1	U	5.1	5.1	5
01363	Delta BHC	319-86-8	0.19	U	0.19	0.89	5
01363	Dieldrin	60-57-1	0.70	U	0.70	1.8	5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.89	5
01363	Endosulfan II	33213-65-9	0.35	U	0.35	1.8	5
01363	Endosulfan Sulfate	1031-07-8	1.4	U	1.4	7.3	20
01363	Endrin	72-20-8	0.35	U	0.35	1.8	5
01363	Endrin Aldehyde	7421-93-4	1.4	U	1.4	7.3	20
01363	Endrin Ketone	53494-70-5	1.4	U	1.4	7.3	20
01363	Heptachlor	76-44-8	0.32	U	0.32	0.89	5
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.89	5
01363	Methoxychlor	72-43-5	7.3	U	7.3	36	20
01363	Mirex	2385-85-5	2.3	U	2.3	7.3	20
01363	Toxaphene	8001-35-2	12	U	12	35	5

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. Endosulfan II is accepted based on this allowance.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	3.8		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	1.1	J	0.35	1.8	1
10225	PCB-1254	11097-69-1	2.3		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.0		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		5.34	21.2	1
07914	Boron	7440-42-8	4.93	J	0.944	5.31	1
01650	Calcium	7440-70-2	3,330		6.51	21.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-204-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166092
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE040-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,200		5.00	21.2	1
01656	Lithium	7439-93-2	20.0		0.23	2.1	1
01657	Magnesium	7439-95-4	3,900		2.70	10.6	1
06958	Manganese	7439-96-5	262		0.0828	0.531	1
10145	Phosphorus	7723-14-0	356		0.594	10.6	1
01662	Potassium	7440-09-7	2,590		19.1	53.1	1
01667	Sodium	7440-23-5	117		39.6	106	1
07968	Strontium	7440-24-6	24.4		0.0658	0.531	1
06969	Tin	7440-31-5	2.56	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,200		0.403	1.06	1
10146	Zirconium	7440-67-7	3.02	J	0.891	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0824	J	0.0618	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.59		0.0618	0.412	2
06126	Barium	7440-39-3	90.9		0.111	0.412	2
06127	Beryllium	7440-41-7	0.534		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.190		0.0371	0.103	2
06131	Chromium	7440-47-3	18.5		0.124	0.412	2
06132	Cobalt	7440-48-4	5.99		0.0206	0.103	2
06133	Copper	7440-50-8	8.06		0.0680	0.412	2
06135	Lead	7439-92-1	7.61		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.652		0.0515	0.103	2
06139	Nickel	7440-02-0	11.7		0.103	0.412	2
06141	Selenium	7782-49-2	0.146	J	0.0412	0.412	2
06142	Silver	7440-22-4	0.0326	J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.211		0.0309	0.103	2
06148	Vanadium	7440-62-2	32.6		0.0227	0.103	2
06149	Zinc	7440-66-6	60.7		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0060	J	0.0028	0.0994	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	459		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-204-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166092
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE040-19*

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.40	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLG026	01/16/2011 23:38	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/05/2011 22:32	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLJ026	01/06/2011 10:58	Joseph M Gambler	50
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLJ026	12/21/2010 06:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLG026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	01/10/2011 02:09	John W Perkins	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/13/2011 09:21	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550008A	01/14/2011 21:44	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540020A	12/30/2010 21:52	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550008A	12/21/2010 15:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540020A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708001	12/30/2010 15:02	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708001	12/30/2010 15:02	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708001	12/29/2010 14:17	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708001	12/30/2010 15:02	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708001	12/29/2010 14:17	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-204-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166092
LLI Group # 1225757
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 01/24/2011 11:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE040-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103545708001	12/29/2010 14:17	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708001	12/29/2010 14:17	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708001	12/29/2010 14:17	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708001	12/30/2010 15:02	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708001	12/30/2010 15:02	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708001	12/29/2010 14:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708001	12/29/2010 14:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708001	12/30/2010 15:02	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708001	12/29/2010 14:17	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026001D	12/30/2010 14:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026001C	12/30/2010 14:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026001B	12/30/2010 14:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026001A	12/30/2010 14:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103545711001	12/21/2010 06:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708001	12/20/2010 12:10	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026001	12/20/2010 12:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711001	12/20/2010 16:08	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008205B	01/12/2011 04:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11006006201B	01/07/2011 11:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11014243202A	01/19/2011 12:36	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008205B	01/08/2011 13:50	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	110006006201B	01/06/2011 00:00	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	3	11014243202A	01/14/2011 19:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10354SLG026	Sample number(s): 6166074-6166080,6166082-6166092									
Aniline	170 U		170.	500	ug/kg	58		10-107		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	86		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	83		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	86		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	85		67-125		
Benzoic acid	170 U		170.	500	ug/kg	85		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	87		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	89		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	97		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	92		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	66		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	83		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	86		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	52		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	99		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	81		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	105		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	87		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	89		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	107		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	83		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	82		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	78		35-106		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	98		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 10354SLJ026	Sample number(s): 6166074-6166080,6166082-6166092									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	83		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	87		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	90		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	83		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	83		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	85		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	85		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	85		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	81		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	78		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	86		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	96		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	91		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	82		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	92		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	85		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	85		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	86		56-121		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103610014A	Sample number(s): 6166074-6166080,6166082-6166092									
2,4-D	1.2	U	1.2	3.6	ug/kg	105		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	46		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	109		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	94		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	157*		60-141		
MCPA	76	U	76.	250	ug/kg	91		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	88		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	110		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	92		48-138		
Batch number: 103500020A	Sample number(s): 6166077,6166087									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 103540020A	Sample number(s): 6166074-6166080,6166082-6166092									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	90	79	75-125	13	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	120		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	125		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103550008A	Sample number(s): 6166074-6166080,6166082-6166092									
Aldrin	0.066	U	0.066	0.17	ug/kg	55		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	67		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	72		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	76		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	84		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	71		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	118		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	88		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	85		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	60*		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	92		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	61		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	90		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	88		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	68		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	103		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103541026001A	Sample number(s): 6166074-6166080,6166082-6166092									
Antimony	0.0583	U	0.0583	0.194	mg/kg	111		11-208		
Arsenic	0.0583	U	0.0583	0.388	mg/kg	99		80-120		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	106		82-118		
Cadmium	0.0350	U	0.0350	0.0971	mg/kg	102		82-118		
Chromium	0.117	U	0.117	0.388	mg/kg	111		80-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	102		82-118		
Copper	0.0641	U	0.0641	0.388	mg/kg	105		80-120		
Lead	0.0101	U	0.0101	0.194	mg/kg	102		80-120		
Nickel	0.0971	U	0.0971	0.388	mg/kg	106		80-120		
Silver	0.0117	U	0.0117	0.0971	mg/kg	103		66-134		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	103		81-119		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	105		90-110		
Zinc	0.544	U	0.544	2.91	mg/kg	101		78-122		
Batch number: 103541026001B	Sample number(s): 6166074-6166080,6166082-6166092									
Selenium	0.0388	U	0.0388	0.388	mg/kg	107		79-122		
Batch number: 103541026001C	Sample number(s): 6166074-6166080,6166082-6166092									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	109		78-122		
Batch number: 103541026001D	Sample number(s): 6166074-6166080,6166082-6166092									
Barium	0.105	U	0.105	0.388	mg/kg	105		79-121		
Batch number: 103545708001	Sample number(s): 6166074-6166080,6166082-6166092									
Aluminum	15.3	J	4.93	19.6	mg/kg	99		61-110		
Boron	0.873	U	0.873	4.90	mg/kg	95		78-110		
Calcium	13.6	J	6.01	19.6	mg/kg	93		88-110		
Iron	5.87	J	4.62	19.6	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	91		80-120		
Magnesium	2.49	U	2.49	9.80	mg/kg	90		82-110		
Manganese	0.0765	U	0.0765	0.490	mg/kg	101		81-119		
Phosphorus	2.33	J	0.549	9.80	mg/kg	94		80-120		
Potassium	17.6	U	17.6	49.0	mg/kg	100		78-110		
Sodium	36.6	U	36.6	98.0	mg/kg	99		87-110		
Strontium	0.0814	J	0.0608	0.490	mg/kg	96		79-121		
Tin	1.32	J	0.980	9.80	mg/kg	100		90-114		
Titanium	0.373	U	0.373	0.980	mg/kg	110		80-120		
Zirconium	0.824	U	0.824	4.90	mg/kg	95		80-120		
Batch number: 103545711001	Sample number(s): 6166074-6166080,6166082-6166092									
Mercury	0.0027	U	0.0027	0.0925	mg/kg	91		88-123		
Batch number: 11006006201A	Sample number(s): 6166074-6166080,6166082-6166084									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11006006201B	Sample number(s): 6166085-6166092									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11008008205A	Sample number(s): 6166074-6166080,6166082-6166084									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11008008205B	Sample number(s): 6166085-6166092									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11014243202A	Sample number(s): 6166074-6166080,6166082-6166092									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 10351039402A	Sample number(s): 6166074-6166080,6166082-6166083									
22a pH by 9045C						100		95-105		
Batch number: 10351039402B	Sample number(s): 6166084-6166092									
22a pH by 9045C						100		95-105		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10351182102A	Sample number(s): 6166074-6166080,6166082-6166083								
Oxidation Reduction Potential					100		98-102		
Batch number: 10351182102B	Sample number(s): 6166084-6166092								
Oxidation Reduction Potential					100		98-102		
Batch number: 10356162402A	Sample number(s): 6166074-6166079								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10356162402B	Sample number(s): 6166080,6166082-6166092								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10354SLG026	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166074								
Aniline	0*	58	14-114	200*	30				
Anthracene	101	103	75-115	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	104	106	65-122	2	30				
Benzo(a)pyrene	86	94	57-126	8	30				
Benzo(b)fluoranthene	90	94	59-125	4	30				
Benzo(g,h,i)perylene	84	91	59-127	8	30				
Benzo(k)fluoranthene	85	92	56-132	8	30				
Benzoic acid	178*	175*	10-173	2	30				
Benzyl alcohol	94	101	55-123	7	30				
4-Bromophenyl-phenylether	101	103	67-129	1	30				
Butylbenzylphthalate	134	142*	73-134	6	30				
Di-n-butylphthalate	100	107	67-123	6	30				
Carbazole	98	105	64-120	7	30				
4-Chloro-3-methylphenol	98	104	53-130	7	30				
4-Chloroaniline	69	82	23-95	17	30				
bis(2-Chloroethoxy)methane	100	108	54-117	7	30				
bis(2-Chloroethyl)ether	107	100	60-116	6	30				
bis(2-Chloroisopropyl)ether	106	107	55-142	1	30				
2-Chloronaphthalene	84	96	50-141	13	30				
2-Chlorophenol	103	108	73-121	5	30				
4-Chlorophenyl-phenylether	95	99	64-119	4	30				
Chrysene	100	109	62-128	8	30				
Dibenzofuran	97	102	71-112	5	30				
1,2-Dichlorobenzene	97	100	66-108	3	30				
1,3-Dichlorobenzene	95	96	63-109	1	30				
1,4-Dichlorobenzene	95	100	53-113	5	30				
3,3'-Dichlorobenzidine	57	77	25-123	29	30				
2,4-Dichlorophenol	99	104	78-117	5	30				
Diethylphthalate	94	100	66-118	6	30				
2,4-Dimethylphenol	104	107	56-130	2	30				
3,5-Dimethylphenol	146*	150*	70-130	3	30				
Dimethylphthalate	95	103	64-118	8	30				
4,6-Dinitro-2-methylphenol	78	79	10-148	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	79	83	57-114	5	30				
2,6-Dinitrotoluene	94	98	69-123	4	30				
1,2-Diphenylhydrazine	118	124	71-129	5	30				
bis(2-Ethylhexyl)phthalate	132*	138*	63-122	5	30				
Fluoranthene	90	94	59-122	4	30				
Hexachlorobenzene	97	102	61-111	5	30				
Hexachlorobutadiene	107	107	62-120	0	30				
Hexachlorocyclopentadiene	0*	0*	10-153	0	30				
Hexachloroethane	83	82	57-109	2	30				
Indeno(1,2,3-cd)pyrene	87	88	61-126	1	30				
Isophorone	99	105	51-118	6	30				
1-Methylnaphthalene	98	103	73-112	4	30				
2-Methylnaphthalene	97	96	76-114	1	30				
2-Methylphenol	93	98	47-142	5	30				
4-Methylphenol	99	100	55-126	1	30				
2-Nitroaniline	111	132*	67-125	17	30				
3-Nitroaniline	91	107	59-122	16	30				
4-Nitroaniline	95	110	52-112	15	30				
Nitrobenzene	102	106	51-114	4	30				
2-Nitrophenol	83	83	74-115	0	30				
4-Nitrophenol	90	101	39-133	11	30				
N-Nitroso-di-n-propylamine	99	105	60-116	6	30				
N-Nitrosodiphenylamine	108	114	86-145	5	30				
Di-n-octylphthalate	146*	158*	56-126	8	30				
Pentachlorophenol	82	83	17-149	2	30				
Phenanthrene	102	105	65-125	3	30				
Phenol	99	101	58-126	1	30				
Pyrene	119	128	51-151	7	30				
1,2,4-Trichlorobenzene	102	110	72-115	8	30				
2,4,5-Trichlorophenol	107	109	34-139	2	30				
2,4,6-Trichlorophenol	105	114	49-140	8	30				
Batch number: 10354SLJ026	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166074								
Acenaphthene	127*	109*	63-105	15	30				
Acenaphthylene	122	108	55-126	12	30				
Anthracene	138*	115	46-136	18	30				
Benzo(a)anthracene	206*	176*	39-144	16	30				
Benzo(a)pyrene	132	116	34-156	13	30				
Benzo(b)fluoranthene	188*	125	43-155	29	30				
Benzo(g,h,i)perylene	47	57	33-141	8	30				
Benzo(k)fluoranthene	125	108	42-144	15	30				
Butylbenzylphthalate	0*	0*	73-140	0	30				
Di-n-butylphthalate	0*	0*	78-160	0	30				
Chrysene	316*	114	29-156	69*	30				
Dibenz(a,h)anthracene	80	91	41-130	13	30				
Diethylphthalate	0*	0*	87-131	0	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	0*	0*	39-167	0	30				
Fluoranthene	924*	169*	26-166	125*	30				
Fluorene	125*	121	45-121	3	30				
Indeno(1,2,3-cd)pyrene	81	91	21-143	12	30				
1-Methylnaphthalene	177*	145*	72-123	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylnaphthalene	136*	120	28-121	5	30				
Naphthalene	93 (2)	102 (2)	61-102	2	30				
N-Nitrosodimethylamine	90	92	48-113	2	30				
Di-n-octylphthalate	0*	0*	40-192	0	30				
Phenanthrene	515*	198*	12-165	47*	30				
Pyrene	668*	137	15-153	113*	30				
Batch number: 103610014A	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166074								
2,4-D	82	88	28-161	7	35				
Dalapon	46	48	12-86	4	50				
2,4-DB	14*	22	20-170	8	50				
Dicamba	99	106	33-120	7	50				
Dinoseb	16	13	1-44	17	35				
2,4-DP (Dichlorprop)	82	121	55-141	38	50				
MCPA	114	92	31-184	18	50				
MCPP (Mecoprop)	52	43	16-174	19	50				
2,4,5-T	73	78	25-132	5	35				
2,4,5-TP	39	39	10-183	0	35				
Batch number: 103500020A	Sample number(s): 6166077,6166087 UNSPK: P164948								
6a Perchlorate EPA 6850	100	100	80-120	0	20				
Batch number: 103540020A	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166074								
PCB-1016	134	172*	29-146	25	50				
PCB-1260	121	94	39-149	25	50				
Batch number: 103550008A	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166075								
Aldrin	0*	0*	16-126	0	50				
Alpha BHC	0*	0*	10-129	0	50				
Beta BHC	0*	0*	14-147	0	50				
Gamma BHC - Lindane	0*	0*	10-140	0	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	-39337 (2)	-29706 (2)	18-161	53*	50				
p,p-DDT	-27483 (2)	-17011 (2)	10-176	39	50				
Delta BHC	0*	0*	23-140	0	50				
Dieldrin	583*	621*	19-154	6	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	0*	0*	28-154	0	50				
Endosulfan Sulfate	0*	398*	21-160	200*	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	0*	576*	10-148	200*	35				
Endrin Ketone	0*	0*	22-165	0	50				
Heptachlor	0*	0*	13-126	0	50				
Heptachlor Epoxide	0*	0*	13-157	0	50				
Methoxychlor	227*	0*	32-147	200*	50				
Batch number: 103541026001A	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166075 BKG: 6166075								
Antimony	48*	49*	75-125	3	20	0.131 J	0.0606 J	74* (1)	20
Arsenic	106	141*	75-125	14	20	2.62	2.80	6	20
Beryllium	99	96	75-125	2	20	0.326	0.358	9 (1)	20
Cadmium	95	99	75-125	5	20	0.130	0.123	5 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	143*	134*	75-125	3	20	13.1	21.8	50*	20
Cobalt	89	86	75-125	2	20	3.50	3.77	7	20
Copper	102	91	75-125	6	20	6.16	7.26	16	20
Lead	323*	91	75-125	44*	20	9.30	8.23	12	20
Nickel	110	112	75-125	1	20	10.8	14.4	28*	20
Silver	97	98	75-125	2	20	0.0569 J	0.0505 J	12 (1)	20
Thallium	92	86	75-125	4	20	0.137	0.133	3 (1)	20
Vanadium	147*	118	75-125	6	20	28.0	29.3	4	20
Zinc	536 (2)	104 (2)	75-125	36*	20	85.3	90.8	6	20
Batch number: 103541026001B	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166075 BKG: 6166075								
Selenium	93	92	75-125	0	20	0.117 J	0.106 J	10 (1)	20
Batch number: 103541026001C	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166075 BKG: 6166075								
Molybdenum	96	98	75-125	3	20	0.391	0.494	23* (1)	20
Batch number: 103541026001D	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166075 BKG: 6166075								
Barium	212 (2)	93 (2)	75-125	17	20	54.3	58.4	7	20
Batch number: 103545708001	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166074 BKG: 6166074								
Aluminum	933 (2)	702 (2)	75-125	3	20	12,400	13,900	12	20
Boron	98	98	84-115	1	20	6.17	6.01	3 (1)	20
Calcium	214 (2)	96 (2)	75-125	14	20	2,710	2,750	1	20
Iron	889 (2)	-1018 (2)	75-125	10	20	17,900	24,400	31*	20
Lithium	97	86	82-114	9	20	13.8	18.0	27*	20
Magnesium	199 (2)	-40 (2)	75-125	13	20	3,280	4,010	20	20
Manganese	193 (2)	80 (2)	75-125	21*	20	195	305	44*	20
Phosphorus	250*	57*	75-125	37*	20	354	432	20	20
Potassium	137*	117	75-125	5	20	2,240	2,370	6	20
Sodium	106	108	75-125	2	20	115	108	6 (1)	20
Strontium	84	84	75-115	1	20	23.7	17.4	31*	20
Tin	94	92	80-110	1	20	2.31 J	2.57 J	11 (1)	20
Titanium	239 (2)	141 (2)	75-125	7	20	1,070	1,120	5	20
Zirconium	98	90	75-125	7	20	2.09 J	2.51 J	18 (1)	20
Batch number: 103545711001	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166074 BKG: 6166074								
Mercury	101	101	65-135	3	20	0.0028 U	0.0029 J	200* (1)	20
Batch number: 11006006201A	Sample number(s): 6166074-6166080,6166082-6166084 UNSPK: 6166074 BKG: 6166074								
7a Perchlorate EPA 314.0	92		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11006006201B	Sample number(s): 6166085-6166092 UNSPK: 6166085 BKG: 6166085								
7a Perchlorate EPA 314.0	82		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11008008205A	Sample number(s): 6166074-6166080,6166082-6166084 UNSPK: 6166074 BKG: 6166074								
11a Anions by 300.0 - Fluoride	94		80-120			0.80 U	1.4	200* (1)	20
Batch number: 11008008205B	Sample number(s): 6166085-6166092 UNSPK: 6166085 BKG: 6166085								
11a Anions by 300.0 - Fluoride	100		80-120			1.2	2.0	51* (1)	20
Batch number: 11014243202A	Sample number(s): 6166074-6166080,6166082-6166092 UNSPK: 6166092 BKG: 6166092								
3a Cr VI by EPA 7199	106		75-125			0.27 J	0.78 J	99* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10351039402A	Sample number(s): 6166074-6166080,6166082-6166083					BKG: 6166074			
22a pH by 9045C						6.86	6.86	0	1
Batch number: 10351039402B	Sample number(s): 6166084-6166092					BKG: P166190			
22a pH by 9045C						6.85	6.89	1	1
Batch number: 10351182102A	Sample number(s): 6166074-6166080,6166082-6166083					BKG: 6166074			
Oxidation Reduction Potential						403	405	0	6
Batch number: 10351182102B	Sample number(s): 6166084-6166092					BKG: P166193			
Oxidation Reduction Potential						403	414	3	6
Batch number: 10356162402A	Sample number(s): 6166074-6166079					BKG: 6166079			
28a Moisture Content by 160.3						5.1	5.2	2	20
Batch number: 10356162402B	Sample number(s): 6166080,6166082-6166092					BKG: 6166080			
28a Moisture Content by 160.3						9.9	9.5	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10354SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6166074	97	96	90	86	95	96
6166075	95	90	83	80	94	94
6166076	93	92	95	85	94	94
6166077	94	93	93	84	94	88
6166078	89	86	92	80	89	88
6166079	93	91	93	79	91	90
6166080	90	88	96	80	92	92
6166082	95	93	97	82	94	95
6166083	93	93	93	83	93	87
6166084	92	87	95	81	93	93
6166085	89	88	83	80	87	87
6166086	90	88	90	83	91	94
6166087	91	89	95	85	96	91
6166088	88	86	91	79	91	93
6166089	88	88	84	80	89	85
6166090	91	87	90	81	93	95
6166091	93	90	98	86	99	92
6166092	91	88	95	84	96	96
Blank	83	85	87	79	93	84
LCS	90	91	103	91	93	85
MS	92	90	90	94	96	96
MSD	96	91	93	95	99	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Surrogate Quality Control

Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10354SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6166074	111	88	84
6166075	120	88	92
6166076	92	84	82
6166077	79	65	59
6166078	90	83	69
6166079	90	81	84
6166080	90	81	84
6166082	90	85	86
6166083	88	81	78
6166084	88	80	81
6166085	90	81	79
6166086	85	74	88
6166087	81	79	73
6166088	87	82	87
6166089	65	61	61
6166090	87	81	83
6166091	88	74	68
6166092	83	78	75
Blank	89	79	88
LCS	100	69	83
MS	121	77	87
MSD	108	90	85
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103540020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6166074	80	140*
6166075	17*	21*
6166076	115	119
6166077	98	145*
6166078	161*	192*
6166079	76	106
6166080	105	119
6166082	106	94
6166083	138	188*
6166084	148*	143*
6166085	135	121*
6166086	89	81
6166087	101	93
6166088	125	117
6166089	100	84
6166090	130	95
6166091	114	100
6166092	90	92
Blank	128	133*
LCS	110	113
LCSD	105	120
MS	89	126*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Surrogate Quality Control

MSD	73	99
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103550008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6166074	56	76
6166075	73	0*
6166076	68	31
6166077	115	0*
6166078	65	159*
6166079	91	0*
6166080	61	217*
6166082	58	30
6166083	64	53
6166084	70	59
6166085	49*	84
6166086	63	0*
6166087	55	23
6166088	54	77
6166089	55	30
6166090	41*	0*
6166091	72	69
6166092	60	0*
Blank	61	110
LCS	51	50
MS	63	779*
MSD	63	0*
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103610014A

	2,4-Dichlorophenylacetic acid
6166074	94
6166075	115
6166076	100
6166077	85
6166078	111
6166079	96
6166080	119
6166082	98
6166083	95
6166084	99
6166085	113
6166086	67
6166087	78
6166088	106
6166089	98
6166090	91
6166091	89
6166092	0*
Blank	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225757
Reported: 01/24/11 at 11:23 AM

Surrogate Quality Control

LCS	92
MS	104
MSD	97
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1225757 61666074-92

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure DI and DUP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-303-SA5B-SS-0.0-0.5	12.15.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-262-SA5B-SS-0.0-0.5MS	12.15.10	0925	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										MS/MSD
SL-302-SA5B-SS-0.0-0.5	12.15.10	0949	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
DUP06-SA5B-QC-121510	12.15.10	0935	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										DUP
SL-263-SA5B-SS-0.0-0.5	12.15.10	0907	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-264-SA5B-SS-0.0-0.5	12.15.10	0905	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-027-SA5B-SB-4.0-5.0	12.15.10	1019	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-027-SA5B-SB-9.0-10.0	12.15.10	1025	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-027-SA5B-SB-4.5	12.15.10	1015	soil	none	5 Encore Samplers	X	X		X																				
SL-027-SA5B-SB-8.5	12.15.10	1023	soil	none	5 Encore Samplers	X	X		X																				
TB-121510	12.15.10	0800	water	HCl	3-40 mL VOA vials	X	X		X																				trip blank
EB03-SA5B-121510	12.15.10	1215	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB03-SA5B-121510	12.15.10	1215	water	none	1-500 ml poly							X	X			X									X				rinsate
EB03-SA5B-121510	12.15.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB15-SA5B-121510	12.15.10	1230	water	none	5-1 liter ambers			X						X	X			X	X										rinsate
EB15-SA5B-121510	12.15.10	1230	water	none	1-500 ml poly							X	X			X									X				rinsate
EB15-SA5B-121510	12.15.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB15-SA5B-121510	12.15.10	1230	water	HCl	6-40 mL clear VOA vials	X	X																						rinsate
SL-132-SA5B-SS-0.0-0.5	12.15.10	1105	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-133-SA5B-SS-0.0-0.5	12.15.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-131-SA5B-SS-0.0-0.5	12.15.10	1125	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-135-SA5B-SS-0.0-0.5	12.15.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-134-SA5B-SS-0.0-0.5	12.15.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-298-SA5B-SB-4.0-5.0	12.15.10	1425	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-298-SA5B-SB-9.0-10.0	12.15.10	1435	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-298-SA5B-SB-4.5	12.15.10	1420	soil	none	5 Encore Samplers	X	X		X																				
SL-298-SA5B-SB-9.5	12.15.10	1430	soil	none	5 Encore Samplers	X	X		X																				
SED-021-SIV-SD-0.0-0.5	12.15.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-018-SIV-SD-0.0-0.5	12.15.10	1231	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
~~SED-019-SIV-SD-0.0-0.5~~	~~12.15.10~~	~~1153~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~									VOIDED
SED-016-SIV-SD-0.0-0.5	12.15.10	1341	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-153-SA5B-SS-0.0-0.5	12.15.10	1408	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-155-SA5B-SS-0.0-0.5	12.15.10	1341	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-149-SA5B-SS-0.0-0.5	12.15.10	1550	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-156-SA5B-SS-0.0-0.5	12.15.10	1332	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-150-SA5B-SS-0.0-0.5	12.15.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-181-SA5B-SS-0.0-0.5	12.15.10	1526	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-136-SA5B-SS-0.0-0.5	12.15.10	1350	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-203-SA5B-SS-0.0-0.5	12.15.10	1500	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-257-SA5B-SS-0.0-0.5	12.15.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-204-SA5B-SS-0.0-0.5	12.15.10	1551	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-297-SA5B-4.0-5.0	12.15.10	1600	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-297-SA5B-7.0-8.0	12.15.10	1606	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-297-SA5B-4.5	12.15.10	1558	soil	none	5 Encore Samplers	X	X		X																				
SL-297-SA5B-7.5	12.15.10	1603	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by: (Signature) — Date/Time: 12.15.10 | 1700 — Received for Laboratory by: (Signature) — Date/Time: 12/16/10 1000

Received by: (Signature) — Date/Time — Airbill No.: 00732892

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 6

SED-019-SIV-SD-0.0-0.5 was voided on 12/16/10 per PB.

NLM 12/30/10

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/16/2010
Group Number: 1225765
SDG: DX024
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-132-SA5B-SS-0.0-0.5 Grab Soil	6166113
SL-133-SA5B-SS-0.0-0.5 Grab Soil	6166114
SL-131-SA5B-SS-0.0-0.5 Grab Soil	6166115
SL-135-SA5B-SS-0.0-0.5 Grab Soil	6166116
SL-134-SA5B-SS-0.0-0.5 Grab Soil	6166117
SED-021-SIV-SD-0.0-0.5 Grab Soil	6166118
SED-018-SIV-SD-0.0-0.5 Grab Soil	6166119
SED-016-SIV-SD-0.0-0.5 Grab Soil	6166121
SL-153-SA5B-SS-0.0-0.5 Grab Soil	6166122
SL-155-SA5B-SS-0.0-0.5 Grab Soil	6166123
SL-149-SA5B-SS-0.0-0.5 Grab Soil	6166124
SL-156-SA5B-SS-0.0-0.5 Grab Soil	6166125
SL-150-SA5B-SS-0.0-0.5 Grab Soil	6166126
SL-181-SA5B-SS-0.0-0.5 Grab Soil	6166127
SL-136-SA5B-SS-0.0-0.5 Grab Soil	6166128
SL-203-SA5B-SS-0.0-0.5 Grab Soil	6166129
SL-257-SA5B-SS-0.0-0.5 Grab Soil	6166130
SL-204-SA5B-SS-0.0-0.5 Grab Soil	6166131

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166113
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-132 SDG#: DX024-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166113
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-132 SDG#: DX024-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0517	JQ	0.0185	1.13	1
11031	12378-PeCDD	40321-76-4	0.325	JQ	0.0500	5.63	1
11031	123478-HxCDD	39227-28-6	0.574	JB	0.0409	5.63	1
11031	123678-HxCDD	57653-85-7	1.04	JBQ	0.0412	5.63	1
11031	123789-HxCDD	19408-74-3	0.775	JB	0.0358	5.63	1
11031	1234678-HpCDD	35822-46-9	23.9	B	0.0765	5.63	1
11031	OCDD	3268-87-9	234	B	0.0778	11.3	1
11031	2378-TCDF	51207-31-9	1.02	JB	0.0666	1.13	1
11031	12378-PeCDF	57117-41-6	0.337	JB	0.0609	5.63	1
11031	23478-PeCDF	57117-31-4	0.851	JB	0.0586	5.63	1
11031	123478-HxCDF	70648-26-9	0.469	JB	0.0358	5.63	1
11031	123678-HxCDF	57117-44-9	0.289	JBQ	0.0346	5.63	1
11031	123789-HxCDF	72918-21-9	0.180	JBQ	0.0318	5.63	1
11031	234678-HxCDF	60851-34-5	0.343	JB	0.0319	5.63	1
11031	1234678-HpCDF	67562-39-4	3.59	JB	0.0364	5.63	1
11031	1234789-HpCDF	55673-89-7	0.285	JB	0.0456	5.63	1
11031	OCDF	39001-02-0	11.4	B	0.0537	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	58	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	54	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	51	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	35	17 - 157
13C12-1278-TCDD (CRS)	57	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166113
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-132 SDG#: DX024-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA5B-SS-0.0-0.5

LLI Sample # SW 6166113
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:05

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-132 SDG#: DX024-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 09:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166114
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-133 SDG#: DX024-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166114
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-133 SDG#: DX024-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.161	J	0.0282	1.07	1
11031	12378-PeCDD	40321-76-4	0.501	J	0.0472	5.36	1
11031	123478-HxCDD	39227-28-6	0.654	JB	0.0491	5.36	1
11031	123678-HxCDD	57653-85-7	1.27	JB	0.0542	5.36	1
11031	123789-HxCDD	19408-74-3	1.12	JB	0.0560	5.36	1
11031	1234678-HpCDD	35822-46-9	31.8	B	0.0843	5.36	1
11031	OCDD	3268-87-9	347	B	0.141	10.7	1
11031	2378-TCDF	51207-31-9	0.610	JB	0.0529	1.07	1
11031	12378-PeCDF	57117-41-6	0.182	JBQ	0.0458	5.36	1
11031	23478-PeCDF	57117-31-4	0.875	JB	0.0441	5.36	1
11031	123478-HxCDF	70648-26-9	0.438	JBQ	0.0380	5.36	1
11031	123678-HxCDF	57117-44-9	0.351	JB	0.0335	5.36	1
11031	123789-HxCDF	72918-21-9	0.233	JB	0.0492	5.36	1
11031	234678-HxCDF	60851-34-5	0.536	JB	0.0385	5.36	1
11031	1234678-HpCDF	67562-39-4	5.61	B	0.0569	5.36	1
11031	1234789-HpCDF	55673-89-7	0.593	JB	0.0779	5.36	1
11031	OCDF	39001-02-0	18.6	B	0.167	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	58	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	44	23 - 140
13C12-OCDD	23	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	18	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166114
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-133 SDG#: DX024-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5B-SS-0.0-0.5

LLI Sample # SW 6166114
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-133 SDG#: DX024-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/20/2011 08:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166115
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-131 SDG#: DX024-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-131-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166115
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-131 SDG#: DX024-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0653	JQ	0.0590	1.05	1
11031	12378-PeCDD	40321-76-4	0.537	JQ	0.0970	5.25	1
11031	123478-HxCDD	39227-28-6	0.966	JB	0.0958	5.25	1
11031	123678-HxCDD	57653-85-7	3.99	JB	0.0976	5.25	1
11031	123789-HxCDD	19408-74-3	2.38	JB	0.101	5.25	1
11031	1234678-HpCDD	35822-46-9	196	B	0.179	5.25	1
11031	OCDD	3268-87-9	3,130	B	0.298	10.5	1
11031	2378-TCDF	51207-31-9	0.209	JB	0.0565	1.05	1
11031	12378-PeCDF	57117-41-6	0.491	JB	0.0455	5.25	1
11031	23478-PeCDF	57117-31-4	0.730	JB	0.0430	5.25	1
11031	123478-HxCDF	70648-26-9	0.866	JB	0.0602	5.25	1
11031	123678-HxCDF	57117-44-9	0.815	JB	0.0570	5.25	1
11031	123789-HxCDF	72918-21-9	0.498	JB	0.0653	5.25	1
11031	234678-HxCDF	60851-34-5	0.893	JB	0.0574	5.25	1
11031	1234678-HpCDF	67562-39-4	11.1	B	0.0748	5.25	1
11031	1234789-HpCDF	55673-89-7	1.05	JB	0.0975	5.25	1
11031	OCDF	39001-02-0	27.9	B	0.172	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	39	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166115
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-131 SDG#: DX024-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5B-SS-0.0-0.5

LLI Sample # SW 6166115
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:25

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-131 SDG#: DX024-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 11:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166116
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-135 SDG#: DX024-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166116
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-135 SDG#: DX024-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.801	J	0.0541	1.11	1
11031	12378-PeCDD	40321-76-4	5.35	JQ	0.0884	5.56	1
11031	123478-HxCDD	39227-28-6	9.76	B	0.0659	5.56	1
11031	123678-HxCDD	57653-85-7	20.3	B	0.0699	5.56	1
11031	123789-HxCDD	19408-74-3	18.7	B	0.0690	5.56	1
11031	1234678-HpCDD	35822-46-9	555	B	0.248	5.56	1
11031	OCDD	3268-87-9	5,210	EB	0.209	11.1	1
11031	2378-TCDF	51207-31-9	0.896	JBQ	0.0782	1.11	1
11031	12378-PeCDF	57117-41-6	1.38	JB	0.0392	5.56	1
11031	23478-PeCDF	57117-31-4	1.74	JB	0.0354	5.56	1
11031	123478-HxCDF	70648-26-9	4.87	JB	0.0568	5.56	1
11031	123678-HxCDF	57117-44-9	4.26	JB	0.0537	5.56	1
11031	123789-HxCDF	72918-21-9	1.52	JB	0.0743	5.56	1
11031	234678-HxCDF	60851-34-5	5.26	JB	0.0554	5.56	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0568	5.56	1
11031	1234789-HpCDF	55673-89-7	7.92	B	0.104	5.56	1
11031	OCDF	39001-02-0	296	B	0.129	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166116
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-135 SDG#: DX024-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA5B-SS-0.0-0.5

LLI Sample # SW 6166116
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 11:13

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-135 SDG#: DX024-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 12:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-134-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166117
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-134 SDG#: DX024-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166117
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-134 SDG#: DX024-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.857	J	0.0557	1.05	1
11031	12378-PeCDD	40321-76-4	1.40	JQ	0.0638	5.26	1
11031	123478-HxCDD	39227-28-6	0.844	JB	0.0400	5.26	1
11031	123678-HxCDD	57653-85-7	2.10	JB	0.0408	5.26	1
11031	123789-HxCDD	19408-74-3	2.00	JB	0.0428	5.26	1
11031	1234678-HpCDD	35822-46-9	51.8	B	0.0742	5.26	1
11031	OCDD	3268-87-9	530	B	0.108	10.5	1
11031	2378-TCDF	51207-31-9	0.297	JB	0.0427	1.05	1
11031	12378-PeCDF	57117-41-6	0.359	JB	0.0229	5.26	1
11031	23478-PeCDF	57117-31-4	0.510	JB	0.0196	5.26	1
11031	123478-HxCDF	70648-26-9	0.547	JB	0.0277	5.26	1
11031	123678-HxCDF	57117-44-9	0.441	JB	0.0264	5.26	1
11031	123789-HxCDF	72918-21-9	0.184	JB	0.0322	5.26	1
11031	234678-HxCDF	60851-34-5	0.551	JB	0.0267	5.26	1
11031	1234678-HpCDF	67562-39-4	8.16	B	0.0351	5.26	1
11031	1234789-HpCDF	55673-89-7	0.685	JB	0.0493	5.26	1
11031	OCDF	39001-02-0	21.4	B	0.0538	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-134-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166117
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-134 SDG#: DX024-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-134-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5B-SS-0.0-0.5

LLI Sample # SW 6166117
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:55

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-134 SDG#: DX024-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 13:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SED-021-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166118
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-021 SDG#: DX024-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-021-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166118
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-021 SDG#: DX024-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0453	JQ	0.0253	1.05	1
11031	12378-PeCDD	40321-76-4	0.170	JQ	0.0409	5.27	1
11031	123478-HxCDD	39227-28-6	0.391	JBQ	0.0338	5.27	1
11031	123678-HxCDD	57653-85-7	2.24	JB	0.0351	5.27	1
11031	123789-HxCDD	19408-74-3	0.745	JB	0.0356	5.27	1
11031	1234678-HpCDD	35822-46-9	54.5	B	0.0612	5.27	1
11031	OCDD	3268-87-9	565	B	0.0753	10.5	1
11031	2378-TCDF	51207-31-9	0.0483	JB	0.0267	1.05	1
11031	12378-PeCDF	57117-41-6	0.192	JBQ	0.0148	5.27	1
11031	23478-PeCDF	57117-31-4	0.165	JBQ	0.0158	5.27	1
11031	123478-HxCDF	70648-26-9	0.324	JB	0.0297	5.27	1
11031	123678-HxCDF	57117-44-9	0.343	JB	0.0248	5.27	1
11031	123789-HxCDF	72918-21-9	0.0774	JBQ	0.0387	5.27	1
11031	234678-HxCDF	60851-34-5	0.513	JB	0.0278	5.27	1
11031	1234678-HpCDF	67562-39-4	9.15	B	0.0222	5.27	1
11031	1234789-HpCDF	55673-89-7	0.816	JB	0.0403	5.27	1
11031	OCDF	39001-02-0	21.0	B	0.0573	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	100	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-021-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166118
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-021 SDG#: DX024-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-021-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-021-SIV-SD-0.0-0.5

LLI Sample # SW 6166118
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:21

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-021 SDG#: DX024-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 14:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402A	12/22/2010 20:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166119
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-018 SDG#: DX024-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166119
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-018 SDG#: DX024-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0408	JQ	0.0180	1.11	1
11031	12378-PeCDD	40321-76-4	0.190	JQ	0.0296	5.55	1
11031	123478-HxCDD	39227-28-6	0.202	JBQ	0.0272	5.55	1
11031	123678-HxCDD	57653-85-7	0.619	JB	0.0290	5.55	1
11031	123789-HxCDD	19408-74-3	0.458	JBQ	0.0290	5.55	1
11031	1234678-HpCDD	35822-46-9	16.4	B	0.0518	5.55	1
11031	OCDD	3268-87-9	191	B	0.0605	11.1	1
11031	2378-TCDF	51207-31-9	0.128	JBQ	0.0342	1.11	1
11031	12378-PeCDF	57117-41-6	0.260	JB	0.0144	5.55	1
11031	23478-PeCDF	57117-31-4	0.461	JB	0.0156	5.55	1
11031	123478-HxCDF	70648-26-9	0.178	JB	0.0200	5.55	1
11031	123678-HxCDF	57117-44-9	0.196	JBQ	0.0169	5.55	1
11031	123789-HxCDF	72918-21-9	0.159	JBQ	0.0270	5.55	1
11031	234678-HxCDF	60851-34-5	0.249	JB	0.0191	5.55	1
11031	1234678-HpCDF	67562-39-4	2.93	JB	0.0183	5.55	1
11031	1234789-HpCDF	55673-89-7	0.205	JB	0.0358	5.55	1
11031	OCDF	39001-02-0	8.78	JB	0.0404	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166119
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-018 SDG#: DX024-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-018-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-018-SIV-SD-0.0-0.5

LLI Sample # SW 6166119
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:31

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-018 SDG#: DX024-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 15:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166121
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-016 SDG#: DX024-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166121
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-016 SDG#: DX024-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.120	JQ	0.0287	1.12	1
11031	12378-PeCDD	40321-76-4	0.820	JQ	0.0609	5.58	1
11031	123478-HxCDD	39227-28-6	2.18	JB	0.0487	5.58	1
11031	123678-HxCDD	57653-85-7	20.7	B	0.0510	5.58	1
11031	123789-HxCDD	19408-74-3	5.06	JB	0.0494	5.58	1
11031	1234678-HpCDD	35822-46-9	735	B	0.202	5.58	1
11031	OCDD	3268-87-9	7,800	EB	0.194	11.2	1
11031	2378-TCDF	51207-31-9	0.0902	JBQ	0.0305	1.12	1
11031	12378-PeCDF	57117-41-6	0.363	JBQ	0.0208	5.58	1
11031	23478-PeCDF	57117-31-4	0.247	JBQ	0.0225	5.58	1
11031	123478-HxCDF	70648-26-9	2.42	JB	0.0539	5.58	1
11031	123678-HxCDF	57117-44-9	2.82	JB	0.0451	5.58	1
11031	123789-HxCDF	72918-21-9	0.495	JBQ	0.0674	5.58	1
11031	234678-HxCDF	60851-34-5	4.66	JB	0.0528	5.58	1
11031	1234678-HpCDF	67562-39-4	75.4	B	0.0434	5.58	1
11031	1234789-HpCDF	55673-89-7	11.7	B	0.0828	5.58	1
11031	OCDF	39001-02-0	177	B	0.0675	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166121
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-016 SDG#: DX024-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-016-SIV-SD-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SED-016-SIV-SD-0.0-0.5

LLI Sample # SW 6166121
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-016 SDG#: DX024-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 16:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-153-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166122
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-153 SDG#: DX024-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-153-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166122
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-153 SDG#: DX024-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.161	JQ	0.0212	1.15	1
11031	12378-PeCDD	40321-76-4	1.14	J	0.0453	5.76	1
11031	123478-HxCDD	39227-28-6	2.53	JB	0.0281	5.76	1
11031	123678-HxCDD	57653-85-7	6.16	B	0.0295	5.76	1
11031	123789-HxCDD	19408-74-3	5.44	JB	0.0291	5.76	1
11031	1234678-HpCDD	35822-46-9	165	B	0.0942	5.76	1
11031	OCDD	3268-87-9	2,010	B	0.106	11.5	1
11031	2378-TCDF	51207-31-9	0.461	JB	0.0440	1.15	1
11031	12378-PeCDF	57117-41-6	0.628	JB	0.0189	5.76	1
11031	23478-PeCDF	57117-31-4	0.920	JB	0.0179	5.76	1
11031	123478-HxCDF	70648-26-9	1.47	JB	0.0273	5.76	1
11031	123678-HxCDF	57117-44-9	1.38	JB	0.0259	5.76	1
11031	123789-HxCDF	72918-21-9	0.874	JB	0.0302	5.76	1
11031	234678-HxCDF	60851-34-5	1.83	JB	0.0266	5.76	1
11031	1234678-HpCDF	67562-39-4	29.0	B	0.0406	5.76	1
11031	1234789-HpCDF	55673-89-7	2.02	JB	0.0501	5.76	1
11031	OCDF	39001-02-0	67.9	B	0.0309	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-153-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166122
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-153 SDG#: DX024-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-153-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SS-0.0-0.5

LLI Sample # SW 6166122
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:08

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-153 SDG#: DX024-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 17:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-155-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166123
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-155 SDG#: DX024-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166123
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-155 SDG#: DX024-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0159	U	0.0159	1.04	1
11031	12378-PeCDD	40321-76-4	0.0276	U	0.0276	5.22	1
11031	123478-HxCDD	39227-28-6	0.182	JBQ	0.0239	5.22	1
11031	123678-HxCDD	57653-85-7	1.24	JB	0.0245	5.22	1
11031	123789-HxCDD	19408-74-3	1.22	JB	0.0247	5.22	1
11031	1234678-HpCDD	35822-46-9	25.2	B	0.0416	5.22	1
11031	OCDD	3268-87-9	313	B	0.0505	10.4	1
11031	2378-TCDF	51207-31-9	0.137	JBQ	0.0253	1.04	1
11031	12378-PeCDF	57117-41-6	0.298	JB	0.0117	5.22	1
11031	23478-PeCDF	57117-31-4	0.275	JB	0.0123	5.22	1
11031	123478-HxCDF	70648-26-9	0.202	JB	0.0182	5.22	1
11031	123678-HxCDF	57117-44-9	0.234	JBQ	0.0159	5.22	1
11031	123789-HxCDF	72918-21-9	0.391	JB	0.0249	5.22	1
11031	234678-HxCDF	60851-34-5	0.262	JBQ	0.0182	5.22	1
11031	1234678-HpCDF	67562-39-4	2.35	JB	0.0169	5.22	1
11031	1234789-HpCDF	55673-89-7	0.222	JBQ	0.0307	5.22	1
11031	OCDF	39001-02-0	4.59	JB	0.0307	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-155-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166123
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-155 SDG#: DX024-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-155-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SS-0.0-0.5

LLI Sample # SW 6166123
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:41

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-155 SDG#: DX024-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 18:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166124
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-149 SDG#: DX024-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166124
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-149 SDG#: DX024-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0659	J	0.0201	1.04	1
11031	12378-PeCDD	40321-76-4	0.461	J	0.0416	5.22	1
11031	123478-HxCDD	39227-28-6	0.921	JB	0.0276	5.22	1
11031	123678-HxCDD	57653-85-7	2.52	JB	0.0283	5.22	1
11031	123789-HxCDD	19408-74-3	2.03	JB	0.0285	5.22	1
11031	1234678-HpCDD	35822-46-9	68.7	B	0.0693	5.22	1
11031	OCDD	3268-87-9	737	B	0.0858	10.4	1
11031	2378-TCDF	51207-31-9	0.282	JB	0.0410	1.04	1
11031	12378-PeCDF	57117-41-6	0.869	JB	0.0192	5.22	1
11031	23478-PeCDF	57117-31-4	0.589	JB	0.0176	5.22	1
11031	123478-HxCDF	70648-26-9	0.752	JB	0.0233	5.22	1
11031	123678-HxCDF	57117-44-9	0.861	JB	0.0221	5.22	1
11031	123789-HxCDF	72918-21-9	0.281	JB	0.0259	5.22	1
11031	234678-HxCDF	60851-34-5	0.883	JB	0.0227	5.22	1
11031	1234678-HpCDF	67562-39-4	15.7	B	0.0308	5.22	1
11031	1234789-HpCDF	55673-89-7	1.16	JB	0.0384	5.22	1
11031	OCDF	39001-02-0	39.9	B	0.0362	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-149-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166124
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-149 SDG#: DX024-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SS-0.0-0.5

LLI Sample # SW 6166124
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:50

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-149 SDG#: DX024-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 22:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166125
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-156 SDG#: DX024-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-156-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166125
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-156 SDG#: DX024-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.139	J	0.0258	1.07	1
11031	12378-PeCDD	40321-76-4	1.43	J	0.0652	5.37	1
11031	123478-HxCDD	39227-28-6	2.84	JB	0.0410	5.37	1
11031	123678-HxCDD	57653-85-7	7.38	B	0.0425	5.37	1
11031	123789-HxCDD	19408-74-3	5.11	JB	0.0429	5.37	1
11031	1234678-HpCDD	35822-46-9	183	B	0.117	5.37	1
11031	OCDD	3268-87-9	1,910	B	0.120	10.7	1
11031	2378-TCDF	51207-31-9	0.573	JB	0.0707	1.07	1
11031	12378-PeCDF	57117-41-6	0.693	JB	0.0260	5.37	1
11031	23478-PeCDF	57117-31-4	1.51	JB	0.0253	5.37	1
11031	123478-HxCDF	70648-26-9	1.85	JB	0.0364	5.37	1
11031	123678-HxCDF	57117-44-9	2.20	JB	0.0331	5.37	1
11031	123789-HxCDF	72918-21-9	0.686	JB	0.0454	5.37	1
11031	234678-HxCDF	60851-34-5	2.25	JB	0.0352	5.37	1
11031	1234678-HpCDF	67562-39-4	20.1	B	0.0287	5.37	1
11031	1234789-HpCDF	55673-89-7	2.99	JB	0.0456	5.37	1
11031	OCDF	39001-02-0	34.6	B	0.0524	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166125
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-156 SDG#: DX024-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SS-0.0-0.5

LLI Sample # SW 6166125
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:32

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-156 SDG#: DX024-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/19/2011 23:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-150-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166126
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-150 SDG#: DX024-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166126
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-150 SDG#: DX024-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0833	J	0.0218	1.05	1
11031	12378-PeCDD	40321-76-4	0.697	J	0.0474	5.26	1
11031	123478-HxCDD	39227-28-6	1.94	JB	0.0326	5.26	1
11031	123678-HxCDD	57653-85-7	5.41	B	0.0337	5.26	1
11031	123789-HxCDD	19408-74-3	4.07	JB	0.0346	5.26	1
11031	1234678-HpCDD	35822-46-9	192	B	0.105	5.26	1
11031	OCDD	3268-87-9	2,320	B	0.111	10.5	1
11031	2378-TCDF	51207-31-9	0.277	JBQ	0.0367	1.05	1
11031	12378-PeCDF	57117-41-6	0.671	JB	0.0184	5.26	1
11031	23478-PeCDF	57117-31-4	0.708	JB	0.0169	5.26	1
11031	123478-HxCDF	70648-26-9	2.39	JB	0.0295	5.26	1
11031	123678-HxCDF	57117-44-9	2.60	JB	0.0283	5.26	1
11031	123789-HxCDF	72918-21-9	0.444	JB	0.0352	5.26	1
11031	234678-HxCDF	60851-34-5	3.13	JB	0.0294	5.26	1
11031	1234678-HpCDF	67562-39-4	79.8	B	0.0446	5.26	1
11031	1234789-HpCDF	55673-89-7	5.53	B	0.0586	5.26	1
11031	OCDF	39001-02-0	265	B	0.0491	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-150-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166126
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-150 SDG#: DX024-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-150-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SS-0.0-0.5

LLI Sample # SW 6166126
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:10

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-150 SDG#: DX024-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/20/2011 00:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166127
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-181 SDG#: DX024-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-181-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166127
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-181 SDG#: DX024-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0500	U	0.0500	1.09	1
11031	12378-PeCDD	40321-76-4	0.540	J	0.0871	5.43	1
11031	123478-HxCDD	39227-28-6	0.801	JB	0.0858	5.43	1
11031	123678-HxCDD	57653-85-7	2.90	JB	0.0821	5.43	1
11031	123789-HxCDD	19408-74-3	2.08	JB	0.0747	5.43	1
11031	1234678-HpCDD	35822-46-9	72.0	B	0.136	5.43	1
11031	OCDD	3268-87-9	1,300	B	0.178	10.9	1
11031	2378-TCDF	51207-31-9	0.195	JB	0.0563	1.09	1
11031	12378-PeCDF	57117-41-6	0.203	JB	0.0250	5.43	1
11031	23478-PeCDF	57117-31-4	0.483	JBQ	0.0310	5.43	1
11031	123478-HxCDF	70648-26-9	0.488	JB	0.0523	5.43	1
11031	123678-HxCDF	57117-44-9	0.383	JB	0.0526	5.43	1
11031	123789-HxCDF	72918-21-9	0.603	JBQ	0.0725	5.43	1
11031	234678-HxCDF	60851-34-5	0.448	JB	0.0577	5.43	1
11031	1234678-HpCDF	67562-39-4	7.79	B	0.0539	5.43	1
11031	1234789-HpCDF	55673-89-7	0.686	JB	0.0711	5.43	1
11031	OCDF	39001-02-0	22.0	B	0.124	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	48	23 - 140
13C12-OCDD	30	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	35	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166127
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-181 SDG#: DX024-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SS-0.0-0.5

LLI Sample # SW 6166127
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:26

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-181 SDG#: DX024-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/20/2011 09:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166128
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-136 SDG#: DX024-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-136-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166128
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-136 SDG#: DX024-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0729	JQ	0.0359	1.10	1
11031	12378-PeCDD	40321-76-4	0.719	J	0.0604	5.48	1
11031	123478-HxCDD	39227-28-6	1.24	JB	0.0393	5.48	1
11031	123678-HxCDD	57653-85-7	4.26	JB	0.0409	5.48	1
11031	123789-HxCDD	19408-74-3	3.05	JB	0.0416	5.48	1
11031	1234678-HpCDD	35822-46-9	119	B	0.118	5.48	1
11031	OCDD	3268-87-9	1,640	B	0.149	11.0	1
11031	2378-TCDF	51207-31-9	0.791	JB	0.0660	1.10	1
11031	12378-PeCDF	57117-41-6	0.789	JB	0.0332	5.48	1
11031	23478-PeCDF	57117-31-4	1.82	JB	0.0305	5.48	1
11031	123478-HxCDF	70648-26-9	1.20	JB	0.0394	5.48	1
11031	123678-HxCDF	57117-44-9	1.08	JB	0.0395	5.48	1
11031	123789-HxCDF	72918-21-9	0.794	JB	0.0438	5.48	1
11031	234678-HxCDF	60851-34-5	1.18	JB	0.0380	5.48	1
11031	1234678-HpCDF	67562-39-4	14.8	B	0.0457	5.48	1
11031	1234789-HpCDF	55673-89-7	1.32	JB	0.0581	5.48	1
11031	OCDF	39001-02-0	40.3	B	0.0489	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166128
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-136 SDG#: DX024-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA5B-SS-0.0-0.5

LLI Sample # SW 6166128
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:50

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-136 SDG#: DX024-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/20/2011 02:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-203-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166129
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-203 SDG#: DX024-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-203-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166129
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-203 SDG#: DX024-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0484	JQ	0.0193	1.09	1
11031	12378-PeCDD	40321-76-4	0.166	J	0.0367	5.45	1
11031	123478-HxCDD	39227-28-6	0.238	JB	0.0346	5.45	1
11031	123678-HxCDD	57653-85-7	0.760	JB	0.0369	5.45	1
11031	123789-HxCDD	19408-74-3	0.655	JB	0.0406	5.45	1
11031	1234678-HpCDD	35822-46-9	22.3	B	0.0656	5.45	1
11031	OCDD	3268-87-9	312	B	0.0676	10.9	1
11031	2378-TCDF	51207-31-9	0.0825	JBQ	0.0284	1.09	1
11031	12378-PeCDF	57117-41-6	0.483	JB	0.0167	5.45	1
11031	23478-PeCDF	57117-31-4	0.197	JB	0.0172	5.45	1
11031	123478-HxCDF	70648-26-9	0.271	JBQ	0.0314	5.45	1
11031	123678-HxCDF	57117-44-9	0.240	JBQ	0.0263	5.45	1
11031	123789-HxCDF	72918-21-9	0.199	JB	0.0358	5.45	1
11031	234678-HxCDF	60851-34-5	0.238	JB	0.0300	5.45	1
11031	1234678-HpCDF	67562-39-4	2.73	JB	0.0266	5.45	1
11031	1234789-HpCDF	55673-89-7	0.292	JBQ	0.0461	5.45	1
11031	OCDF	39001-02-0	6.06	JB	0.0520	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-203-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166129
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-203 SDG#: DX024-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-203-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SS-0.0-0.5

LLI Sample # SW 6166129
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:00

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-203 SDG#: DX024-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/20/2011 03:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-257-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166130
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-257 SDG#: DX024-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-257-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166130
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-257 SDG#: DX024-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.106	JQ	0.0169	1.11	1
11031	12378-PeCDD	40321-76-4	0.851	J	0.0441	5.56	1
11031	123478-HxCDD	39227-28-6	1.63	JB	0.0314	5.56	1
11031	123678-HxCDD	57653-85-7	4.40	JB	0.0324	5.56	1
11031	123789-HxCDD	19408-74-3	3.15	JB	0.0317	5.56	1
11031	1234678-HpCDD	35822-46-9	160	B	0.0958	5.56	1
11031	OCDD	3268-87-9	1,870	B	0.0841	11.1	1
11031	2378-TCDF	51207-31-9	0.367	JB	0.0377	1.11	1
11031	12378-PeCDF	57117-41-6	0.723	JB	0.0178	5.56	1
11031	23478-PeCDF	57117-31-4	0.980	JB	0.0172	5.56	1
11031	123478-HxCDF	70648-26-9	1.77	JB	0.0272	5.56	1
11031	123678-HxCDF	57117-44-9	1.16	JB	0.0257	5.56	1
11031	123789-HxCDF	72918-21-9	0.863	JB	0.0294	5.56	1
11031	234678-HxCDF	60851-34-5	1.38	JB	0.0262	5.56	1
11031	1234678-HpCDF	67562-39-4	21.4	B	0.0292	5.56	1
11031	1234789-HpCDF	55673-89-7	1.86	JB	0.0383	5.56	1
11031	OCDF	39001-02-0	43.4	B	0.0338	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-257-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166130
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-257 SDG#: DX024-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-257-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-257-SA5B-SS-0.0-0.5

LLI Sample # SW 6166130
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 13:25

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-257 SDG#: DX024-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/20/2011 04:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-204-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166131
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-204 SDG#: DX024-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-204-SA5B-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166131
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-204 SDG#: DX024-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0302	JQ	0.0183	1.07	1
11031	12378-PeCDD	40321-76-4	0.181	JQ	0.0285	5.36	1
11031	123478-HxCDD	39227-28-6	0.204	JB	0.0250	5.36	1
11031	123678-HxCDD	57653-85-7	0.724	JB	0.0290	5.36	1
11031	123789-HxCDD	19408-74-3	0.554	JBQ	0.0272	5.36	1
11031	1234678-HpCDD	35822-46-9	15.6	B	0.0439	5.36	1
11031	OCDD	3268-87-9	179	B	0.0581	10.7	1
11031	2378-TCDF	51207-31-9	0.0681	JB	0.0188	1.07	1
11031	12378-PeCDF	57117-41-6	0.138	JB	0.0140	5.36	1
11031	23478-PeCDF	57117-31-4	0.260	JB	0.0130	5.36	1
11031	123478-HxCDF	70648-26-9	0.173	JBQ	0.0188	5.36	1
11031	123678-HxCDF	57117-44-9	0.226	JBQ	0.0185	5.36	1
11031	123789-HxCDF	72918-21-9	0.116	JB	0.0212	5.36	1
11031	234678-HxCDF	60851-34-5	0.247	JB	0.0179	5.36	1
11031	1234678-HpCDF	67562-39-4	3.15	JB	0.0283	5.36	1
11031	1234789-HpCDF	55673-89-7	0.265	JBQ	0.0347	5.36	1
11031	OCDF	39001-02-0	10.0	JB	0.0374	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166131
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-204 SDG#: DX024-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5B-SS-0.0-0.5 Grab Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SS-0.0-0.5

LLI Sample # SW 6166131
LLI Group # 1225765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 15:51

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-204 SDG#: DX024-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11006001	01/20/2011 04:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11006001	01/06/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162402B	12/22/2010 20:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225765
Reported: 02/01/11 at 11:46 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10356162402A	Sample number(s): 6166113-6166118								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10356162402B	Sample number(s): 6166119,6166121-6166131								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11006001	Sample number(s): 6166113-6166119,6166121-6166131								
2378-TCDD	0.0130 U	0.0130	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0207 U	0.0207	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0156 J	0.0121	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0249 J	0.0126	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0161 J	0.0117	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.118 J	0.0195	5.00	ng/kg	91		70-140		
OCDD	0.366 J	0.0243	10.0	ng/kg	90		78-144		
2378-TCDF	0.0160 J	0.0138	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0239 J	0.00990	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0586 J	0.00860	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0698 J	0.0117	5.00	ng/kg	87		72-134		
123678-HxCDF	0.0377 J	0.0106	5.00	ng/kg	86		84-130		
123789-HxCDF	0.0373 J	0.0134	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0505 J	0.0104	5.00	ng/kg	87		70-156		
1234678-HpCDF	0.117 J	0.0121	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0646 J	0.0225	5.00	ng/kg	90		78-138		
OCDF	0.220 J	0.0263	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10356162402A	Sample number(s): 6166113-6166118					BKG: P166079			
28a Moisture Content by 160.3						5.1	5.2	2	20
Batch number: 10356162402B	Sample number(s): 6166119,6166121-6166131					BKG: P166080			
28a Moisture Content by 160.3						9.9	9.5	4	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225765
Reported: 02/01/11 at 11:46 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11006001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6166113	70	58	58	57	61	68
6166114	75	62	91	85	84	75
6166115	64	68	77	76	75	73
6166116	73	75	79	78	77	67
6166117	72	82	80	79	79	75
6166118	81	91	89	100	91	78
6166119	75	85	84	96	84	72
6166121	60	67	67	76	67	60
6166122	70	79	80	79	78	79
6166123	65	77	74	83	72	64
6166124	67	78	79	77	77	76
6166125	68	76	76	81	76	69
6166126	70	80	78	78	77	76
6166127	65	62	69	68	67	35
6166128	71	76	79	77	78	78
6166129	67	70	71	80	71	69
6166130	76	84	85	85	85	84
6166131	64	70	73	73	72	69
Blank	69	70	67	71	71	65
OPR	68	69	69	84	72	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6166113	53	50	35	57	58	54
6166114	52	44	18	83	58	80
6166115	62	58	42	73	65	71
6166116	78	53	39	81	74	75
6166117	70	60	47	79	77	76
6166118	110	72	58	90	92	93
6166119	103	64	51	86	84	87
6166121	84	53	43	68	67	72
6166122	76	74	61	81	74	76
6166123	93	62	52	74	76	77
6166124	71	66	54	77	73	76
6166125	81	63	51	80	74	77
6166126	72	69	58	79	75	76
6166127	53	50	32	70	62	64
6166128	69	66	51	79	72	77
6166129	91	67	55	73	71	74
6166130	82	77	65	83	71	82
6166131	64	62	49	71	67	70
Blank	95	62	55	78	75	78
OPR	97	53	45	78	74	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225765
Reported: 02/01/11 at 11:46 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6166113	54	62	51	42	69	62
6166114	79	74	44	23	81	64
6166115	69	68	55	39	71	67
6166116	74	73	63	51	77	72
6166117	74	75	64	50	80	79
6166118	92	93	86	72	85	103
6166119	86	85	79	66	80	95
6166121	69	69	65	57	62	75
6166122	75	73	71	58	76	78
6166123	77	76	72	63	68	84
6166124	73	72	63	51	74	76
6166125	76	75	68	56	72	79
6166126	75	74	67	56	76	79
6166127	64	63	48	30	68	60
6166128	74	72	63	48	76	74
6166129	73	66	74	62	69	75
6166130	83	81	76	65	82	85
6166131	59	63	59	46	69	68
Blank	75	78	77	72	64	67
OPR	78	77	75	65	66	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1225765 6166 113-31

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure DR and DKP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-ERH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-303-SA5B-SS-0.0-0.5	12.15.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-262-SA5B-SS-0.0-0.5MS	12.15.10	0925	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										MS/MSD
SL-302-SA5B-SS-0.0-0.5	12.15.10	0949	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
DUP06-SA5B-QC-121510	12.15.10	0935	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										DUP
SL-263-SA5B-SS-0.0-0.5	12.15.10	0907	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-264-SA5B-SS-0.0-0.5	12.15.10	0905	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-027-SA5B-SB-4.0-5.0	12.15.10	1019	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-027-SA5B-SB-9.0-10.0	12.15.10	1025	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-027-SA5B-SB-4.5	12.15.10	1015	soil	none	5 Encore Samplers	X	X		X																				
SL-027-SA5B-SB-8.5	12.15.10	1023	soil	none	5 Encore Samplers	X	X		X																				
TB-121510	12.15.10	0800	water	HCl	3-40 mL VOA vials	X	X		X																				trip blank
EB03-SA5B-121510	12.15.10	1215	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB03-SA5B-121510	12.15.10	1215	water	none	1-500 ml poly							X	X			X										X			rinsate
EB03-SA5B-121510	12.15.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB15-SA5B-121510	12.15.10	1230	water	none	5-1 liter ambers			X						X	X			X	X										rinsate
EB15-SA5B-121510	12.15.10	1230	water	none	1-500 ml poly							X	X			X										X			rinsate
EB15-SA5B-121510	12.15.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB15-SA5B-121510	12.15.10	1230	water	HCl	6-40 mL clear VOA vials	X	X																						rinsate
SL-132-SA5B-SS-0.0-0.5	12.15.10	1105	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-133-SA5B-SS-0.0-0.5	12.15.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-131-SA5B-SS-0.0-0.5	12.15.10	1125	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-135-SA5B-SS-0.0-0.5	12.15.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-134-SA5B-SS-0.0-0.5	12.15.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-298-SA5B-SB-4.0-5.0	12.15.10	1425	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-298-SA5B-SB-9.0-10.0	12.15.10	1435	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-298-SA5B-SB-4.5	12.15.10	1420	soil	none	5 Encore Samplers	X	X		X																				
SL-298-SA5B-SB-9.5	12.15.10	1430	soil	none	5 Encore Samplers	X	X		X																				
SED-021-SIV-SD-0.0-0.5	12.15.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-018-SIV-SD-0.0-0.5	12.15.10	1231	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
~~SED-019-SIV-SD-0.0-0.5~~	~~12.15.10~~	~~1153~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~										VOIDED
SED-016-SIV-SD-0.0-0.5	12.15.10	1341	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-153-SA5B-SS-0.0-0.5	12.15.10	1408	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-155-SA5B-SS-0.0-0.5	12.15.10	1341	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-149-SA5B-SS-0.0-0.5	12.15.10	1550	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-156-SA5B-SS-0.0-0.5	12.15.10	1332	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-150-SA5B-SS-0.0-0.5	12.15.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-181-SA5B-SS-0.0-0.5	12.15.10	1526	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-136-SA5B-SS-0.0-0.5	12.15.10	1350	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-203-SA5B-SS-0.0-0.5	12.15.10	1500	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-257-SA5B-SS-0.0-0.5	12.15.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-204-SA5B-SS-0.0-0.5	12.15.10	1551	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-297-SA5B-4.0-5.0	12.15.10	1600	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-297-SA5B-7.0-8.0	12.15.10	1606	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-297-SA5B-4.5	12.15.10	1558	soil	none	5 Encore Samplers	X	X		X																				
SL-297-SA5B-7.5	12.15.10	1603	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by: (Signature) — Date/Time: 12.15.10 | 1700 — Received for Laboratory by: (Signature) — Date/Time: 12/16/10 1000

Received by: (Signature) — Date/Time — Airbill No.: 007822892

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 6

SED-019-SIV-SD-0.0-0.5 was voided on 12/16/10 per PB.
NLM 12/30/10

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/16/2010
Group Number: 1225779
SDG: DE041
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-303-SA5B-SS-0.0-0.5 Soil	6166189
SL-262-SA5B-SS-0.0-0.5 Soil	6166190
SL-262-SA5B-SS-0.0-0.5MS Soil	6166191
SL-262-SA5B-SS-0.0-0.5MSD Soil	6166192
SL-262-SA5B-SS-0.0-0.5DUP Soil	6166193
SL-302-SA5B-SS-0.0-0.5 Soil	6166194
DUP06-SA5B-QC-121510 Soil	6166195
SL-263-SA5B-SS-0.0-0.5 Soil	6166196
SL-264-SA5B-SS-0.0-0.5 Soil	6166197
SL-027-SA5B-SB-4.0-5.0 Soil	6166198
SL-027-SA5B-SB-8.0-9.0 Soil	6166199
TB-121510 Water	6166200
EB03-SA5B-121510 Water	6166201
EB15-SA5B-121510 Water	6166202
SL-298-SA5B-SB-4.0-5.0 Soil	6166203
SL-298-SA5B-SB-9.0-10.0 Soil	6166204
SL-297-SA5B-SB-4.0-5.0 Soil	6166205
SL-297-SA5B-SB-7.0-8.0 Soil	6166206

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

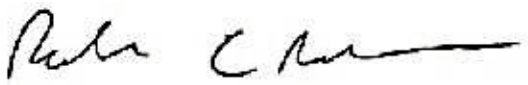

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-303-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA5B-SS-0.0-0.5

LLI Sample # SW 6166189
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:40 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL303 SDG#: DE041-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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LLI Group # 1225779
Account # 13013

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Suite 210
Chantilly VA 20151

SL303 SDG#: DE041-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.7		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.7		5
10138	Benzo(a)anthracene	56-55-3	4.5	J	3.9	9.7		5
10138	Benzo(a)pyrene	50-32-8	14		3.9	9.7		5
10138	Benzo(b)fluoranthene	205-99-2	14		3.9	9.7		5
10138	Benzo(g,h,i)perylene	191-24-2	16		3.9	9.7		5
10138	Benzo(k)fluoranthene	207-08-9	3.9	U	3.9	9.7		5
10138	Chrysene	218-01-9	18		1.9	9.7		5
10138	Dibenz(a,h)anthracene	53-70-3	4.6	J	3.9	9.7		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	55	J	35	110		5
10138	Fluoranthene	206-44-0	3.9	U	3.9	9.7		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.7		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.7		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.7		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7		5
10138	Phenanthrene	85-01-8	5.9	J	3.9	9.7		5
10138	Pyrene	129-00-0	5.2	J	3.9	9.7		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	11		1
10401	2,4-DB	94-82-6	4.7		0.72	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	140	U	140	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the							

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LLI Sample # SW 6166189
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL303 SDG#: DE041-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.40		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.50	U	0.50	0.50		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	4.5		0.39	2.0		1
10225	PCB-1260	11096-82-5	1.4	J	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							

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LLI Group # 1225779
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SL303 SDG#: DE041-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.82	23.1		1
07914	Boron	7440-42-8	1.03	U	1.03	5.78		1
01650	Calcium	7440-70-2	4,360		7.09	23.1		1
01654	Iron	7439-89-6	26,700		5.45	23.1		1
01656	Lithium	7439-93-2	20.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,350		2.94	11.6		1
06958	Manganese	7439-96-5	333		0.0902	0.578		1
10145	Phosphorus	7723-14-0	278		0.648	11.6		1
01662	Potassium	7440-09-7	4,020		20.8	57.8		1
01667	Sodium	7440-23-5	138		43.1	116		1
07968	Strontium	7440-24-6	34.9		0.0717	0.578		1
06969	Tin	7440-31-5	2.77	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,580		0.879	2.31		2
10146	Zirconium	7440-67-7	4.92	J	0.972	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.243		0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.98		0.0694	0.463		2
06126	Barium	7440-39-3	178		0.125	0.463		2
06127	Beryllium	7440-41-7	0.856		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.278		0.0416	0.116		2
06131	Chromium	7440-47-3	35.4		0.139	0.463		2
06132	Cobalt	7440-48-4	9.57		0.0231	0.116		2
06133	Copper	7440-50-8	15.2		0.0763	0.463		2
06135	Lead	7439-92-1	13.5		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.826		0.0578	0.116		2
06139	Nickel	7440-02-0	20.6		0.116	0.463		2
06141	Selenium	7782-49-2	0.197	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0687	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.411		0.0347	0.116		2
06148	Vanadium	7440-62-2	69.1		0.0254	0.116		2
06149	Zinc	7440-66-6	90.8		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0391	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.98	J	0.23	1.2		1

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SL303 SDG#: DE041-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	461	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.30	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011 12:01	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011 17:00	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010 06:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 20:17	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 03:42	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 14:09	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1

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LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:40 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL303 SDG#: DE041-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 12:45	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 19:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/09/2011 00:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 15:59	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 12:07	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166190
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-262-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166190
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.51	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	3.9		0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.0		0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.9		0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.5		0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.6		0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	8.7		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.3	19		1
10138	Fluoranthene	206-44-0	2.8		0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.6		0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.7	J	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	2.2		0.70	1.8		1
10138	Naphthalene	91-20-3	1.5	J	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	3.4		0.70	1.8		1
10138	Pyrene	129-00-0	4.5		0.70	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	2.8	U	2.8	2.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	84	U	84	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for MCPA and 2,4-DB represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

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SL262 SDG#: DE041-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.28	U	0.28	0.36		1
01363	p,p-DDT	50-29-3	0.38	U	0.38	0.38		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.094	U	0.094	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.36	U	0.36	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.52	U	0.52	0.52		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	4.4		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	4.4		0.35	1.8		1
10225	PCB-1260	11096-82-5	2.3		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,100		5.15	20.5		1

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SL-262-SA5B-SS-0.0-0.5

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SL262 SDG#: DE041-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.911	U	0.911	5.12		1
01650	Calcium	7440-70-2	3,630		6.28	20.5		1
01654	Iron	7439-89-6	24,600		4.82	20.5		1
01656	Lithium	7439-93-2	27.7		0.23	2.0		1
01657	Magnesium	7439-95-4	6,350		2.60	10.2		1
06958	Manganese	7439-96-5	334		0.0799	0.512		1
10145	Phosphorus	7723-14-0	481		0.574	10.2		1
01662	Potassium	7440-09-7	3,390		18.4	51.2		1
01667	Sodium	7440-23-5	120		38.2	102		1
07968	Strontium	7440-24-6	20.2		0.0635	0.512		1
06969	Tin	7440-31-5	2.65	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,580		0.778	2.05		2
10146	Zirconium	7440-67-7	3.57	J	0.860	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.282		0.0621	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.06		0.0621	0.414		2
06126	Barium	7440-39-3	104		0.112	0.414		2
06127	Beryllium	7440-41-7	0.633		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.175		0.0372	0.103		2
06131	Chromium	7440-47-3	24.3		0.124	0.414		2
06132	Cobalt	7440-48-4	6.55		0.0207	0.103		2
06133	Copper	7440-50-8	11.1		0.0683	0.414		2
06135	Lead	7439-92-1	13.6		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.802		0.0517	0.103		2
06139	Nickel	7440-02-0	15.1		0.103	0.414		2
06141	Selenium	7782-49-2	0.189	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0970	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.291		0.0310	0.103		2
06148	Vanadium	7440-62-2	46.5		0.0228	0.103		2
06149	Zinc	7440-66-6	81.9		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0044	J	0.0028	0.0976		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-262-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166190
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02BKG

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	403	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.85	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011	10:18	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011	15:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010	06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010	06:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010	13:52	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	03:56	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010	14:27	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010	06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010	01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010	12:04	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010	12:04	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010	12:04	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010	12:04	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010	12:04	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010	12:04	Eric L Eby	1

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Sample Description: SL-262-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166190
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:04	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:04	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:04	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:04	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:04	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:04	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 12:22	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:04	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 08:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 08:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 08:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 08:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 19:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/08/2011 21:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 14:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 12:23	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166191
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,400		18	180		1
04688	Acenaphthylene	208-96-8	1,400		18	180		1
04688	Aniline	62-53-3	530		180	530		1
04688	Anthracene	120-12-7	1,400		18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,400		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,200		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,200		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,200		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,200		18	180		1
04688	Benzoic acid	65-85-0	690		180	530		1
04688	Benzyl alcohol	100-51-6	1,300		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,400		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,400		18	180		1
04688	Carbazole	86-74-8	1,400		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		35	180		1
04688	4-Chloroaniline	106-47-8	560		70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,200		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,100		18	180		1
04688	2-Chlorophenol	95-57-8	1,400		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400		35	180		1
04688	Chrysene	218-01-9	1,400		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,200		18	180		1
04688	Dibenzofuran	132-64-9	1,400		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,300		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,300		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,300		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	810		110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,400		18	180		1
04688	Diethylphthalate	84-66-2	1,400		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,400		35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,600		35	180		1
04688	Dimethylphthalate	131-11-3	1,400		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100		180	530		1
04688	2,4-Dinitrophenol	51-28-5	1,300	J	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,400		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,500		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500		18	350		1
04688	Fluoranthene	206-44-0	1,400		18	180		1
04688	Fluorene	86-73-7	1,400		18	180		1
04688	Hexachlorobenzene	118-74-1	1,400		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,400		70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		180	530		1
04688	Hexachloroethane	67-72-1	1,300		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,200		18	180		1
04688	Isophorone	78-59-1	1,300		18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-262-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166191
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,400	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,300	18	180		1
04688	2-Methylphenol	95-48-7	1,300	35	180		1
04688	4-Methylphenol	106-44-5	1,300	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,300	18	180		1
04688	2-Nitroaniline	88-74-4	1,500	18	180		1
04688	3-Nitroaniline	99-09-2	1,300	35	180		1
04688	4-Nitroaniline	100-01-6	990	70	180		1
04688	Nitrobenzene	98-95-3	1,500	18	180		1
04688	2-Nitrophenol	88-75-5	1,400	18	180		1
04688	4-Nitrophenol	100-02-7	1,400	180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,400	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,300	18	180		1
04688	Pentachlorophenol	87-86-5	1,200	180	530		1
04688	Phenanthrene	85-01-8	1,400	18	180		1
04688	Phenol	108-95-2	1,400	18	180		1
04688	Pyrene	129-00-0	1,400	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,400	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,400	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500	35	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	31	0.70	1.8		1
10138	Acenaphthylene	208-96-8	33	0.35	1.8		1
10138	Anthracene	120-12-7	32	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	35	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	32	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	30	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	29	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	30	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	42	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	39	6.3	19		1
10138	Chrysene	218-01-9	34	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	27	0.70	1.8		1
10138	Diethylphthalate	84-66-2	39	6.3	19		1
10138	Dimethylphthalate	131-11-3	35	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47	6.3	19		1
10138	Fluoranthene	206-44-0	31	0.70	1.8		1
10138	Fluorene	86-73-7	32	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	31	0.70	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-262-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166191
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	28		0.70	1.8		1
10138	Naphthalene	91-20-3	29		0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	37		6.3	19		1
10138	Phenanthrene	85-01-8	30		0.70	1.8		1
10138	Pyrene	129-00-0	36		0.70	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.1		1.3	3.8		1
10401	Dalapon	75-99-0	19		4.6	9.5		1
10401	2,4-DB	94-82-6	16		0.65	1.8		1
10401	Dicamba	1918-00-9	1.6		0.42	1.3		1
10401	Dinoseb	88-85-7	2.2	J	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	6.6		0.84	1.8		1
10401	MCPA	94-74-6	2,600		80	260		1
10401	MCPP (Mecoprop)	93-65-2	1,100		79	260		1
10401	2,4,5-T	93-76-5	0.62		0.086	0.18		1
10401	2,4,5-TP	93-72-1	1.0		0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.23		0.070	0.18		1
01363	Alpha BHC	319-84-6	0.31		0.036	0.18		1
01363	Beta BHC	319-85-7	0.28		0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.33		0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.75		0.070	0.36		1
01363	p,p-DDE	72-55-9	0.70		0.070	0.36		1
01363	p,p-DDT	50-29-3	0.73		0.070	0.36		1
01363	Delta BHC	319-86-8	0.30		0.038	0.18		1
01363	Dieldrin	60-57-1	0.68		0.070	0.36		1
01363	Endosulfan I	959-98-8	0.26		0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.51		0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.89		0.070	0.36		1
01363	Endrin	72-20-8	0.66		0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.31	J	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.66		0.070	0.36		1
01363	Heptachlor	76-44-8	0.37		0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.25		0.036	0.18		1
01363	Methoxychlor	72-43-5	3.6		0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-262-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166191
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	3.9		1.1	3.5		1
10225	PCB-1016	12674-11-2	21		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	7.8		0.35	1.8		1
10225	PCB-1260	11096-82-5	23		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,500		5.20	20.7		1
07914	Boron	7440-42-8	197		0.920	5.17		1
01650	Calcium	7440-70-2	4,000		6.34	20.7		1
01654	Iron	7439-89-6	23,100		4.87	20.7		1
01656	Lithium	7439-93-2	127		0.23	2.1		1
01657	Magnesium	7439-95-4	5,520		2.63	10.3		1
06958	Manganese	7439-96-5	336		0.0807	0.517		1
10145	Phosphorus	7723-14-0	507		0.579	10.3		1
01662	Potassium	7440-09-7	4,390		18.6	51.7		1
01667	Sodium	7440-23-5	1,150		38.6	103		1
07968	Strontium	7440-24-6	118		0.0641	0.517		1
06969	Tin	7440-31-5	362		1.03	10.3		1
06970	Titanium	7440-32-6	1,690		0.786	2.07		2
10146	Zirconium	7440-67-7	103		0.869	5.17		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.841		0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.2		0.0627	0.418		2
06126	Barium	7440-39-3	137		0.113	0.418		2
06127	Beryllium	7440-41-7	1.59		0.0167	0.104		2
06128	Cadmium	7440-43-9	1.83		0.0376	0.104		2
06131	Chromium	7440-47-3	41.3		0.125	0.418		2
06132	Cobalt	7440-48-4	64.4		0.0209	0.104		2
06133	Copper	7440-50-8	23.9		0.0689	0.418		2
06135	Lead	7439-92-1	19.5		0.0109	0.209		2
06138	Molybdenum	7439-98-7	15.3		0.0522	0.104		2
06139	Nickel	7440-02-0	28.7		0.104	0.418		2
06141	Selenium	7782-49-2	3.01		0.0418	0.418		2

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Sample Description: **SL-262-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166191
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MS

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06142	Silver		7440-22-4	13.7	0.0125	0.104		2
06145	Thallium		7440-28-0	0.880	0.0313	0.104		2
06148	Vanadium		7440-62-2	64.2	0.0230	0.104		2
06149	Zinc		7440-66-6	115	0.585	3.13		2
		SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury		7439-97-6	0.197	0.0029	0.102		1
Wet Chemistry		**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	9.6	0.84	1.1		1
		EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	520	9.5	31.6		1
		SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	35.3	1.1	5.3		5
Wet Chemistry		**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3		n.a.	5.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011 10:53	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011 15:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010 06:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 14:19	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 04:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 14:46	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1

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Sample Description: **SL-262-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166191
LLI Group # 1225779
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 12:34	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:14	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 08:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 08:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 08:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 08:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/08/2011 22:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 15:36	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 12:39	Nicole M Kepley	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1

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Sample Description: **SL-262-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166191
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166192
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	770		180	530		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,300	J	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,500		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,500		18	180		1
04688	Benzoic acid	65-85-0	1,100		180	530		1
04688	Benzyl alcohol	100-51-6	1,500		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		35	180		1
04688	4-Chloroaniline	106-47-8	780		70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,600		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	180		1
04688	Chrysene	218-01-9	1,700		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180		1
04688	Dibenzofuran	132-64-9	1,600		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,600		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700		35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,900		35	180		1
04688	Dimethylphthalate	131-11-3	1,600		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		180	530		1
04688	2,4-Dinitrophenol	51-28-5	1,900	J	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		18	350		1
04688	Fluoranthene	206-44-0	1,700		18	180		1
04688	Fluorene	86-73-7	1,600		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,100		180	530		1
04688	Hexachloroethane	67-72-1	1,600		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180		1
04688	Isophorone	78-59-1	1,600		18	180		1

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Sample Description: SL-262-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166192
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180		1
04688	2-Methylphenol	95-48-7	1,600	35	180		1
04688	4-Methylphenol	106-44-5	1,500	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,500	18	180		1
04688	2-Nitroaniline	88-74-4	1,800	18	180		1
04688	3-Nitroaniline	99-09-2	1,600	35	180		1
04688	4-Nitroaniline	100-01-6	1,300	70	180		1
04688	Nitrobenzene	98-95-3	1,800	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,800	180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	18	180		1
04688	Pentachlorophenol	87-86-5	1,500	180	530		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,600	18	180		1
04688	Pyrene	129-00-0	1,700	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	35	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.70	1.8		1
10138	Acenaphthylene	208-96-8	35	0.35	1.8		1
10138	Anthracene	120-12-7	34	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	37	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	34	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	33	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	31	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	44	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	40	6.3	19		1
10138	Chrysene	218-01-9	37	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	27	0.70	1.8		1
10138	Diethylphthalate	84-66-2	38	6.3	19		1
10138	Dimethylphthalate	131-11-3	36	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	55	6.3	19		1
10138	Fluoranthene	206-44-0	34	0.70	1.8		1
10138	Fluorene	86-73-7	34	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	32	0.70	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-262-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166192
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	29		0.70	1.8		1
10138	Naphthalene	91-20-3	30		0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	32		0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	40		6.3	19		1
10138	Phenanthrene	85-01-8	33		0.70	1.8		1
10138	Pyrene	129-00-0	37		0.70	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.6		1.3	3.8		1
10401	Dalapon	75-99-0	18		4.6	9.5		1
10401	2,4-DB	94-82-6	10		0.65	1.8		1
10401	Dicamba	1918-00-9	1.1	J	0.42	1.3		1
10401	Dinoseb	88-85-7	1.7	J	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.4		0.84	1.8		1
10401	MCPA	94-74-6	850		80	260		1
10401	MCPP (Mecoprop)	93-65-2	900		79	260		1
10401	2,4,5-T	93-76-5	0.54		0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.73		0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.25		0.070	0.18		1
01363	Alpha BHC	319-84-6	0.33		0.036	0.18		1
01363	Beta BHC	319-85-7	0.34		0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.35		0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.66		0.070	0.36		1
01363	p,p-DDE	72-55-9	0.73		0.070	0.36		1
01363	p,p-DDT	50-29-3	0.75		0.070	0.36		1
01363	Delta BHC	319-86-8	0.32		0.038	0.18		1
01363	Dieldrin	60-57-1	0.73		0.070	0.36		1
01363	Endosulfan I	959-98-8	0.27		0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.54		0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.57		0.070	0.36		1
01363	Endrin	72-20-8	0.60		0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.47		0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.60		0.070	0.36		1
01363	Heptachlor	76-44-8	0.39		0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.26		0.036	0.18		1
01363	Methoxychlor	72-43-5	4.0		0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-262-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166192
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	3.2	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	20		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	7.3		0.35	1.8		1
10225	PCB-1260	11096-82-5	23		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,600		5.20	20.7		1
07914	Boron	7440-42-8	194		0.920	5.17		1
01650	Calcium	7440-70-2	3,630		6.34	20.7		1
01654	Iron	7439-89-6	24,100		4.87	20.7		1
01656	Lithium	7439-93-2	122		0.23	2.1		1
01657	Magnesium	7439-95-4	5,030		2.63	10.3		1
06958	Manganese	7439-96-5	328		0.0807	0.517		1
10145	Phosphorus	7723-14-0	468		0.579	10.3		1
01662	Potassium	7440-09-7	4,110		18.6	51.7		1
01667	Sodium	7440-23-5	1,120		38.6	103		1
07968	Strontium	7440-24-6	116		0.0641	0.517		1
06969	Tin	7440-31-5	359		1.03	10.3		1
06970	Titanium	7440-32-6	1,610		0.786	2.07		2
10146	Zirconium	7440-67-7	98.9		0.869	5.17		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.959		0.0614	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.3		0.0614	0.410		2
06126	Barium	7440-39-3	137		0.111	0.410		2
06127	Beryllium	7440-41-7	1.61		0.0164	0.102		2
06128	Cadmium	7440-43-9	1.76		0.0369	0.102		2
06131	Chromium	7440-47-3	39.3		0.123	0.410		2
06132	Cobalt	7440-48-4	65.3		0.0205	0.102		2
06133	Copper	7440-50-8	23.4		0.0676	0.410		2
06135	Lead	7439-92-1	19.5		0.0107	0.205		2
06138	Molybdenum	7439-98-7	15.2		0.0512	0.102		2
06139	Nickel	7440-02-0	29.2		0.102	0.410		2
06141	Selenium	7782-49-2	3.00		0.0410	0.410		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166192
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06142	Silver	7440-22-4	13.5	0.0123	0.102		2
06145	Thallium	7440-28-0	0.872	0.0307	0.102		2
06148	Vanadium	7440-62-2	63.9	0.0225	0.102		2
06149	Zinc	7440-66-6	107	0.574	3.07		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.165	0.0029	0.103		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011	11:27	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011	16:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010	06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010	06:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010	14:47	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	04:26	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010	15:04	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010	06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010	01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010	12:17	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166192
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:17	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 12:38	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:17	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 08:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 08:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 08:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 08:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-262-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166193
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,900		5.15	20.5		1
07914	Boron	7440-42-8	0.911	U	0.911	5.12		1
01650	Calcium	7440-70-2	3,490		6.28	20.5		1
01654	Iron	7439-89-6	25,900		4.82	20.5		1
01656	Lithium	7439-93-2	28.1		0.23	2.0		1
01657	Magnesium	7439-95-4	5,860		2.60	10.2		1
06958	Manganese	7439-96-5	319		0.0799	0.512		1
10145	Phosphorus	7723-14-0	408		0.574	10.2		1
01662	Potassium	7440-09-7	3,240		18.4	51.2		1
01667	Sodium	7440-23-5	128		38.2	102		1
07968	Strontium	7440-24-6	20.9		0.0635	0.512		1
06969	Tin	7440-31-5	2.64	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,440		0.778	2.05		2
10146	Zirconium	7440-67-7	4.78	J	0.860	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0614	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.16		0.0614	0.410		2
06126	Barium	7440-39-3	108		0.111	0.410		2
06127	Beryllium	7440-41-7	0.625		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.205		0.0369	0.102		2
06131	Chromium	7440-47-3	23.6		0.123	0.410		2
06132	Cobalt	7440-48-4	6.33		0.0205	0.102		2
06133	Copper	7440-50-8	11.6		0.0676	0.410		2
06135	Lead	7439-92-1	12.4		0.0107	0.205		2
06138	Molybdenum	7439-98-7	0.702		0.0512	0.102		2
06139	Nickel	7440-02-0	15.6		0.102	0.410		2
06141	Selenium	7782-49-2	0.192	J	0.0410	0.410		2
06142	Silver	7440-22-4	0.109		0.0123	0.102		2
06145	Thallium	7440-28-0	0.269		0.0307	0.102		2
06148	Vanadium	7440-62-2	45.8		0.0225	0.102		2
06149	Zinc	7440-66-6	80.6		0.574	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	J	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-262-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166193
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	414	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.89	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3		n.a.	5.2	0.50	0.50		1
11626	28a Moisture Content by 160.3		n.a.	4.8	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010	12:30	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010	12:11	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010	08:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010	08:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010	08:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010	08:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010	08:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010	08:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010	08:48	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166193
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL262 SDG#: DE041-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 08:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 08:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 08:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 08:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 08:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 08:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 08:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 08:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 08:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/08/2011 22:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 15:13	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11011243201A	01/17/2011 13:19	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182102B	12/17/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039402B	12/17/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-302-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166194
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL302 SDG#: DE041-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-302-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166194
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL302 SDG#: DE041-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	51	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	1.6	J	0.38	1.9		1
10138	Anthracene	120-12-7	5.8		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	7.6		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	13		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	14		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	5.7		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.8		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	16		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.92	J	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.8	20		1
10138	Fluoranthene	206-44-0	14		0.75	1.9		1
10138	Fluorene	86-73-7	0.91	J	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.75	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.8	J	6.8	20		1
10138	Phenanthrene	85-01-8	9.7		0.75	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	5.8		0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.30		0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-302-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166194
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL302 SDG#: DE041-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	3.9	U	3.9	3.9		1
01363	p,p-DDD	72-54-8	1.7	U	1.7	1.7		1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.38		1
01363	p,p-DDT	50-29-3	0.88	U	0.88	0.88		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.31	U	0.31	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.080	U	0.080	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.82	U	0.82	0.82		1
01363	Endrin Ketone	53494-70-5	0.19	U	0.19	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	6.6		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.3		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		5.61	22.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-302-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166194
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL302 SDG#: DE041-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.992	U	0.992	5.57		1
01650	Calcium	7440-70-2	4,530		6.83	22.3		1
01654	Iron	7439-89-6	22,000		5.25	22.3		1
01656	Lithium	7439-93-2	18.0		0.25	2.2		1
01657	Magnesium	7439-95-4	4,540		2.83	11.1		1
06958	Manganese	7439-96-5	302		0.0870	0.557		1
10145	Phosphorus	7723-14-0	658		0.624	11.1		1
01662	Potassium	7440-09-7	3,220		20.1	55.7		1
01667	Sodium	7440-23-5	185		41.6	111		1
07968	Strontium	7440-24-6	27.5		0.0691	0.557		1
06969	Tin	7440-31-5	2.51	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,310		0.847	2.23		2
10146	Zirconium	7440-67-7	3.22	J	0.937	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.47		0.0662	0.442		2
06126	Barium	7440-39-3	197		0.119	0.442		2
06127	Beryllium	7440-41-7	0.471		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.401		0.0397	0.110		2
06131	Chromium	7440-47-3	21.8		0.132	0.442		2
06132	Cobalt	7440-48-4	7.99		0.0221	0.110		2
06133	Copper	7440-50-8	14.8		0.0729	0.442		2
06135	Lead	7439-92-1	32.4		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.437		0.0552	0.110		2
06139	Nickel	7440-02-0	17.3		0.110	0.442		2
06141	Selenium	7782-49-2	0.141	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.402		0.0132	0.110		2
06145	Thallium	7440-28-0	0.305		0.0331	0.110		2
06148	Vanadium	7440-62-2	54.2		0.0243	0.110		2
06149	Zinc	7440-66-6	129		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-302-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166194
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL302 SDG#: DE041-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	413	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.94	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011 12:36	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011 17:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010 06:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 20:45	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 04:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 15:23	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-302-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166194
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL302 SDG#: DE041-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 12:49	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:34	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/08/2011 22:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 16:22	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 13:43	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103A	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP06-SA5B-QC-121510 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166195
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP06 SDG#: DE041-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP06-SA5B-QC-121510 Soil**
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166195
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP06 SDG#: DE041-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.90	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	8.4		0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	9.9		0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	14		0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	7.5		0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	5.0		0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	14		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.1		0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.3	19		1
10138	Fluoranthene	206-44-0	7.1		0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.9		0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	3.4		0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	4.1		0.70	1.8		1
10138	Naphthalene	91-20-3	2.8		0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	7.0	J	6.3	19		1
10138	Phenanthrene	85-01-8	7.4		0.70	1.8		1
10138	Pyrene	129-00-0	9.1		0.70	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	5.9	U	5.9	5.9		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	790		80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP06-SA5B-QC-121510 Soil**
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166195
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP06 SDG#: DE041-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-T.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	1.9	U	1.9	1.9		1
01363	p,p-DDE	72-55-9	0.42	U	0.42	0.42		1
01363	p,p-DDT	50-29-3	0.75	U	0.75	0.75		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	1.4	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	1.3	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP06-SA5B-QC-121510 Soil**
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166195
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP06 SDG#: DE041-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		5.14	20.4		1
07914	Boron	7440-42-8	0.910	U	0.910	5.11		1
01650	Calcium	7440-70-2	3,240		6.26	20.4		1
01654	Iron	7439-89-6	23,500		4.81	20.4		1
01656	Lithium	7439-93-2	24.1		0.22	2.0		1
01657	Magnesium	7439-95-4	5,050		2.60	10.2		1
06958	Manganese	7439-96-5	287		0.0797	0.511		1
10145	Phosphorus	7723-14-0	378		0.572	10.2		1
01662	Potassium	7440-09-7	2,960		18.4	51.1		1
01667	Sodium	7440-23-5	114		38.1	102		1
07968	Strontium	7440-24-6	19.5		0.0634	0.511		1
06969	Tin	7440-31-5	2.59	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,360		0.777	2.04		2
10146	Zirconium	7440-67-7	3.29	J	0.858	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.216		0.0613	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.73		0.0613	0.409		2
06126	Barium	7440-39-3	145		0.110	0.409		2
06127	Beryllium	7440-41-7	0.793		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.209		0.0368	0.102		2
06131	Chromium	7440-47-3	30.9		0.123	0.409		2
06132	Cobalt	7440-48-4	8.88		0.0204	0.102		2
06133	Copper	7440-50-8	13.6		0.0675	0.409		2
06135	Lead	7439-92-1	16.1		0.0106	0.204		2
06138	Molybdenum	7439-98-7	0.885		0.0511	0.102		2
06139	Nickel	7440-02-0	19.5		0.102	0.409		2
06141	Selenium	7782-49-2	0.205	J	0.0409	0.409		2
06142	Silver	7440-22-4	0.0779	J	0.0123	0.102		2
06145	Thallium	7440-28-0	0.396		0.0307	0.102		2
06148	Vanadium	7440-62-2	59.2		0.0225	0.102		2
06149	Zinc	7440-66-6	112		0.572	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0331	J	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP06-SA5B-QC-121510 Soil**
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166195
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP06 SDG#: DE041-04FD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	400	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.93	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011	13:10	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/07/2011	13:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010	06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010	06:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010	22:08	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	04:54	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010	15:41	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010	06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010	01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010	12:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010	12:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010	12:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010	12:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010	12:37	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010	12:37	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA5B-QC-121510 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166195
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP06 SDG#: DE041-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:37	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 12:53	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:37	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/08/2011 23:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 17:08	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11011243201A	01/17/2011 14:07	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103A	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-263-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166196
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL263 SDG#: DE041-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzo(a)anthracene	56-55-3	28	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	45	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	27	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	49	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	150	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: **SL-263-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166196
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL263 SDG#: DE041-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenanthrene	85-01-8	24	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	65	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.0		0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.40	J	0.36	1.8		1
10138	Anthracene	120-12-7	4.5		0.36	1.8		1
10138	Benzo(a)pyrene	50-32-8	24		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	15		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.71	1.8		1
10138	Di-n-butylphthalate	84-74-2	56		6.4	19		1
10138	Dibenz(a,h)anthracene	53-70-3	4.7		0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	45		0.71	1.8		1
10138	Fluorene	86-73-7	1.1	J	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	2.0		0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	2.8		0.71	1.8		1
10138	Naphthalene	91-20-3	3.4		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	14	U	14	14		1
10401	Dicamba	1918-00-9	0.58	J	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	540		81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-263-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166196
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL263 SDG#: DE041-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	2.0	U	2.0	3.6		1
01363	p,p-DDD	72-54-8	0.70	U	0.70	0.70		1
01363	p,p-DDE	72-55-9	0.42	U	0.42	0.42		1
01363	p,p-DDT	50-29-3	0.86	U	0.86	0.86		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.19	U	0.19	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.32	U	0.32	0.32		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.54	U	0.54	0.54		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.0		2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.0		2
10225	Aroclor 5460	11126-42-4	41		2.1	7.0		2
10225	PCB-1016	12674-11-2	0.70	U	0.70	3.6		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6		2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6		2
10225	PCB-1248	12672-29-6	6.2		0.70	3.6		2
10225	PCB-1254	11097-69-1	15		0.70	3.6		2
10225	PCB-1260	11096-82-5	15		0.70	3.6		2
10225	PCB-1262	37324-23-5	0.70	U	0.70	3.6		2
10225	PCB-1268	11100-14-4	0.70	U	0.70	3.6		2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.21	20.7		1

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Sample Description: **SL-263-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166196
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL263 SDG#: DE041-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.921	U	0.921	5.18		1
01650	Calcium	7440-70-2	3,630		6.34	20.7		1
01654	Iron	7439-89-6	23,100		4.88	20.7		1
01656	Lithium	7439-93-2	19.5		0.23	2.1		1
01657	Magnesium	7439-95-4	5,380		2.63	10.4		1
06958	Manganese	7439-96-5	280		0.0807	0.518		1
10145	Phosphorus	7723-14-0	531		0.580	10.4		1
01662	Potassium	7440-09-7	3,530		18.6	51.8		1
01667	Sodium	7440-23-5	106		38.6	104		1
07968	Strontium	7440-24-6	18.9		0.0642	0.518		1
06969	Tin	7440-31-5	2.39	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,270		0.787	2.07		2
10146	Zirconium	7440-67-7	4.27	J	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.272		0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.58		0.0633	0.422		2
06126	Barium	7440-39-3	108		0.114	0.422		2
06127	Beryllium	7440-41-7	0.599		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.583		0.0380	0.106		2
06131	Chromium	7440-47-3	25.6		0.127	0.422		2
06132	Cobalt	7440-48-4	8.19		0.0211	0.106		2
06133	Copper	7440-50-8	16.0		0.0697	0.422		2
06135	Lead	7439-92-1	38.4		0.0110	0.211		2
06138	Molybdenum	7439-98-7	1.24		0.0528	0.106		2
06139	Nickel	7440-02-0	16.0		0.106	0.422		2
06141	Selenium	7782-49-2	0.195	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.136		0.0127	0.106		2
06145	Thallium	7440-28-0	0.299		0.0317	0.106		2
06148	Vanadium	7440-62-2	53.8		0.0232	0.106		2
06149	Zinc	7440-66-6	139		0.591	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.21	1.1		1

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Sample Description: **SL-263-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166196
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

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Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL263 SDG#: DE041-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	428	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.46	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011	13:45	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/07/2011	13:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010	06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010	06:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010	22:36	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011	22:01	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	05:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010	16:00	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010	06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010	01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010	12:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010	12:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010	12:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010	12:41	Eric L Eby	1

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Sample Description: **SL-263-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166196
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SL263 SDG#: DE041-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 12:57	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:41	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/08/2011 23:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 17:31	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 14:31	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103A	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-264-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-264-SA5B-SS-0.0-0.5

LLI Sample # SW 6166197
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:05 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE041-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Suite 210
Chantilly VA 20151

SL264 SDG#: DE041-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.93	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	5.5		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.2		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	7.0		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.7		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	10		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.4	19		1
10138	Fluoranthene	206-44-0	5.0		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	4.2		0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	5.1		0.71	1.8		1
10138	Naphthalene	91-20-3	3.3		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	12	J	6.4	19		1
10138	Phenanthrene	85-01-8	9.0		0.71	1.8		1
10138	Pyrene	129-00-0	7.2		0.71	1.8		1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	4.8	U	4.8	4.8		1
10401	Dicamba	1918-00-9	0.54	J	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	100	U	100	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB

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SL264 SDG#: DE041-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4,5-TP.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.060	U	0.060	0.18		1
01363	Beta BHC	319-85-7	0.11	U	0.11	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.098	U	0.098	0.18		1
01363	Chlordane	57-74-9	2.7	U	2.7	3.6		1
01363	p,p-DDD	72-54-8	3.3	U	3.3	3.3		1
01363	p,p-DDE	72-55-9	0.49	U	0.49	0.49		1
01363	p,p-DDT	50-29-3	0.74	U	0.74	0.74		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.68	U	0.68	0.68		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.20	U	0.20	0.20		1
01363	Methoxychlor	72-43-5	0.77	U	0.77	1.8		1
01363	Mirex	2385-85-5	0.43	U	0.43	0.43		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.73	J	0.35	1.8		1
10225	PCB-1254	11097-69-1	1.1	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.61	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1

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SL264 SDG#: DE041-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.29	21.0		1
07914	Boron	7440-42-8	0.935	U	0.935	5.25		1
01650	Calcium	7440-70-2	3,490		6.44	21.0		1
01654	Iron	7439-89-6	22,200		4.95	21.0		1
01656	Lithium	7439-93-2	33.4		0.23	2.1		1
01657	Magnesium	7439-95-4	4,880		2.67	10.5		1
06958	Manganese	7439-96-5	294		0.0820	0.525		1
10145	Phosphorus	7723-14-0	450		0.588	10.5		1
01662	Potassium	7440-09-7	2,680		18.9	52.5		1
01667	Sodium	7440-23-5	90.8	J	39.2	105		1
07968	Strontium	7440-24-6	14.9		0.0651	0.525		1
06969	Tin	7440-31-5	2.85	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,390		0.799	2.10		2
10146	Zirconium	7440-67-7	2.80	J	0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.449		0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	25.3		0.0630	0.420		2
06126	Barium	7440-39-3	119		0.113	0.420		2
06127	Beryllium	7440-41-7	0.678		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.214		0.0378	0.105		2
06131	Chromium	7440-47-3	29.0		0.126	0.420		2
06132	Cobalt	7440-48-4	8.19		0.0210	0.105		2
06133	Copper	7440-50-8	13.4		0.0694	0.420		2
06135	Lead	7439-92-1	17.2		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.995		0.0525	0.105		2
06139	Nickel	7440-02-0	20.3		0.105	0.420		2
06141	Selenium	7782-49-2	0.167	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.175		0.0126	0.105		2
06145	Thallium	7440-28-0	0.415		0.0315	0.105		2
06148	Vanadium	7440-62-2	50.2		0.0231	0.105		2
06149	Zinc	7440-66-6	111		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.6	U	9.6	32.2		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	1.0	J	0.21	1.1		1
		ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential		n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C		n.a.	7.10		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3		n.a.	6.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011	14:19	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011	19:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010	06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010	06:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010	23:03	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011	23:24	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011	05:22	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010	16:18	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010	06:30	Kerrie A Freeburn	1

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04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 13:08	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/08/2011 23:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 18:41	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 14:47	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103A	12/17/2010 14:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-264-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-264-SA5B-SS-0.0-0.5

LLI Sample # SW 6166197
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:05 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE041-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	50		7.7	9.1		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.6		0.96
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		0.96
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		0.96
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		0.96
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		0.96
06192	2-Butanone	78-93-3	7.7	J	1.4	9.1		0.96
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		0.96
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		0.96
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		0.96
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		0.96
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		0.96
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		0.96
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		0.96
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		0.96
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		0.96
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		0.96
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		0.96
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		0.96
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		0.96
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		0.96
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		0.96
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		0.96
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		0.96
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		0.96
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		0.96
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.1		0.96
06192	Methylene Chloride	75-09-2	1.4	J	0.27	4.6		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		0.96
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.6		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		0.96
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		0.96
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		0.96
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		0.96
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		24.08
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	29.9	J	19.9	39.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400		1

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Sample Description: SL-027-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-027-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		25.99
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90	U	90	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	75	U	75	180	10000000	1
10132	Tetryl	479-45-8	92	U	92	180	10000000	1

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Sample Description: SL-027-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.3	U	5.3	11		1
10401	2,4-DB	94-82-6	1.4	J	0.74	2.0		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4		1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0		1
10401	MCPA	94-74-6	340		91	300		1
10401	MCPP (Mecoprop)	93-65-2	310		90	300		1
10401	2,4,5-T	93-76-5	0.27		0.098	0.20		1
10401	2,4,5-TP	93-72-1	0.090	U	0.090	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	2,400		720	1,800		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20		1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20		1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20		1
01363	Chlordane	57-74-9	0.96	U	0.96	4.1		1
01363	p,p-DDD	72-54-8	0.079	U	0.079	0.41		1
01363	p,p-DDE	72-55-9	0.28	J	0.079	0.41		1
01363	p,p-DDT	50-29-3	0.079	U	0.079	0.41		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.41		1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20		1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.41		1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41		1
01363	Endrin	72-20-8	0.079	U	0.079	0.41		1
01363	Endrin Aldehyde	7421-93-4	0.079	U	0.079	0.41		1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.41		1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20		1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0		1
01363	Mirex	2385-85-5	0.079	U	0.079	0.41		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9		1

The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

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Sample Description: **SL-027-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	1.9		0.48	1.4		1
10199	EFH (C21-C30)	n.a.	19		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	37		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	170	J	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,800		5.96	23.7		1
07914	Boron	7440-42-8	1.05	U	1.05	5.92		1
01650	Calcium	7440-70-2	9,940		7.26	23.7		1

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Sample Description: **SL-027-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	22,800		5.58	23.7		1
01656	Lithium	7439-93-2	28.4		0.26	2.4		1
01657	Magnesium	7439-95-4	5,380		3.01	11.8		1
06958	Manganese	7439-96-5	334		0.0924	0.592		1
10145	Phosphorus	7723-14-0	363		0.663	11.8		1
01662	Potassium	7440-09-7	3,930		21.3	59.2		1
01667	Sodium	7440-23-5	129		44.2	118		1
07968	Strontium	7440-24-6	21.6		0.0734	0.592		1
06969	Tin	7440-31-5	2.74	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,350		0.900	2.37		2
10146	Zirconium	7440-67-7	3.41	J	0.995	5.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0704	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.75		0.0704	0.469		2
06126	Barium	7440-39-3	123		0.127	0.469		2
06127	Beryllium	7440-41-7	0.700		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.180		0.0422	0.117		2
06131	Chromium	7440-47-3	24.1		0.141	0.469		2
06132	Cobalt	7440-48-4	7.70		0.0235	0.117		2
06133	Copper	7440-50-8	9.69		0.0774	0.469		2
06135	Lead	7439-92-1	7.10		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.566		0.0586	0.117		2
06139	Nickel	7440-02-0	14.3		0.117	0.469		2
06141	Selenium	7782-49-2	0.0695	J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0150	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.401		0.0352	0.117		2
06148	Vanadium	7440-62-2	48.2		0.0258	0.117		2
06149	Zinc	7440-66-6	96.9		0.657	3.52		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96	U	0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-027-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.61		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	418		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	16.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-027-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010	22:01	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	14:00	Jason M Long	24.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010	18:01	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023334	12/16/2010	19:14	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023334	12/16/2010	19:14	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023334	12/16/2010	17:58	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011	20:23	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011	14:54	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011	19:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010	08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010	06:45	Kerrie A Freeburn	1

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Sample Description: **SL-027-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
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20745 SDG#: DE041-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 17:55	Elizabeth J Marin	25.99
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 17:56	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 14:30	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 01:31	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 23:31	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 23:52	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 07:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 16:37	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 19:06	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103510008A	12/17/2010 23:41	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 17:56	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 03:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103510008A	12/17/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-027-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166198
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20745 SDG#: DE041-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 13:11	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:48	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/08/2011 23:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007203A	01/08/2011 23:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 17:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 15:03	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103A	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	26		7.4	8.8		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1
06192	2-Butanone	78-93-3	2.7	J	1.3	8.8		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		1
06192	Methylene Chloride	75-09-2	0.95	J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

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Sample Description: SL-027-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.22
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	99.0		36.6	73.2		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-027-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.0	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-027-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.2	J	6.6	20		1
10138	Phenanthrene	85-01-8	0.94	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.4	J	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.54
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1

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Sample Description: **SL-027-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	3.2		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	710		83	270		1
10401	MCPP (Mecoprop)	93-65-2	320		82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	3,700		660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.072	U	0.072	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.11	J	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1

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Sample Description: SL-027-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	3.5		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	9.2		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	270	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,100		5.31	21.1		1
07914	Boron	7440-42-8	0.939	U	0.939	5.28		1
01650	Calcium	7440-70-2	2,180		6.47	21.1		1
01654	Iron	7439-89-6	19,400		4.97	21.1		1
01656	Lithium	7439-93-2	27.2		0.23	2.1		1
01657	Magnesium	7439-95-4	3,740		2.68	10.6		1
06958	Manganese	7439-96-5	380		0.0823	0.528		1

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Sample Description: SL-027-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	174		0.591	10.6		1
01662	Potassium	7440-09-7	2,100		19.0	52.8		1
01667	Sodium	7440-23-5	121		39.4	106		1
07968	Strontium	7440-24-6	12.5		0.0654	0.528		1
06969	Tin	7440-31-5	2.50	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,170		0.802	2.11		2
10146	Zirconium	7440-67-7	1.83	J	0.887	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0942	J	0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.43		0.0652	0.435		2
06126	Barium	7440-39-3	89.6		0.117	0.435		2
06127	Beryllium	7440-41-7	0.815		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0432	J	0.0391	0.109		2
06131	Chromium	7440-47-3	14.9		0.130	0.435		2
06132	Cobalt	7440-48-4	6.34		0.0217	0.109		2
06133	Copper	7440-50-8	5.44		0.0717	0.435		2
06135	Lead	7439-92-1	6.42		0.0113	0.217		2
06138	Molybdenum	7439-98-7	1.17		0.0543	0.109		2
06139	Nickel	7440-02-0	8.79		0.109	0.435		2
06141	Selenium	7782-49-2	0.203	J	0.0435	0.435		2
06142	Silver	7440-22-4	0.0296	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.312		0.0326	0.109		2
06148	Vanadium	7440-62-2	36.2		0.0239	0.109		2
06149	Zinc	7440-66-6	68.1		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0224	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	J	0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	414		10.0	10.0		1

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Sample Description: **SL-027-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.71	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-027-SA5C-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 22:24	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 14:20	Jason M Long	24.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 18:42	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023334	12/16/2010 19:14	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023334	12/16/2010 19:14	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023334	12/16/2010 18:39	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/06/2011 10:17	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011 15:29	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011 20:09	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 18:31	Elizabeth J Marin	26.54

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Sample Description: SL-027-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
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20791 SDG#: DE041-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 18:37	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 15:12	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 01:41	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 23:59	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 07:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 16:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 16:36	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103510008A	12/17/2010 23:56	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 18:44	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 04:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103510008A	12/17/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 13:15	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:51	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-027-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166199
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20791 SDG#: DE041-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/09/2011 00:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007203A	01/09/2011 00:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 18:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 15:19	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103A	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-121510 Water
SSFL Area IV Collocated Soil Sampling
TB-121510

LLI Sample # WW 6166200
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 08:00

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB215 SDG#: DE041-09TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-121510 Water
SSFL Area IV Collocated Soil Sampling
TB-121510

LLI Sample # WW 6166200
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 08:00

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB215 SDG#: DE041-09TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103512AA	12/18/2010	00:46	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103502AA	12/16/2010	20:12	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103502AA	12/16/2010	20:12	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103512AA	12/18/2010	00:46	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10354A53A	12/20/2010	23:57	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10354A53A	12/20/2010	23:57	Martha L Seidel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB03-SA5B-121510 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5B-121510

LLI Sample # WW 6166201
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:15 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE041-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	63		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB03-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5B-121510

LLI Sample # WW 6166201
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:15 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE041-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,3-dichlorobenzene
1,4-dichlorobenzene

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.0099	U	0.0099	0.050		1
10137	Acenaphthylene	208-96-8	0.0099	U	0.0099	0.050		1
10137	Anthracene	120-12-7	0.0099	U	0.0099	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.0099	U	0.0099	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.0099	U	0.0099	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.0099	U	0.0099	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0099	U	0.0099	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.0099	U	0.0099	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.060	J	0.050	0.99		1
10137	Di-n-butylphthalate	84-74-2	0.33	J	0.050	0.99		1
10137	Chrysene	218-01-9	0.0099	U	0.0099	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0099	U	0.0099	0.050		1
10137	Diethylphthalate	84-66-2	0.13	J	0.050	0.99		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	0.99		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.15	J	0.050	0.99		1
10137	Fluoranthene	206-44-0	0.0099	U	0.0099	0.050		1
10137	Fluorene	86-73-7	0.0099	U	0.0099	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0099	U	0.0099	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.0099	U	0.0099	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.0099	U	0.0099	0.050		1
10137	Naphthalene	91-20-3	0.036	J	0.0099	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.0099	U	0.0099	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.079	J	0.050	0.99		1
10137	Phenanthrene	85-01-8	0.0099	U	0.0099	0.050		1
10137	Pyrene	129-00-0	0.0099	U	0.0099	0.050		1

Butylbenzylphthalate was detected in the method blank at a concentration of .055 ug/l. The blank value was not subtracted from the analytical result.

The recoveries of several compounds were outside of QC limits in the LCS/LCSD associated with this sample. Sufficient sample was unavailable to repeat the analysis.

Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.16	U	0.16	0.51		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.082	U	0.082	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.51		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.51		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB03-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5B-121510

LLI Sample # WW 6166201
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:15 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE041-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	51	U	51	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.051		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.051		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.020	U	0.020	0.020		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.51		1
00177	p,p-DDD	72-54-8	0.0051	U	0.0051	0.020		1
00177	p,p-DDE	72-55-9	0.016	J	0.0051	0.020		1
00177	p,p-DDT	50-29-3	0.0051	U	0.0051	0.020		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0054	U	0.0054	0.020		1
00177	Endosulfan I	959-98-8	0.0044	U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0059	U	0.0059	0.020		1
00177	Endrin	72-20-8	0.0083	U	0.0083	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.10		1
00177	Endrin Ketone	53494-70-5	0.0051	U	0.0051	0.020		1
00177	Heptachlor	76-44-8	0.0027	U	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031	U	0.031	0.10		1
00177	Mirex	2385-85-5	0.087	U	0.087	0.26		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.1		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: beta-BHC.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.51		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB03-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5B-121510

LLI Sample # WW 6166201
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:15 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE041-10EB

CAT No.	Analysis Name		CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum		7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron		7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium		7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron		7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium		7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium		7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese		7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus		7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium		7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium		7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium		7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin		7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium		7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium		7440-67-7	0.0206	U	0.0206	0.0500		1
		SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony		7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic		7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium		7440-39-3	0.00038	U	0.00038	0.0020		1
06027	Beryllium		7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium		7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium		7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt		7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper		7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead		7439-92-1	0.00012	J	0.000052	0.0010		1
06038	Molybdenum		7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel		7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium		7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver		7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium		7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium		7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc		7440-66-6	0.0040	U	0.0040	0.0150		1
		SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury		7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry		**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride		16984-48-8	0.080	U	0.080	0.10		1
		EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0		14797-73-0	0.70	U	0.70	2.0		1
		SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199		18540-29-9	5.0	U	5.0	10.0		1
		SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B		n.a.	5.6		0.010	0.010		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB03-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5B-121510

LLI Sample # WW 6166201
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:15 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE041-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10354WAM026	01/15/2011 09:19	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350WAH026	01/04/2011 16:57	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10354WAM026	12/21/2010 08:30	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10350WAH026	12/17/2010 10:00	Olivia Arosemena	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103500036A	12/20/2010 01:14	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	12/23/2010 17:07	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	01/05/2011 19:04	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103550012A	12/31/2010 08:59	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103550012A	12/21/2010 18:10	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103550011A	12/21/2010 18:10	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103500036A	12/17/2010 12:30	Olivia I Santiago	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 17:06	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 17:06	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:16	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:24	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB03-SA5B-121510 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5B-121510

LLI Sample # WW 6166201
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:15 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-03 SDG#: DE041-10EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:24	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:24	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:24	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10355196901A	12/21/2010 08:26	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/18/2010 16:11	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10350113301A	12/16/2010 11:13	Nicole M Kepley	1
00200	22b pH by 9040B	SW-846 9040B	1	10351020001A	12/17/2010 19:45	Luz M Groff	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB15-SA5B-121510 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166202
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE041-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB15-SA5B-121510 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166202
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE041-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB15-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166202
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE041-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,3-dichlorobenzene 1,4-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.057		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.057		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.057		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.057		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.057		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.057		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.057		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.057		1
10137	Butylbenzylphthalate	85-68-7	0.066	J	0.057	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.18	J	0.057	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.057		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.057		1
10137	Diethylphthalate	84-66-2	0.12	J	0.057	1.1		1
10137	Dimethylphthalate	131-11-3	0.057	U	0.057	1.1		1

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Sample Description: **EB15-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166202
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE041-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.19	J	0.057	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.057		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.057		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.057		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.057		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.057		1
10137	Naphthalene	91-20-3	0.030	J	0.011	0.057		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.057		1
10137	Di-n-octylphthalate	117-84-0	0.088	J	0.057	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.057		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.057		1

Butylbenzylphthalate was detected in the method blank at a concentration of .055 ug/l. The blank value was not subtracted from the analytical result.

The recoveries of several compounds were outside of QC limits in the LCS/LCSD associated with this sample. Sufficient sample was unavailable to repeat the analysis.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54		1
10407	Dalapon	75-99-0	0.27	U	0.27	1.3		1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1		1
10407	Dicamba	1918-00-9	0.086	U	0.086	0.32		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54		1
10407	MCPA	94-74-6	320	U	320	1,100		1
10407	MCPP	93-65-2	54	U	54	220		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0060	U	0.0060	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.52		1
00177	p,p-DDD	72-54-8	0.0052	U	0.0052	0.021		1
00177	p,p-DDE	72-55-9	0.0099	J	0.0052	0.021		1
00177	p,p-DDT	50-29-3	0.0052	U	0.0052	0.021		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0055	U	0.0055	0.021		1
00177	Endosulfan I	959-98-8	0.0044	U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0060	U	0.0060	0.021		1

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Sample Description: **EB15-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166202
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE041-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
00177	Endrin	72-20-8	0.0084 U	0.0084	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021 U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0052 U	0.0052	0.021		1
00177	Heptachlor	76-44-8	0.0027 U	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024 U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031 U	0.031	0.10		1
00177	Mirex	2385-85-5	0.087 U	0.087	0.26		1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.1		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: beta-BHC.						
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.10 U	0.10	0.52		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1

*=This limit was used in the evaluation of the final result
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Sample Description: **EB15-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166202
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE041-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	5.3	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103512AA	12/18/2010 01:07	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103502AA	12/16/2010 20:31	Sara E Johnson	1

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Sample Description: EB15-SA5B-121510 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166202
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE041-11EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103502AA	12/16/2010 20:31	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103512AA	12/18/2010 01:07	Frank A Valla, Jr	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10354WAM026	01/15/2011 09:44	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350WAH026	01/04/2011 17:31	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10354WAM026	12/21/2010 08:30	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10350WAH026	12/17/2010 10:00	Olivia Arosemena	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10354A53A	12/21/2010 00:21	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10354A53A	12/21/2010 00:21	Martha L Seidel	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103500036A	12/20/2010 01:42	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	12/23/2010 17:18	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	01/05/2011 19:16	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103550012A	12/31/2010 09:17	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103550012A	12/21/2010 18:10	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103550011A	12/21/2010 18:10	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103500036A	12/17/2010 12:30	Olivia I Santiago	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 17:10	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 17:10	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:20	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:27	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:27	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:27	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB15-SA5B-121510 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166202
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE041-11EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:27	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10355196901A	12/21/2010 08:41	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/18/2010 16:36	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10350113301A	12/16/2010 11:26	Nicole M Kepley	1
00200	22b pH by 9040B	SW-846 9040B	1	10351020001B	12/17/2010 19:45	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-298-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29845 SDG#: DE041-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	130		7.8	9.4		1.03
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.03
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7		1.03
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.03
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7		1.03
06192	2-Butanone	78-93-3	18		1.4	9.4		1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.03
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7		1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7		1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.03
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7		1.03
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7		1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7		1.03
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.03
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.03
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.03
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.03
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.03
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7		1.03
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7		1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.03
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7		1.03
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.4		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.7		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.4		1.03
06192	Methylene Chloride	75-09-2	1.3	J	0.28	4.7		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.03

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Sample Description: SL-298-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29845 SDG#: DE041-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7		1.03
06192	Toluene	108-88-3	0.09	U	0.09	4.7		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7		1.03
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.03
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7		1.03
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7		1.03
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		22.73
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	60.8		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-298-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29845 SDG#: DE041-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.56	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	J	6.8	20		1
10138	Fluoranthene	206-44-0	1.3	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-298-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29845 SDG#: DE041-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	1.3	J	0.76	1.9		1
10138	Pyrene	129-00-0	0.97	J	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.6
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85	U	85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	71	U	71	170	10000000	1
10132	Tetryl	479-45-8	87	U	87	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1

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Sample Description: SL-298-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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29845 SDG#: DE041-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	2.6	J	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	2.3	U	2.3	2.3		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	150	U	150	280		1
10401	MCPP (Mecoprop)	93-65-2	390		85	280		1
10401	2,4,5-T	93-76-5	0.55		0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

The LCS recovery for 2,4-D is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. The results between extractions were slightly dissimilar because of the homogeneity of the sample.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	14,000		1,400	3,400		2
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.19	J	0.075	0.39		1
01363	p,p-DDT	50-29-3	0.075	U	0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39		1

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Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29845 SDG#: DE041-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	The surrogate TCX recovery in the LCS is outside the QC limits. The TCX and DCB surrogate is also outside the QC limits in the sample. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.0	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	9.2		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	15		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29845 SDG#: DE041-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.59	22.2		1
07914	Boron	7440-42-8	0.989	U	0.989	5.56		1
01650	Calcium	7440-70-2	2,830		6.81	22.2		1
01654	Iron	7439-89-6	26,000		5.24	22.2		1
01656	Lithium	7439-93-2	24.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,020		2.82	11.1		1
06958	Manganese	7439-96-5	292		0.0867	0.556		1
10145	Phosphorus	7723-14-0	380		0.622	11.1		1
01662	Potassium	7440-09-7	3,090		20.0	55.6		1
01667	Sodium	7440-23-5	185		41.5	111		1
07968	Strontium	7440-24-6	22.3		0.0689	0.556		1
06969	Tin	7440-31-5	2.91	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,560		0.845	2.22		2
10146	Zirconium	7440-67-7	4.17	J	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.07		0.0674	0.449		2
06126	Barium	7440-39-3	156		0.121	0.449		2
06127	Beryllium	7440-41-7	0.984		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.155		0.0404	0.112		2
06131	Chromium	7440-47-3	27.5		0.135	0.449		2
06132	Cobalt	7440-48-4	7.77		0.0225	0.112		2
06133	Copper	7440-50-8	10.3		0.0741	0.449		2
06135	Lead	7439-92-1	8.72		0.0117	0.225		2
06138	Molybdenum	7439-98-7	1.05		0.0561	0.112		2
06139	Nickel	7440-02-0	15.6		0.112	0.449		2
06141	Selenium	7782-49-2	0.138	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0643	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.404		0.0337	0.112		2
06148	Vanadium	7440-62-2	53.5		0.0247	0.112		2
06149	Zinc	7440-66-6	76.8		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.91	1.7		1

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Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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29845 SDG#: DE041-12

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.55	J	0.23	1.1		1
	SW-846 9012B			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498			**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	401		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
	SW-846 9045C modified			**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.44		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	11.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-298-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 22:46	Laura M Krieger	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 14:40	Jason M Long	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 18:49	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023334	12/16/2010 19:14	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023334	12/16/2010 19:14	Christopher M Klumpp	n.a.

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Sample Description: SL-298-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

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29845 SDG#: DE041-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023334	12/16/2010 18:46	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 21:02	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011 16:03	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011 20:41	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 19:07	Elizabeth J Marin	26.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 18:45	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 15:54	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 23:16	Michele D Hamilton	2
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/30/2010 00:26	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/06/2011 00:19	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 07:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 17:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 17:01	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103510008A	12/18/2010 00:10	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 18:12	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 04:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103510008A	12/17/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1

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Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29845 SDG#: DE041-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 13:19	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:55	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/09/2011 00:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007203A	01/09/2011 00:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 19:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 15:35	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:36	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103A	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166203
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29845 SDG#: DE041-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-298-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29891 SDG#: DE041-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	46		7.7	9.2		1.08
06192	Benzene	71-43-2	0.11	U	0.11	4.6		1.08
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.08
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.08
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.08
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.08
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.08
06192	2-Butanone	78-93-3	3.5	J	1.4	9.2		1.08
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.08
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.08
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.08
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.08
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.08
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.08
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		1.08
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.08
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.08
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.08
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.08
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.08
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		1.08
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.08
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.08
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.08
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.08
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.08
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.08
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.08
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		1.08
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.08
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.08
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.08
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.08
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.08
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.08
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.08
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.08
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.08
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.08
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.08
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.08
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.08
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.08
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1.08
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.08
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.08
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.08
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1.08
06192	Methylene Chloride	75-09-2	1.2	J	0.28	4.6		1.08
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.08

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Sample Description: SL-298-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29891 SDG#: DE041-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		1.08
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.08
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.08
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.08
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.08
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.08
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.08
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.08
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.08
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.08
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.08
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.08
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.08
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		1.08
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.08
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1.08
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.08
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	56.4		17.7	35.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1

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Sample Description: SL-298-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29891 SDG#: DE041-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: SL-298-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29891 SDG#: DE041-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80	U	80	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53	U	53	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	320	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	320	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	53	U	53	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	53	U	53	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	53	U	53	160	10000000	1
10132	HMX	2691-41-0	130	U	130	400	10000000	1
10132	Nitrobenzene	98-95-3	53	U	53	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,200	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,200	10000000	1
10132	RDX	121-82-4	66	U	66	160	10000000	1
10132	Tetryl	479-45-8	81	U	81	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	53	U	53	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	53	U	53	160	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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29891 SDG#: DE041-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	2.6	J	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	3.8		0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	1,400		81	270		1
10401	MCPP (Mecoprop)	93-65-2	650		80	270		1
10401	2,4,5-T	93-76-5	0.20		0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.19	U	0.19	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

The LCS recovery for 2,4-D is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. The results between extractions were slightly dissimilar because of the homogeneity of the sample.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	9,200		1,300	3,200		2
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1

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Sample Description: SL-298-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29891 SDG#: DE041-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.097	J	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.46	J	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.59	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
	The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	290	J	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
	The stated QC limits are advisory only until sufficient data points							

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Sample Description: SL-298-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29891 SDG#: DE041-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		5.35	21.3		1
07914	Boron	7440-42-8	0.947	U	0.947	5.32		1
01650	Calcium	7440-70-2	1,620		6.52	21.3		1
01654	Iron	7439-89-6	17,100		5.01	21.3		1
01656	Lithium	7439-93-2	23.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,660		2.70	10.6		1
06958	Manganese	7439-96-5	230		0.0830	0.532		1
10145	Phosphorus	7723-14-0	229		0.596	10.6		1
01662	Potassium	7440-09-7	2,290		19.1	53.2		1
01667	Sodium	7440-23-5	82.2	J	39.7	106		1
07968	Strontium	7440-24-6	8.87		0.0660	0.532		1
06969	Tin	7440-31-5	2.51	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,040		0.809	2.13		2
10146	Zirconium	7440-67-7	1.68	J	0.894	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0632	U	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.27		0.0632	0.421		2
06126	Barium	7440-39-3	57.8		0.114	0.421		2
06127	Beryllium	7440-41-7	0.495		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.110		0.0379	0.105		2
06131	Chromium	7440-47-3	15.4		0.126	0.421		2
06132	Cobalt	7440-48-4	4.89		0.0211	0.105		2
06133	Copper	7440-50-8	5.24		0.0695	0.421		2
06135	Lead	7439-92-1	4.83		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.553		0.0527	0.105		2
06139	Nickel	7440-02-0	8.47		0.105	0.421		2
06141	Selenium	7782-49-2	0.181	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0139	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.291		0.0316	0.105		2
06148	Vanadium	7440-62-2	34.5		0.0232	0.105		2
06149	Zinc	7440-66-6	66.1		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.85	U	0.85	1.6		1

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Sample Description: SL-298-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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29891 SDG#: DE041-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	389		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-298-SA5C-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 23:08	Laura M Krieger	1.08
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 15:00	Jason M Long	24.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 18:56	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023334	12/16/2010 19:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023334	12/16/2010 19:15	Christopher M Klumpp	n.a.

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Sample Description: **SL-298-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
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Project Name: SSFL Area IV Collocated Soil Sampling

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29891 SDG#: DE041-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023334	12/16/2010 18:53	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 21:19	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011 16:38	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011 21:12	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 16:41	Elizabeth J Marin	25.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 18:51	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 16:37	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 23:26	Michele D Hamilton	2
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/30/2010 00:54	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/06/2011 00:47	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103500020A	12/21/2010 18:34	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 07:43	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 17:32	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103500020A	12/17/2010 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 14:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103510008A	12/18/2010 00:25	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 19:32	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 05:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103510008A	12/17/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-298-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29891 SDG#: DE041-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 13:23	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 12:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203A	01/09/2011 00:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007203A	01/09/2011 00:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202A	01/07/2011 19:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 15:51	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007001203A	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202A	01/05/2011 21:30	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1

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Sample Description: **SL-298-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-9.0-10.0

LLI Sample # SW 6166204
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29891 SDG#: DE041-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103A	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Sample Description: SL-297-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29745 SDG#: DE041-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	24		7.0	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.2		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	3.4	J	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.9
06192	Methylene Chloride	75-09-2	1.2	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-297-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29745 SDG#: DE041-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	J	4.6	14		20.1
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	69.4		19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1

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Sample Description: SL-297-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29745 SDG#: DE041-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-297-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29745 SDG#: DE041-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.76
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U	86	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	58	U	58	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	350	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	350	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	58	U	58	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	58	U	58	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	58	U	58	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	58	U	58	170	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,500	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	170	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,500	10000000	1
10132	RDX	121-82-4	72	U	72	170	10000000	1
10132	Tetryl	479-45-8	88	U	88	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	58	U	58	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	58	U	58	170	10000000	1

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Sample Description: SL-297-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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29745 SDG#: DE041-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	2.5	U	2.5	2.5		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	220	J	88	290		1
10401	MCPP (Mecoprop)	93-65-2	180	J	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	920	J	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.19	J	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.23	J	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.076	U	0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

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Sample Description: SL-297-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29745 SDG#: DE041-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	3.5		0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	4.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	12		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
	The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	170	J	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.63	22.4		1
07914	Boron	7440-42-8	0.995	U	0.995	5.59		1
01650	Calcium	7440-70-2	2,820		6.86	22.4		1
01654	Iron	7439-89-6	23,200		5.27	22.4		1

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Sample Description: **SL-297-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29745 SDG#: DE041-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	23.3		0.25	2.2		1
01657	Magnesium	7439-95-4	4,660		2.84	11.2		1
06958	Manganese	7439-96-5	314		0.0872	0.559		1
10145	Phosphorus	7723-14-0	358		0.626	11.2		1
01662	Potassium	7440-09-7	2,740		20.1	55.9		1
01667	Sodium	7440-23-5	166		41.7	112		1
07968	Strontium	7440-24-6	22.9		0.0693	0.559		1
06969	Tin	7440-31-5	2.73	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,510		0.850	2.24		2
10146	Zirconium	7440-67-7	3.78	J	0.940	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.336		0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.1		0.0678	0.452		2
06126	Barium	7440-39-3	161		0.122	0.452		2
06127	Beryllium	7440-41-7	1.04		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.564		0.0407	0.113		2
06131	Chromium	7440-47-3	45.6		0.136	0.452		2
06132	Cobalt	7440-48-4	11.9		0.0226	0.113		2
06133	Copper	7440-50-8	22.9		0.0745	0.452		2
06135	Lead	7439-92-1	15.6		0.0117	0.226		2
06138	Molybdenum	7439-98-7	1.01		0.0565	0.113		2
06139	Nickel	7440-02-0	24.8		0.113	0.452		2
06141	Selenium	7782-49-2	0.295	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0596	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.483		0.0339	0.113		2
06148	Vanadium	7440-62-2	80.6		0.0248	0.113		2
06149	Zinc	7440-66-6	122		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1

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Sample Description: **SL-297-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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29745 SDG#: DE041-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	398	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.60	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-297-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 23:31	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 15:20	Jason M Long	20.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 19:02	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023334	12/16/2010 19:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023334	12/16/2010 19:15	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023334	12/16/2010 18:59	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 21:36	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011 17:12	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011 21:44	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010 06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 17:18	Elizabeth J Marin	20.76

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-297-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29745 SDG#: DE041-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 18:58	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 17:19	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 02:19	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/30/2010 01:22	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 07:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 17:51	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 14:30	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103510008A	12/18/2010 00:54	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 20:20	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 06:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103510008A	12/17/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 13:27	Eric L Eby	2
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 13:01	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:33	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-297-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166205
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29745 SDG#: DE041-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203B	01/09/2011 01:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007203B	01/09/2011 01:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 13:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 16:07	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007203B	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103B	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403A	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-297-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	53		8.2	9.8		1.02
06192	Benzene	71-43-2	0.12	U	0.12	4.9		1.02
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.9		1.02
06192	Bromochloromethane	74-97-5	0.40	U	0.40	4.9		1.02
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.9		1.02
06192	Bromoform	75-25-2	0.49	U	0.49	4.9		1.02
06192	Bromomethane	74-83-9	0.31	U	0.31	4.9		1.02
06192	2-Butanone	78-93-3	6.1	J	1.5	9.8		1.02
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	4.9		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.9		1.02
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	4.9		1.02
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.9		1.02
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.9		1.02
06192	Chloroethane	75-00-3	0.16	U	0.16	4.9		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	4.9		1.02
06192	Chloroform	67-66-3	0.15	U	0.15	4.9		1.02
06192	Chloromethane	74-87-3	0.40	U	0.40	4.9		1.02
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.9		1.02
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.9		1.02
06192	Chlorotrifluoroethene	79-38-9	0.61	U	0.61	6.1		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.86	U	0.86	4.9		1.02
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.9		1.02
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	4.9		1.02
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.9		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.9		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	4.9		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	4.9		1.02
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	4.9		1.02
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.9		1.02
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.9		1.02
06192	1,1-Dichloroethene	75-35-4	0.48	U	0.48	4.9		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.9		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	4.9		1.02
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	4.9		1.02
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.9		1.02
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	4.9		1.02
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.9		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	4.9		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	4.9		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.9		1.02
06192	Freon 113	76-13-1	0.13	U	0.13	4.9		1.02
06192	Freon 133a	75-88-7	0.61	U	0.61	6.1		1.02
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.9		1.02
06192	2-Hexanone	591-78-6	2.0	U	2.0	9.8		1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.9		1.02
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.9		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	4.9		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.48	U	0.48	9.8		1.02
06192	Methylene Chloride	75-09-2	1.3	J	0.29	4.9		1.02
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	4.9		1.02

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-297-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.9		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.9		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.9		1.02
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.9		1.02
06192	Toluene	108-88-3	0.1	U	0.1	4.9		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.9		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.9		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.9		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.9		1.02
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.9		1.02
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.9		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.40	U	0.40	4.9		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.49	U	0.49	4.9		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.9		1.02
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.9		1.02
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	4.9		1.02
06192	o-Xylene	95-47-6	0.21	U	0.21	4.9		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.3	U	6.3	19		26.15
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	114		40.0	79.9		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-297-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.89	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	130		7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1

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Sample Description: SL-297-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	1.5	J	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.85	J	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		25.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90	U	90	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	75	U	75	180	10000000	1
10132	Tetryl	479-45-8	92	U	92	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1

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Sample Description: **SL-297-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.3	U	5.3	11		1
10401	2,4-DB	94-82-6	2.2		0.74	2.0		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4		1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0		1
10401	MCPA	94-74-6	91	U	91	300		1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300		1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20		1
10401	2,4,5-TP	93-72-1	0.090	U	0.090	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	9,500		720	1,800		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20		1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20		1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20		1
01363	Chlordane	57-74-9	0.96	U	0.96	4.1		1
01363	p,p-DDD	72-54-8	0.079	U	0.079	0.41		1
01363	p,p-DDE	72-55-9	0.16	J	0.079	0.41		1
01363	p,p-DDT	50-29-3	0.079	U	0.079	0.41		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.41		1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20		1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.41		1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41		1
01363	Endrin	72-20-8	0.079	U	0.079	0.41		1
01363	Endrin Aldehyde	7421-93-4	0.079	U	0.079	0.41		1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.41		1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20		1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0		1
01363	Mirex	2385-85-5	0.079	U	0.079	0.41		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9		1

The surrogate TCX recovery in the LCS is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1

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Sample Description: SL-297-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	3.2		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	7.9		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.								
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	510	J	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,100		5.91	23.5		1
07914	Boron	7440-42-8	9.71		1.05	5.88		1
01650	Calcium	7440-70-2	15,500		7.21	23.5		1
01654	Iron	7439-89-6	35,800		11.1	47.0		2
01656	Lithium	7439-93-2	24.8		0.26	2.4		1

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Sample Description: **SL-297-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	8,220		2.99	11.8		1
06958	Manganese	7439-96-5	310		0.0917	0.588		1
10145	Phosphorus	7723-14-0	521		0.658	11.8		1
01662	Potassium	7440-09-7	6,040		21.2	58.8		1
01667	Sodium	7440-23-5	181		43.8	118		1
07968	Strontium	7440-24-6	40.9		0.0729	0.588		1
06969	Tin	7440-31-5	2.75	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,570		0.447	1.18		1
10146	Zirconium	7440-67-7	5.58	J	0.987	5.88		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.196	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.95		0.0692	0.461		2
06126	Barium	7440-39-3	171		0.125	0.461		2
06127	Beryllium	7440-41-7	0.937		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.166		0.0415	0.115		2
06131	Chromium	7440-47-3	27.9		0.138	0.461		2
06132	Cobalt	7440-48-4	8.13		0.0231	0.115		2
06133	Copper	7440-50-8	10.6		0.0761	0.461		2
06135	Lead	7439-92-1	9.67		0.0120	0.231		2
06138	Molybdenum	7439-98-7	1.04		0.0576	0.115		2
06139	Nickel	7440-02-0	17.0		0.115	0.461		2
06141	Selenium	7782-49-2	0.147	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0760	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.365		0.0346	0.115		2
06148	Vanadium	7440-62-2	54.7		0.0254	0.115		2
06149	Zinc	7440-66-6	79.1		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1

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Sample Description: **SL-297-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

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29778 SDG#: DE041-15*

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	238	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.98	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	16.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-297-SA5C-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010	23:53	Laura M Krieger	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	15:40	Jason M Long	26.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010	19:08	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023334	12/16/2010	19:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023334	12/16/2010	19:15	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023334	12/16/2010	19:06	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/14/2011	14:05	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLA026	01/17/2011	17:47	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLD026	01/06/2011	22:15	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010	08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLD026	12/22/2010	06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLA026	12/22/2010	06:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010	19:44	Elizabeth J Marin	25.56

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-297-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023334	12/16/2010 19:05	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 18:01	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 02:28	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103610014A	01/01/2011 03:00	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 08:11	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560033A	12/30/2010 18:10	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560033A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103610014A	12/28/2010 01:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 14:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103510008A	12/18/2010 01:08	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 17:24	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 07:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103510008A	12/17/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103545708004	12/31/2010 13:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708004	12/31/2010 13:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708004	12/31/2010 13:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708004	12/31/2010 13:34	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	103545708004	12/29/2010 17:57	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708004	12/31/2010 13:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708004	12/26/2010 13:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708004	12/26/2010 13:05	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708004	12/31/2010 13:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708004	12/26/2010 13:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708004	12/26/2010 13:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708004	12/26/2010 13:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708004	12/31/2010 13:31	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708004	12/26/2010 13:05	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026003D	12/31/2010 09:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2

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Sample Description: **SL-297-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-7.0-8.0

LLI Sample # SW 6166206
LLI Group # 1225779
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 01/25/2011 16:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

29778 SDG#: DE041-15*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026003C	12/31/2010 09:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026003B	12/31/2010 09:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026003A	12/31/2010 09:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711002	12/23/2010 20:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708004	12/20/2010 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026003	12/20/2010 21:07	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711002	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007203B	01/09/2011 02:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007203B	01/09/2011 02:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005202B	01/07/2011 19:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11011243201A	01/17/2011 16:23	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007203B	01/07/2011 19:00	Carolyn M Mastropietro	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005202B	01/05/2011 21:30	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10351182103B	12/17/2010 14:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10351039403B	12/17/2010 14:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11011243201A	01/11/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103501AA	Sample number(s): 6166198-6166199,6166203-6166206									
Acetone	6.7	U	6.7	8.0	ug/kg	189	181	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93	92	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	101	101	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	76	77	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	144	139	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100	99	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	99	99	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	94	95	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	102	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98	98	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	80	82	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	106	103	43-146	3	30
Chloroform	0.37	J	0.12	4.0	ug/kg	104	103	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	89	90	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	96	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	95	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	84	85	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	97	94	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	97	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	95	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	93	93	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	93	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	76	75	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103	102	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	100	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103	102	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	101	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104	103	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	100	99	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	101	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	104	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	94	96	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	95	94	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	100	61-126	1	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	85	85	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90	91	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	95	93	45-155	3	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	100	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	101	100	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	84	82	61-134	3	30
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	99	100	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101	101	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	97	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	98	97	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	97	95	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	98	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	101	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	92	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90	91	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103	101	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	99	96	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	100	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	86	85	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	99	95	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	98	99	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	98	98	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88	88	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101	100	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	96	80-120	2	30
Batch number: E103502AA	Sample number(s): 6166200,6166202									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	98		60-132		
Batch number: E103511AA	Sample number(s): 6166198-6166199,6166203-6166206									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	102	101	70-130	1	30
Batch number: Y103512AA	Sample number(s): 6166200,6166202									
Acetone	6	U	6.	20	ug/l	186	190	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	96	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	103	103	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	94	92	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	91	91	80-120	0	30
Bromoform	1	U	1.	5	ug/l	93	92	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	87	79	44-120	10	30
2-Butanone	3	U	3.	10	ug/l	125	130	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	100	100	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	107	106	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	96	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	82	75	49-129	9	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	102	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	98	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	83	81	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	103	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	73	76	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	105	108	66-120	3	30
Dibromochloromethane	1	U	1.	5	ug/l	94	94	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	72	47-120	6	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	1	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	96	95	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	100	103	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	93	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	90	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	95	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	87	87	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	112	115	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	98	99	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	116	120	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	102	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	95	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	97	97	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	98	100	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	110	108	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	97	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	107	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	98	97	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	94	92	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	105	104	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Batch number: 10350WAH026	Sample number(s): 6166201-6166202									
Acenaphthene	0.010	U	0.010	0.050	ug/l	75	78	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	80	82	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	77	78	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	78	79	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	73	79	64-115	8	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	79	75	69-123	5	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	73	69	68-125	5	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	75	71*	72-122	5	30
Butylbenzylphthalate	0.055	J	0.050	1.0	ug/l	71	73	70-130	2	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	80	80	70-130	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	75*	77	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	75	69*	71-125	8	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	67*	65*	70-130	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	67*	71	70-130	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	86	87	70-130	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	78	67*	75-116	16	30
Fluorene	0.010	U	0.010	0.050	ug/l	79	78	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	74	69	69-124	7	30

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	77	69*	71-117	11	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	71*	66*	75-115	7	30
Naphthalene	0.010	U	0.010	0.050	ug/l	74	75	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	59*	58*	70-130	1	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	74	71	70-130	5	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	77	78	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	72	72	69-118	1	30
Batch number: 10354WAM026	Sample number(s): 6166201-6166202									
Aniline	1	U	1.	5	ug/l	61	90	49-101	39*	30
Benzidine	20	U	20.	60	ug/l	52	80	20-109	44*	30
Benzoic acid	6	U	6.	15	ug/l	16	32	10-69	67*	30
Benzyl alcohol	5	U	5.	15	ug/l	81	95	66-97	16	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	93	99	82-117	5	30
Carbazole	1	U	1.	5	ug/l	96	102	81-114	7	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	91	100	70-123	9	30
4-Chloroaniline	1	U	1.	5	ug/l	55	83	42-124	40*	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	90	97	74-124	8	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	89	96	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	90	96	62-127	6	30
2-Chloronaphthalene	2	U	2.	5	ug/l	74	78	54-132	6	30
2-Chlorophenol	1	U	1.	5	ug/l	89	101	77-108	12	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	96	82-111	6	30
Dibenzofuran	1	U	1.	5	ug/l	93	99	83-108	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	68	72	67-108	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	62*	67	63-110	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	64*	68	65-113	5	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	63	82	49-111	26	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	91	99	80-109	9	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	89	97	72-110	8	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	94	104	70-130	10	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	83	92	78-119	11	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	72	89	64-120	21	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	93	99	81-115	7	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	95	102	85-115	7	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	103	78-116	6	30
Hexachlorobenzene	1	U	1.	5	ug/l	93	98	81-118	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	58	61	57-124	6	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	30	45	10-118	40*	30
Hexachloroethane	1	U	1.	5	ug/l	53	58	52-113	9	30
Isophorone	1	U	1.	5	ug/l	92	98	74-117	7	30
2-Methylphenol	1	U	1.	5	ug/l	85	94	64-101	10	30
4-Methylphenol	2	U	2.	5	ug/l	76	91	61-103	18	30
2-Nitroaniline	1	U	1.	5	ug/l	94	103	83-116	9	30
3-Nitroaniline	1	U	1.	5	ug/l	92	104	74-113	12	30
4-Nitroaniline	1	U	1.	5	ug/l	78	87	59-100	11	30
Nitrobenzene	1	U	1.	5	ug/l	91	96	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	87	98	86-120	12	30
4-Nitrophenol	10	U	10.	30	ug/l	41	48	16-78	15	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	90	97	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	92	98	67-136	7	30
Pentachlorophenol	3	U	3.	15	ug/l	90	97	53-110	7	30
Phenol	1	U	1.	5	ug/l	43	52	29-67	19	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	71	73	71-112	3	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	102	79-107	13	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	91	98	81-113	8	30
Batch number: 10355SLA026	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166206									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	17	U	17.	170	ug/kg	92		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	96		75-122		
Aniline	170	U	170.	500	ug/kg	51		10-107		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200	U	1,200.	3,300	ug/kg	48		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	95		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	82		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	80		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	83		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	83		67-125		
Benzoic acid	170	U	170.	500	ug/kg	90		10-154		
Benzyl alcohol	170	U	170.	500	ug/kg	82		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	89		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	43		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	82		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	17	U	17.	170	ug/kg	93		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	83		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	92		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	52		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	94		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	85		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	81		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	100		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	83		64-119		
Isophorone	17	U	17.	170	ug/kg	88		69-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	17	U	17.	170	ug/kg	90		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	83		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	83		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	82		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	90		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	80		35-106		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 10355SLD026	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166206									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	91		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	86		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	93		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	89		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	92		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	88		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	105		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	89		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	88		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	71		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	71		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	69		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	82		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	91		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		56-121		
Batch number: 10361SLB026	Sample number(s): 6166198-6166199,6166203-6166206									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	100		70-130		
Batch number: 10349A34B	Sample number(s): 6166198-6166199,6166203-6166206									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	79	78	67-119	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10354A53A	Sample number(s): 6166200,6166202								
TPH-GRO S.CA water C5-C12	20 U	20.	50	ug/l	85	85	75-135	1	30
Batch number: 103550019A	Sample number(s): 6166198-6166199,6166203-6166206								
4-Amino-2,6-Dinitrotoluene	75 U	75.	150	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	50 U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U	100.	300	ug/kg	90	89	54-134	2	30
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	90	88	54-134	2	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	108		80-120		
HMX	130 U	130.	380	ug/kg	83		74-130		
Nitrobenzene	50 U	50.	150	ug/kg	102		80-120		
Nitroglycerin	1,000 U	1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100 U	100.	150	ug/kg	108		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	109		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	107		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	106		80-120		
RDX	63 U	63.	150	ug/kg	106		75-131		
Tetryl	77 U	77.	150	ug/kg	135		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	121		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	109		80-120		
Batch number: 103510021A	Sample number(s): 6166198-6166199,6166203-6166206								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	100		80-126		
Batch number: 103500036A	Sample number(s): 6166201-6166202								
2,4-D	0.16 U	0.16	0.50	ug/l	116	128	45-128	10	30
Dalapon	0.25 U	0.25	1.3	ug/l	81	89	40-100	9	30
2,4-DB	0.30 U	0.30	1.0	ug/l	100	112	41-138	11	30
Dicamba	0.080 U	0.080	0.30	ug/l	124	132	51-144	6	30
Dinoseb	0.10 U	0.10	0.50	ug/l	63	72	23-93	14	30
2,4-DP (Dichlorprop)	0.16 U	0.16	0.50	ug/l	120	136	72-145	13	30
MCPA	300 U	300.	1,000	ug/l	100	112	69-129	11	30
MCPP	50 U	50.	200	ug/l	112	124	66-132	10	30
2,4,5-T	0.015 U	0.015	0.050	ug/l	108	120	53-141	11	30
2,4,5-TP	0.010 U	0.010	0.050	ug/l	112	116	56-135	4	30
Batch number: 103570025A	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166205								
2,4-D	1.2 U	1.2	3.6	ug/kg	144*		40-140		
Dalapon	4.4 U	4.4	9.0	ug/kg	78		24-89		
2,4-DB	0.62 U	0.62	1.7	ug/kg	97		34-138		
Dicamba	0.40 U	0.40	1.2	ug/kg	98		20-164		
Dinoseb	0.80 U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80 U	0.80	1.7	ug/kg	119		60-141		
MCPA	76 U	76.	250	ug/kg	90		34-113		
MCPP (Mecoprop)	75 U	75.	250	ug/kg	107		29-154		
2,4,5-T	0.082 U	0.082	0.17	ug/kg	96		33-145		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	98		48-138		
Batch number: 103610014A	Sample number(s): 6166206									
2,4-D	1.2	U	1.2	3.6	ug/kg	105		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	46		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	109		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	94		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	157*		60-141		
MCPA	76	U	76.	250	ug/kg	91		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	88		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	110		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	92		48-138		
Batch number: 103500020A	Sample number(s): 6166204									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 103550006A	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166206									
Aldrin	0.066	U	0.066	0.17	ug/kg	61		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	58		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	78		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	76		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	92		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	84		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	99		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	94		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	110		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	108		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	123		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	58		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	106		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	85		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	84		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	131*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103550011A	Sample number(s): 6166201-6166202									
Aldrin	0.0020	U	0.0020	0.010	ug/l	101	101	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	122	122	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	98	103	73-147	5	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	89	96	68-128	8	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	90	105	71-139	15	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	105	116	66-130	10	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	100	85	53-126	16	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	97	103	76-148	6	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	105	76-132	5	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	79	89	68-128	12	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	85	95	59-144	11	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	85	105	71-142	21	30
Endrin	0.0081	U	0.0081	0.020	ug/l	75	90	52-132	18	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	95	105	68-139	10	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	95	105	69-146	10	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	92	97	57-126	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	95	102	73-156	7	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	75	91	52-133	19	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103550012A	Sample number(s): 6166201-6166202									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	44*	44*	75-125	0	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	96	68-119	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	92	96	68-121	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103560033A	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166206									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	62*	73*	75-125	17	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	126		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103570006A	Sample number(s): 6166198-6166199,6166203-6166206									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	75		66-113		
Batch number: 103510008A	Sample number(s): 6166198-6166199,6166203-6166206									
Ethanol	100 U		100.	500	ug/kg	91		75-112		
Isopropanol	100 U		100.	500	ug/kg	87		75-125		
Methanol	100 U		100.	500	ug/kg	96		75-134		
Batch number: 103510010A	Sample number(s): 6166198-6166199,6166203-6166206									
Diethylene glycol	5.0	U	5.0	13	mg/kg	79		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	79		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	72*		75-125		
Batch number: 103550027A	Sample number(s): 6166198-6166199,6166203-6166206									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100	102	75-125	2	20
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104	106	75-125	2	20
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	99	101	75-125	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103541026003A	Sample number(s): 6166189-6166199,6166203-6166206								
Antimony	0.0600 U	0.0600	0.200	mg/kg	99		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	99		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	102		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	99		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	100		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	103		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	105		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	100		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	101		78-122		
Batch number: 103541026003B	Sample number(s): 6166189-6166199,6166203-6166206								
Selenium	0.0400 U	0.0400	0.400	mg/kg	101		79-122		
Batch number: 103541026003C	Sample number(s): 6166189-6166199,6166203-6166206								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	104		78-122		
Batch number: 103541026003D	Sample number(s): 6166189-6166199,6166203-6166206								
Barium	0.108 U	0.108	0.400	mg/kg	98		79-121		
Batch number: 103545708004	Sample number(s): 6166189-6166199,6166203-6166206								
Aluminum	5.13 J	5.03	20.0	mg/kg	99		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	107		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	101		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	101		82-110		
Manganese	0.111 J	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.76 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	102		78-110		
Sodium	37.3 U	37.3	100	mg/kg	104		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	105		79-121		
Tin	1.29 J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	108		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 103545713001	Sample number(s): 6166201-6166202								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	97		80-120		
Batch number: 103551848003	Sample number(s): 6166201-6166202								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	92	90-112	4	20
Boron	0.0138 U	0.0138	0.0500	mg/l	97	94	90-110	3	20
Calcium	0.0960 J	0.0702	0.200	mg/l	102	99	90-112	3	20
Iron	0.0522 U	0.0522	0.200	mg/l	102	98	90-112	4	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	98	80-120	2	20
Magnesium	0.0421 J	0.0172	0.100	mg/l	101	98	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	101	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	100	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	97	90-110	3	20
Tin	0.0098 U	0.0098	0.0200	mg/l	103	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	102	90-113	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	99	80-120	3	20
Batch number: 103556050002A	Sample number(s): 6166201-6166202								
Antimony	0.00030 U	0.00030	0.0010	mg/l	105	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	106	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	108	103	90-112	5	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	102	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	104	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	104	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	109	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	107	108	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	101	89-116	0	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	80-120	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	109	105	80-120	4	20
Batch number: 103556050002B	Sample number(s): 6166201-6166202								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	107	85-114	0	20
Batch number: 103556050002C	Sample number(s): 6166201-6166202								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	103	80-120	2	20
Batch number: 103556050002D	Sample number(s): 6166201-6166202								
Barium	0.00038 U	0.00038	0.0020	mg/l	107	106	88-113	1	20
Batch number: 103575711002	Sample number(s): 6166189-6166199,6166203-6166206								
Mercury	0.0028 U	0.0028	0.0965	mg/kg	93		88-123		
Batch number: 10350113301A	Sample number(s): 6166201-6166202								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	97	97	90-110	0	20
Batch number: 10352658701A	Sample number(s): 6166201-6166202								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	91	85-115	1	20
Batch number: 10355196901A	Sample number(s): 6166201-6166202								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	94	94	90-110	0	20
Batch number: 10361102202B	Sample number(s): 6166198-6166199,6166203-6166206								
21a Cyanide by 9012B	0.13 U	0.13	0.50	mg/kg	105		80-120		
Batch number: 11005005202A	Sample number(s): 6166189-6166191,6166193-6166199,6166203-6166204								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	92		85-115		
Batch number: 11005005202B	Sample number(s): 6166206								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	92		85-115		
Batch number: 11007007203A	Sample number(s): 6166189-6166191,6166193-6166199,6166203-6166204								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11007007203B	Sample number(s): 6166205-6166206								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11011011202A	Sample number(s): 6166205								

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11011243201A	Sample number(s): 6166189-6166191,6166193-6166199,6166203-6166206									
3a Cr VI by EPA 7199	0.22	J	0.20	1.0	mg/kg	92		80-120		
Batch number: 10351020001A	Sample number(s): 6166201									
22b pH by 9040B						100		99-101		
Batch number: 10351020001B	Sample number(s): 6166202									
22b pH by 9040B						100		99-101		
Batch number: 10351039402B	Sample number(s): 6166189-6166190,6166193									
22a pH by 9045C						100		95-105		
Batch number: 10351039403A	Sample number(s): 6166194-6166199,6166203-6166205									
22a pH by 9045C						100		95-105		
Batch number: 10351039403B	Sample number(s): 6166206									
22a pH by 9045C						100		95-105		
Batch number: 10351182102B	Sample number(s): 6166189-6166190,6166193									
Oxidation Reduction Potential						100		98-102		
Batch number: 10351182103A	Sample number(s): 6166194-6166199,6166203-6166204									
Oxidation Reduction Potential						100		98-102		
Batch number: 10351182103B	Sample number(s): 6166205-6166206									
Oxidation Reduction Potential						100		98-102		
Batch number: 10356162401B	Sample number(s): 6166189-6166199,6166203-6166206									
28a Moisture Content by 160.3						99		80-120		
28a Moisture Content by 160.3						99		80-120		
28a Moisture Content by 160.3						99		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103501AA	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P164946								
Acetone	176		15-210						
Benzene	108		55-143						
Bromobenzene	92		43-139						
Bromochloromethane	98		60-137						
Bromodichloromethane	99		53-136						
Bromoform	87		38-124						
Bromomethane	80		42-168						
2-Butanone	125		37-163						
n-Butylbenzene	100		30-146						
sec-Butylbenzene	100		33-157						
tert-Butylbenzene	94		41-152						
Carbon Tetrachloride	108		45-153						

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Quality Control Summary

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Reported: 01/25/11 at 04:57 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chlorobenzene	99		49-135						
Chloroethane	86		39-152						
2-Chloroethyl Vinyl Ether	90		32-139						
Chloroform	106		61-142						
Chloromethane	101		51-163						
2-Chlorotoluene	97		42-146						
4-Chlorotoluene	97		39-145						
1,2-Dibromo-3-chloropropane	78		30-139						
Dibromochloromethane	94		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	97		57-130						
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	92		34-134						
1,4-Dichlorobenzene	93		35-136						
Dichlorodifluoromethane	83		26-151						
1,1-Dichloroethane	108		63-142						
1,2-Dichloroethane	103		68-131						
1,1-Dichloroethene	114		61-149						
cis-1,2-Dichloroethene	105		60-136						
trans-1,2-Dichloroethene	109		59-142						
1,2-Dichloropropane	104		62-135						
1,3-Dichloropropane	97		58-129						
2,2-Dichloropropane	101		53-147						
1,1-Dichloropropene	108		54-145						
cis-1,3-Dichloropropene	91		51-131						
trans-1,3-Dichloropropene	88		49-129						
Ethylbenzene	101		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	88		10-155						
2-Hexanone	78		32-160						
Isopropylbenzene	100		38-144						
p-Isopropyltoluene	99		29-152						
Methyl Tertiary Butyl Ether	93		55-129						
4-Methyl-2-pentanone	68		46-139						
Methylene Chloride	101		61-141						
n-Propylbenzene	104		39-157						
Styrene	99		35-134						
1,1,1,2-Tetrachloroethane	99		52-130						
1,1,2,2-Tetrachloroethane	87		40-152						
Tetrachloroethene	101		42-149						
Toluene	104		50-146						
1,2,3-Trichlorobenzene	80		10-140						
1,2,4-Trichlorobenzene	81		10-136						
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	95		54-139						
Trichloroethene	103		53-144						
Trichlorofluoromethane	94		47-163						
1,2,3-Trichloropropane	85		45-154						
1,2,4-Trimethylbenzene	98		37-149						
1,3,5-Trimethylbenzene	99		38-150						
Vinyl Chloride	91		50-154						
m+p-Xylene	102		44-137						
o-Xylene	96		42-137						

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E103502AA	Sample number(s): 6166200,6166202 UNSPK: P165404								
1,4-Dioxane	110	102	50-150	7	30				
Batch number: 10355SLA026	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166206 UNSPK: 6166190								
Acenaphthene	80	92	75-115	14	30				
Acenaphthylene	82	96	49-126	16	30				
Aniline	30	44	14-114	37*	30				
Anthracene	79	96	75-115	18	30				
Benzidine	0*	15*	35-141	200*	30				
Benzo(a)anthracene	79	96	65-122	20	30				
Benzo(a)pyrene	69	85	57-126	21	30				
Benzo(b)fluoranthene	67	84	59-125	23	30				
Benzo(g,h,i)perylene	67	83	59-127	22	30				
Benzo(k)fluoranthene	67	83	56-132	22	30				
Benzoic acid	39	60	10-173	42*	30				
Benzyl alcohol	72	85	55-123	16	30				
4-Bromophenyl-phenylether	76	89	67-129	15	30				
Butylbenzylphthalate	82	101	73-134	21	30				
Di-n-butylphthalate	80	96	67-123	19	30				
Carbazole	80	97	64-120	20	30				
4-Chloro-3-methylphenol	77	94	53-130	20	30				
4-Chloroaniline	32	44	23-95	32*	30				
bis(2-Chloroethoxy)methane	81	95	54-117	16	30				
bis(2-Chloroethyl)ether	72	83	60-116	14	30				
bis(2-Chloroisopropyl)ether	71	83	55-142	16	30				
2-Chloronaphthalene	65	78	50-141	18	30				
2-Chlorophenol	77	91	73-121	16	30				
4-Chlorophenyl-phenylether	78	93	64-119	18	30				
Chrysene	78	95	62-128	20	30				
Dibenz(a,h)anthracene	68	86	65-125	23	30				
Dibenzofuran	78	93	71-112	17	30				
1,2-Dichlorobenzene	75	88	66-108	16	30				
1,3-Dichlorobenzene	73	89	63-109	20	30				
1,4-Dichlorobenzene	74	90	53-113	19	30				
3,3'-Dichlorobenzidine	46	57	25-123	22	30				
2,4-Dichlorophenol	81	96	78-117	17	30				
Diethylphthalate	79	94	66-118	17	30				
2,4-Dimethylphenol	80	95	56-130	17	30				
3,5-Dimethylphenol	89	107	70-130	19	30				
Dimethylphthalate	77	92	64-118	17	30				
4,6-Dinitro-2-methylphenol	62	76	10-148	20	30				
2,4-Dinitrophenol	38	55	20-143	37*	30				
2,4-Dinitrotoluene	83	97	57-114	16	30				
2,6-Dinitrotoluene	80	96	69-123	18	30				
1,2-Diphenylhydrazine	83	100	71-129	18	30				
bis(2-Ethylhexyl)phthalate	85	110	63-122	26	30				
Fluoranthene	81	98	59-122	19	30				
Fluorene	80	94	60-125	16	30				
Hexachlorobenzene	78	95	61-111	20	30				
Hexachlorobutadiene	82	94	62-120	14	30				
Hexachlorocyclopentadiene	78	88	10-153	12	30				
Hexachloroethane	76	92	57-109	18	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	67	85	61-126	23	30				
Isophorone	77	92	51-118	18	30				
1-Methylnaphthalene	77	93	73-112	18	30				
2-Methylnaphthalene	72*	88	76-114	19	30				
2-Methylphenol	76	89	47-142	16	30				
4-Methylphenol	74	87	55-126	16	30				
Naphthalene	73	88	72-116	18	30				
2-Nitroaniline	85	103	67-125	18	30				
3-Nitroaniline	74	93	59-122	22	30				
4-Nitroaniline	56	72	52-112	25	30				
Nitrobenzene	83	100	51-114	18	30				
2-Nitrophenol	79	96	74-115	20	30				
4-Nitrophenol	81	101	39-133	22	30				
N-Nitroso-di-n-propylamine	71	86	60-116	19	30				
N-Nitrosodimethylamine	73	88	47-116	19	30				
N-Nitrosodiphenylamine	77*	94	86-145	20	30				
Di-n-octylphthalate	74	93	56-126	22	30				
Pentachlorophenol	66	85	17-149	25	30				
Phenanthrene	78	94	65-125	19	30				
Phenol	77	90	58-126	16	30				
Pyrene	79	96	51-151	21	30				
1,2,4-Trichlorobenzene	78	94	72-115	18	30				
2,4,5-Trichlorophenol	80	97	34-139	19	30				
2,4,6-Trichlorophenol	83	98	49-140	17	30				
Batch number: 10355SLD026	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166206 UNSPK: 6166190								
Acenaphthene	87	92	63-105	5	30				
Acenaphthylene	94	98	55-126	5	30				
Anthracene	90	97	46-136	7	30				
Benzo(a)anthracene	87	96	39-144	8	30				
Benzo(a)pyrene	75	82	34-156	7	30				
Benzo(b)fluoranthene	67	76	43-155	10	30				
Benzo(g,h,i)perylene	71	76	33-141	6	30				
Benzo(k)fluoranthene	77	82	42-144	5	30				
Butylbenzylphthalate	120	125	73-140	4	30				
Di-n-butylphthalate	111	114	78-160	3	30				
Chrysene	72	81	29-156	9	30				
Dibenz(a,h)anthracene	74	72	41-130	3	30				
Diethylphthalate	112	109	87-131	3	30				
Dimethylphthalate	100	103	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	96	122	39-167	18	30				
Fluoranthene	81	90	26-166	9	30				
Fluorene	92	98	45-121	6	30				
Indeno(1,2,3-cd)pyrene	73	76	21-143	4	30				
1-Methylnaphthalene	84	86	72-123	2	30				
2-Methylnaphthalene	73	76	28-121	4	30				
Naphthalene	77	80	61-102	3	30				
N-Nitrosodimethylamine	87	90	48-113	4	30				
Di-n-octylphthalate	106	112	40-192	6	30				
Phenanthrene	77	86	12-165	10	30				
Pyrene	89	91	15-153	2	30				
Batch number: 10361SLB026	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P164941								

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	94	88	70-130	5	30				
Batch number: 10349A34B	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P163871								
9a TPH by EPA 8015B Gas C5-C12	65	66	39-118	0	30				
Batch number: 103550019A	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P163871								
4-Amino-2,6-Dinitrotoluene	106	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	105	80-137	0	50				
1,3-Dinitrobenzene	103	103	38-166	1	50				
2,4-Dinitrotoluene	100	101	80-131	0	50				
2,6-Dinitrotoluene	107	107	80-127	0	50				
HMX	81	83	63-128	2	50				
Nitrobenzene	100	100	80-125	0	50				
Nitroglycerin	94	93	80-120	0	50				
2-Nitrotoluene	106	105	80-122	1	50				
3-Nitrotoluene	107	106	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	108	107	80-121	0	50				
RDX	97	99	75-129	2	50				
Tetryl	131	135	55-174	3	50				
1,3,5-Trinitrobenzene	118	119	82-126	0	50				
2,4,6-Trinitrotoluene	106	107	82-130	1	50				
Batch number: 103510021A	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P163871								
17a Formaldehyde by 8315A	97	99	80-120	2	50				
Batch number: 103570025A	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166205 UNSPK: 6166190								
2,4-D	104	75	28-161	32	35				
Dalapon	87*	82	12-86	6	50				
2,4-DB	184*	119	20-170	43	50				
Dicamba	178*	129*	33-120	32	50				
Dinoseb	15	11	1-44	27	35				
2,4-DP (Dichlorprop)	75	107	55-141	35	50				
MCPA	298*	96	31-184	103*	50				
MCPP (Mecoprop)	126	102	16-174	21	50				
2,4,5-T	71	61	25-132	15	35				
2,4,5-TP	116	83	10-183	33	35				
Batch number: 103610014A	Sample number(s): 6166206 UNSPK: P166074								
2,4-D	82	88	28-161	7	35				
Dalapon	46	48	12-86	4	50				
2,4-DB	14*	22	20-170	8	50				
Dicamba	99	106	33-120	7	50				
Dinoseb	16	13	1-44	17	35				
2,4-DP (Dichlorprop)	82	121	55-141	38	50				
MCPA	114	92	31-184	18	50				
MCPP (Mecoprop)	52	43	16-174	19	50				
2,4,5-T	73	78	25-132	5	35				
2,4,5-TP	39	39	10-183	0	35				
Batch number: 103500020A	Sample number(s): 6166204 UNSPK: P164948								
6a Perchlorate EPA 6850	100	100	80-120	0	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103550006A	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166206 UNSPK: 6166190								
Aldrin	71	77	16-126	9	50				
Alpha BHC	88	94	10-129	7	50				
Beta BHC	84	100	14-147	17	50				
Gamma BHC - Lindane	94	100	10-140	6	50				
p,p-DDD	76	68	16-163	12	50				
p,p-DDE	106	111	18-161	4	50				
p,p-DDT	101	104	10-176	3	50				
Delta BHC	88	94	23-140	7	50				
Dieldrin	73	78	19-154	8	50				
Endosulfan I	76	79	16-137	4	50				
Endosulfan II	76	81	28-154	6	50				
Endosulfan Sulfate	133	86	21-160	43	50				
Endrin	95	86	11-149	10	50				
Endrin Aldehyde	47	73	10-148	43*	35				
Endrin Ketone	102	92	22-165	10	50				
Heptachlor	106	112	13-126	6	50				
Heptachlor Epoxide	77	81	13-157	4	50				
Methoxychlor	96	108	32-147	12	50				
Batch number: 103560033A	Sample number(s): 6166189-6166192,6166194-6166199,6166203-6166206 UNSPK: 6166190								
PCB-1016	122	117	29-146	4	50				
PCB-1260	119	117	39-149	1	50				
Batch number: 103570006A	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P162942								
EFH (C12-C14)	88	86	49-123	3	20				
EFH (C15-C20)	172*	137*	49-123	23*	20				
EFH (C21-C30)	799*	504*	49-123	29*	20				
EFH (C30 - C40)	1486 (2)	1361 (2)	49-123	6	20				
EFH (C8-C11)	61	62	49-123	2	20				
Batch number: 103510008A	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P163880								
Ethanol	81	72	24-143	12	20				
Isopropanol	86	84	75-125	2	20				
Methanol	90	80	45-136	12	20				
Batch number: 103510010A	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P164941								
Diethylene glycol	60	85	59-109	36*	20				
Ethylene glycol	85	88	63-107	3	20				
Propylene glycol	72	73	63-107	1	20				
Batch number: 103541026003A	Sample number(s): 6166189-6166199,6166203-6166206 UNSPK: 6166190 BKG: 6166190								
Antimony	45*	55*	75-125	13	20	0.267	0.170 J	44* (1)	20
Arsenic	197*	205*	75-125	1	20	5.75	5.84	2	20
Beryllium	115	119	75-125	1	20	0.600	0.592	1	20
Cadmium	158*	155*	75-125	4	20	0.166	0.194	16 (1)	20
Chromium	163*	146*	75-125	5	20	23.1	22.3	3	20
Cobalt	111	115	75-125	1	20	6.21	6.00	3	20
Copper	123	120	75-125	2	20	10.5	11.0	4	20
Lead	189 (2)	193 (2)	75-125	0	20	12.9	11.8	9	20
Nickel	130*	138*	75-125	2	20	14.3	14.8	4	20
Silver	131*	131*	75-125	2	20	0.0920 J	0.103	12 (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	141*	142*	75-125	1	20	0.275	0.255	8 (1)	20
Vanadium	170 (2)	170 (2)	75-125	0	20	44.0	43.5	1	20
Zinc	321 (2)	250 (2)	75-125	7	20	77.7	76.4	2	20
Batch number: 103541026003B	Sample number(s): 6166189-6166199,6166203-6166206 UNSPK: 6166190 BKG: 6166190								
Selenium	135*	137*	75-125	0	20	0.179 J	0.182 J	1 (1)	20
Batch number: 103541026003C	Sample number(s): 6166189-6166199,6166203-6166206 UNSPK: 6166190 BKG: 6166190								
Molybdenum	139*	141*	75-125	1	20	0.760	0.665	13	20
Batch number: 103541026003D	Sample number(s): 6166189-6166199,6166203-6166206 UNSPK: 6166190 BKG: 6166190								
Barium	319 (2)	318 (2)	75-125	1	20	98.5	103	4	20
Batch number: 103545708004	Sample number(s): 6166189-6166199,6166203-6166206 UNSPK: 6166190 BKG: 6166190								
Aluminum	685 (2)	252 (2)	75-125	5	20	17,100	17,900	5	20
Boron	95	94	84-115	2	20	0.864 U	0.864 U	0 (1)	20
Calcium	90 (2)	-1 (2)	75-125	10	20	3,440	3,310	4	20
Iron	-1451 (2)	-448 (2)	75-125	4	20	23,300	24,500	5	20
Lithium	96	92	82-114	3	20	26.2	26.6	1	20
Magnesium	-400 (2)	-637 (2)	75-125	9	20	6,020	5,550	8	20
Manganese	4 (2)	-11 (2)	75-125	2	20	316	303	5	20
Phosphorus	25 (2)	-13 (2)	75-125	8	20	456	386	17	20
Potassium	96	69*	75-125	7	20	3,210	3,080	4	20
Sodium	100	97	75-125	3	20	113	122	7 (1)	20
Strontium	94	93	75-115	1	20	19.1	19.8	4	20
Tin	87	86	80-110	1	20	2.51 J	2.51 J	0 (1)	20
Titanium	109 (2)	30 (2)	75-125	5	20	1,500	1,370	9	20
Zirconium	96	92	75-125	4	20	3.39 J	4.53 J	29* (1)	20
Batch number: 103575711002	Sample number(s): 6166189-6166199,6166203-6166206 UNSPK: 6166190 BKG: 6166190								
Mercury	113	94	65-135	18	20	0.0042 J	0.0070 J	51* (1)	20
Batch number: 10361102202B	Sample number(s): 6166198-6166199,6166203-6166206 UNSPK: P164946 BKG: P164946								
21a Cyanide by 9012B	102		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11005005202A	Sample number(s): 6166189-6166191,6166193-6166199,6166203-6166204 UNSPK: 6166190 BKG: 6166190								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11005005202B	Sample number(s): 6166206 UNSPK: 6166206 BKG: 6166206								
7a Perchlorate EPA 314.0	91		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11007007203A	Sample number(s): 6166189-6166191,6166193-6166199,6166203-6166204 UNSPK: 6166190 BKG: 6166190								
11a Anions by 300.0 - Fluoride	70*		80-120			1.7	0.80 U	200* (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11007007203B	Sample number(s): 6166205-6166206 UNSPK: 6166205 BKG: 6166205								
11a Anions by 300.0 - Fluoride	60*		80-120			2.7	2.7	2 (1)	20
11a Anions by 300.0 - Nitrate	93		80-120			1.1 J	0.97 J	17 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11011011202A	Sample number(s): 6166205 UNSPK: P167517 BKG: P167517								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11011243201A	Sample number(s): 6166189-6166191,6166193-6166199,6166203-6166206 UNSPK: 6166190 BKG: 6166190								
3a Cr VI by EPA 7199	82		75-125			0.65 J	0.46 J	34* (1)	20
Batch number: 10351020001A	Sample number(s): 6166201 BKG: P165990								
22b pH by 9040B						6.8	6.8	0	1
Batch number: 10351020001B	Sample number(s): 6166202 BKG: P167276								
22b pH by 9040B						6.9	6.9	0	1
Batch number: 10351039402B	Sample number(s): 6166189-6166190,6166193 BKG: 6166190								
22a pH by 9045C						6.85	6.89	1	1
Batch number: 10351039403A	Sample number(s): 6166194-6166199,6166203-6166205 BKG: 6166194								
22a pH by 9045C						6.94	6.93	0	1
Batch number: 10351039403B	Sample number(s): 6166206 BKG: 6166206								
22a pH by 9045C						6.98	6.99	0	1
Batch number: 10351182102B	Sample number(s): 6166189-6166190,6166193 BKG: 6166193								
Oxidation Reduction Potential						403	414	3	6
Batch number: 10351182103A	Sample number(s): 6166194-6166199,6166203-6166204 BKG: 6166194								
Oxidation Reduction Potential						413	413	0	6
Batch number: 10351182103B	Sample number(s): 6166205-6166206 BKG: 6166206								
Oxidation Reduction Potential						238	235	1	6
Batch number: 10356162401B	Sample number(s): 6166189-6166199,6166203-6166206 BKG: 6166190								
28a Moisture Content by 160.3						5.2	4.8	7	20
28a Moisture Content by 160.3						5.2	4.8	7	20
28a Moisture Content by 160.3						5.2	4.8	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103501AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6166198	106	103	98	94
6166199	105	100	97	92
6166203	105	101	97	92
6166204	105	102	96	92
6166205	105	100	97	91

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Surrogate Quality Control

6166206	105	102	96	91
Blank	104	101	97	93
LCS	100	103	99	100
LCSD	99	102	100	100
MS	100	97	102	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103502AA

	Toluene-d8
6166200	100
6166202	101
Blank	99
LCS	100
MS	101
MSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103511AA

	Toluene-d8
6166198	99
6166199	99
6166203	100
6166204	99
6166205	98
6166206	99
Blank	100
LCS	99
LCSD	100
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6166200	101	98	102	99
6166202	99	98	101	97
Blank	100	98	101	99
LCS	100	101	104	103
LCSD	97	97	103	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10350WAH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6166201	111	73	74
6166202	99	73	77
Blank	78	71	76
LCS	80	72	71

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Surrogate Quality Control

LCSD	69	70	72
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10354WAM026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6166201	48	33	77	77	75	77
6166202	54	37	89	82	75	79
Blank	63	43	86	85	80	83
LCS	59	40	89	85	84	79
LCSD	71	49	99	92	91	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10355SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6166189	78	78	87	76	85	81
6166190	79	82	97	82	89	81
6166191	75	76	86	77	76	72
6166192	89	89	103	90	87	88
6166194	83	82	80	76	87	85
6166195	85	82	95	79	90	97
6166196	86	82	100	81	94	104
6166197	84	81	95	80	90	94
6166198	78	76	92	79	86	89
6166199	85	83	95	80	89	91
6166203	83	82	93	78	88	87
6166204	84	83	95	80	90	86
6166205	85	84	92	80	88	96
6166206	77	78	89	75	83	84
Blank	85	87	96	83	89	83
LCS	87	87	104	88	90	87
MS	75	76	86	77	76	72
MSD	89	89	103	90	87	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10355SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6166189	111	71	68
6166190	97	82	89
6166191	101	84	95
6166192	105	86	90
6166194	117	85	56
6166195	105	89	91
6166196	116	94	96
6166197	102	85	89
6166198	108	89	94
6166199	103	87	90
6166203	105	87	87
6166204	105	87	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Surrogate Quality Control

6166205	103	90	89
6166206	110	90	89
Blank	88	81	83
LCS	96	84	89
MS	101	84	95
MSD	105	86	90
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10361SLB026

	N-Nitrosodimethylamine-d6
6166198	118
6166199	129
6166203	135
6166204	129
6166205	119
6166206	97
Blank	106
LCS	108
MS	101
MSD	113
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10349A34B

	Trifluorotoluene-F
6166198	89
6166199	90
6166203	88
6166204	82
6166205	93
6166206	84
Blank	96
LCS	102
LCSD	99
MS	80
MSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10354A53A

	Trifluorotoluene-F
6166200	72
6166202	75
Blank	74
LCS	89
LCSD	86
Limits:	63-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Surrogate Quality Control

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103500036A

	2,4-Dichlorophenylacetic acid
6166201	85
6166202	93
Blank	90
LCS	107
LCSD	112
Limits:	35-144

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103510021A

	Butyraldehyde
6166198	109
6166199	107
6166203	117
6166204	114
6166205	100
6166206	112
Blank	100
LCS	105
MS	105
MSD	104
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 103550006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6166189	60	82
6166190	58	31
6166191	69	35
6166192	74	69
6166194	87	138*
6166195	59	49
6166196	61	45
6166197	71	56
6166198	82	77
6166199	72	83
6166203	0*	0*
6166204	90	77
6166205	70	74
6166206	69	76
Blank	65	112
LCS	32*	108
MS	68	36
MSD	74	69
Limits:	50-130	20-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 103550011A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6166201	90	89
6166202	94	90
Blank	90	92
LCS	96	89
LCSD	99	101
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103550012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6166201	95	85
6166202	88	88
Blank	117	85
LCS	110	75
LCSD	106	81
Limits:	30-150	45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103550019A

	2-Nitro-m-xylene
6166198	112
6166199	105
6166203	110
6166204	104
6166205	107
6166206	105
Blank	112
LCS	105
LCSD	102
MS	108
MSD	105
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103560033A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6166189	64	62
6166190	107	97
6166191	100	108
6166192	109	106
6166194	63	49
6166195	77	76
6166196	108	121*
6166197	90	100
6166198	89	99
6166199	107	98
6166203	87	102
6166204	86	94
6166205	89	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Surrogate Quality Control

6166206	90	105
Blank	85	97
LCS	103	117
LCSD	103	126*
MS	100	108
MSD	109	106
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103570025A

	2,4-Dichlorophenylacetic acid
6166189	108
6166190	103
6166191	130
6166192	127
6166194	96
6166195	111
6166196	111
6166197	85
6166198	98
6166199	78
6166203	117
6166204	97
6166205	78
Blank	85
LCS	97
MS	130
MSD	127
Limits:	36-156

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103610014A

	2,4-Dichlorophenylacetic acid
6166206	81
Blank	79
LCS	92
MS	104
MSD	97
Limits:	36-156

Analysis Name: 25a Alcohols by 8015B
Batch number: 103510008A

	Acetone
6166198	93
6166199	92
6166203	91
6166204	93
6166205	88
6166206	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225779
Reported: 01/25/11 at 04:57 PM

Surrogate Quality Control

Blank	97
LCS	91
MS	97
MSD	97
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103510010A

	Tetramethylene glycol
6166198	91
6166199	103
6166203	79
6166204	100
6166205	138*
6166206	78
Blank	95
LCS	92
MS	117
MSD	98
Limits:	50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550027A

	n-Triacontane-d62
6166198	88
6166199	91
6166203	87
6166204	97
6166205	92
6166206	92
Blank	99
LCS	96
LCSD	97
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103570006A

	Chlorobenzene	Orthoterphenyl
6166198	75	88
6166199	76	87
6166203	73	85
6166204	84	94
6166205	78	85
6166206	68	79
Blank	87	94
LCS	85	94
MS	91	96
MSD	89	97
Limits:	37-125	47-145

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Quality Control Summary

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Surrogate Quality Control

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13013 1225779 61666189-206

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure Cr and CrIII

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010B/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surfaces soil only)	*Herbicides EPA 8151 (surfaces soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-303-SA5B-SS-0.0-0.5	12.15.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-262-SA5B-SS-0.0-0.5MS	12.15.10	0925	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										MS/MSD
SL-302-SA5B-SS-0.0-0.5	12.15.10	0949	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
DUP06-SA5B-QC-121510	12.15.10	0935	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										DUP
SL-263-SA5B-SS-0.0-0.5	12.15.10	0907	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-264-SA5B-SS-0.0-0.5	12.15.10	0905	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-027-SA5B-SB-4.0-5.0	12.15.10	1019	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-027-SA5B-SB-9.0-10.0	12.15.10	1025	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-027-SA5B-SB-4.5	12.15.10	1015	soil	none	5 Encore Samplers	X	X		X																				
SL-027-SA5B-SB-8.5	12.15.10	1023	soil	none	5 Encore Samplers	X	X		X																				
TB-121510	12.15.10	0800	water	HCl	3-40 mL VOA vials	X	X		X																				trip blank
EB03-SA5B-121510	12.15.10	1215	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB03-SA5B-121510	12.15.10	1215	water	none	1-500 ml poly							X	X			X									X				rinsate
EB03-SA5B-121510	12.15.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB15-SA5B-121510	12.15.10	1230	water	none	5-1 liter ambers			X						X	X			X	X										rinsate
EB15-SA5B-121510	12.15.10	1230	water	none	1-500 ml poly							X	X			X									X				rinsate
EB15-SA5B-121510	12.15.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB15-SA5B-121510	12.15.10	1230	water	HCl	6-40 mL clear VOA vials	X	X																						rinsate
SL-132-SA5B-SS-0.0-0.5	12.15.10	1105	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-133-SA5B-SS-0.0-0.5	12.15.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-131-SA5B-SS-0.0-0.5	12.15.10	1125	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-135-SA5B-SS-0.0-0.5	12.15.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-134-SA5B-SS-0.0-0.5	12.15.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-298-SA5B-SB-4.0-5.0	12.15.10	1425	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-298-SA5B-SB-9.0-10.0	12.15.10	1435	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-298-SA5B-SB-4.5	12.15.10	1420	soil	none	5 Encore Samplers	X	X		X																				
SL-298-SA5B-SB-9.5	12.15.10	1430	soil	none	5 Encore Samplers	X	X		X																				
SED-021-SIV-SD-0.0-0.5	12.15.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-018-SIV-SD-0.0-0.5	12.15.10	1231	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-019-SIV-SD-0.0-0.5	12.15.10	1153	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-016-SIV-SD-0.0-0.5	12.15.10	1341	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-153-SA5B-SS-0.0-0.5	12.15.10	1408	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-155-SA5B-SS-0.0-0.5	12.15.10	1341	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-149-SA5B-SS-0.0-0.5	12.15.10	1550	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-156-SA5B-SS-0.0-0.5	12.15.10	1332	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-150-SA5B-SS-0.0-0.5	12.15.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-181-SA5B-SS-0.0-0.5	12.15.10	1526	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-136-SA5B-SS-0.0-0.5	12.15.10	1350	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-203-SA5B-SS-0.0-0.5	12.15.10	1500	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-257-SA5B-SS-0.0-0.5	12.15.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-204-SA5B-SS-0.0-0.5	12.15.10	1551	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
~~SL-297-SA5B-4.0-5.0~~	12.15.10	1600	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
~~SL-297-SA5B-7.0-8.0~~	12.15.10	1606	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
~~SL-297-SA5B-4.5~~	12.15.10	1558	soil	none	5 Encore Samplers	X	X		X																				
~~SL-297-SA5B-7.5~~	12.15.10	1603	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by: (Signature) — Date/Time 12.15.10 1700 — Received for Laboratory by: (Signature) — Date/Time 12/16/10 1000

Received by: (Signature) — Date/Time — Airbill No. 007822892

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 6

~~"SB" was~~ ~~added~~ SL-297-SA5B-4.0-5.0
NLM 1/5/10

"SB" was added to the following per PB:
SL-297-SA5B-4.0-5.0
SL-297-SA5B-4.5
SL-297-SA5B-7.0-8.0
SL-297-SA5B-7.5

NLM 1/5/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/16/2010
Group Number: 1225817
SDG: DX025
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-303-SA5B-SS-0.0-0.5 Soil	6166409
SL-262-SA5B-SS-0.0-0.5 Soil	6166410
SL-262-SA5B-SS-0.0-0.5MS Soil	6166411
SL-262-SA5B-SS-0.0-0.5MSD Soil	6166412
DUP06-SA5B-QC-121510 Soil	6166413
SL-302-SA5B-SS-0.0-0.5 Soil	6166414
SL-263-SA5B-SS-0.0-0.5 Soil	6166415
SL-264-SA5B-SS-0.0-0.5 Soil	6166416
SL-027-SA5B-SB-4.0-5.0 Soil	6166417
SL-027-SA5B-SB-8.0-9.0 Soil	6166418
EB03-SA5B-121510 Water	6166419
EB15-SA5B-121510 Water	6166420
SL-298-SA5B-SB-4.0-5.0 Soil	6166421
SL-298-SA5B-SS-9.0-10.0 Soil	6166422
SL-297-SA5B-SB-4.0-5.0 Soil	6166423
SL-297-SA5B-SB-7.0-8.0 Soil	6166424

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-303-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-303-SA5B-SS-0.0-0.5

LLI Sample # SW 6166409
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:40 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-303 SDG#: DX025-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-303-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-303-SA5B-SS-0.0-0.5

LLI Sample # SW 6166409
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:40 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-303 SDG#: DX025-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0466	U	0.0466	1.17	1
11031	12378-PeCDD	40321-76-4	0.178	J	0.0574	5.84	1
11031	123478-HxCDD	39227-28-6	0.209	JBQ	0.0561	5.84	1
11031	123678-HxCDD	57653-85-7	1.31	JBQ	0.0569	5.84	1
11031	123789-HxCDD	19408-74-3	1.47	JB	0.0547	5.84	1
11031	1234678-HpCDD	35822-46-9	15.5	B	0.0689	5.84	1
11031	OCDD	3268-87-9	203	B	0.0734	11.7	1
11031	2378-TCDF	51207-31-9	0.0952	JQ	0.0520	1.17	1
11031	12378-PeCDF	57117-41-6	0.221	JBQ	0.0322	5.84	1
11031	23478-PeCDF	57117-31-4	0.323	JB	0.0305	5.84	1
11031	123478-HxCDF	70648-26-9	0.196	JBQ	0.0361	5.84	1
11031	123678-HxCDF	57117-44-9	0.211	JBQ	0.0322	5.84	1
11031	123789-HxCDF	72918-21-9	1.27	JB	0.0384	5.84	1
11031	234678-HxCDF	60851-34-5	0.252	JB	0.0333	5.84	1
11031	1234678-HpCDF	67562-39-4	1.93	JB	0.0345	5.84	1
11031	1234789-HpCDF	55673-89-7	0.175	JB	0.0444	5.84	1
11031	OCDF	39001-02-0	6.24	JB	0.0624	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-303-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-303-SA5B-SS-0.0-0.5

LLI Sample # SW 6166409
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:40 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-303 SDG#: DX025-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-303-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-303-SA5B-SS-0.0-0.5

LLI Sample # SW 6166409
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:40 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-303 SDG#: DX025-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/19/2011 19:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-262-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166410
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-262-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166410
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	5.27		0.0571	1.05	1
11031	12378-PeCDD	40321-76-4	0.363	JQ	0.0615	5.27	1
11031	123478-HxCDD	39227-28-6	0.433	JBQ	0.0509	5.27	1
11031	123678-HxCDD	57653-85-7	0.859	JB	0.0501	5.27	1
11031	123789-HxCDD	19408-74-3	0.895	JB	0.0497	5.27	1
11031	1234678-HpCDD	35822-46-9	18.8	B	0.0689	5.27	1
11031	OCDD	3268-87-9	214	B	0.0660	10.5	1
11031	2378-TCDF	51207-31-9	0.279	JQ	0.0667	1.05	1
11031	12378-PeCDF	57117-41-6	0.395	JB	0.0354	5.27	1
11031	23478-PeCDF	57117-31-4	0.549	JBQ	0.0347	5.27	1
11031	123478-HxCDF	70648-26-9	0.312	JB	0.0354	5.27	1
11031	123678-HxCDF	57117-44-9	0.364	JB	0.0303	5.27	1
11031	123789-HxCDF	72918-21-9	0.198	JB	0.0395	5.27	1
11031	234678-HxCDF	60851-34-5	0.416	JB	0.0325	5.27	1
11031	1234678-HpCDF	67562-39-4	3.75	JB	0.0305	5.27	1
11031	1234789-HpCDF	55673-89-7	0.379	JBQ	0.0455	5.27	1
11031	OCDF	39001-02-0	8.41	JB	0.0562	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166410
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166410
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/19/2011 20:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-262-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166411
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-262-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166411
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	29.7		0.0566	1.05	1
11031	12378-PeCDD	40321-76-4	113		0.0671	5.27	1
11031	123478-HxCDD	39227-28-6	116	B	0.0693	5.27	1
11031	123678-HxCDD	57653-85-7	114	B	0.0720	5.27	1
11031	123789-HxCDD	19408-74-3	114	B	0.0686	5.27	1
11031	1234678-HpCDD	35822-46-9	137	B	0.0786	5.27	1
11031	OCDD	3268-87-9	593	B	0.0712	10.5	1
11031	2378-TCDF	51207-31-9	24.2		0.0745	1.05	1
11031	12378-PeCDF	57117-41-6	118	B	0.0410	5.27	1
11031	23478-PeCDF	57117-31-4	117	B	0.0435	5.27	1
11031	123478-HxCDF	70648-26-9	114	B	0.0697	5.27	1
11031	123678-HxCDF	57117-44-9	114	B	0.0550	5.27	1
11031	123789-HxCDF	72918-21-9	115	B	0.0761	5.27	1
11031	234678-HxCDF	60851-34-5	115	B	0.0613	5.27	1
11031	1234678-HpCDF	67562-39-4	116	B	0.0506	5.27	1
11031	1234789-HpCDF	55673-89-7	116	B	0.0823	5.27	1
11031	OCDF	39001-02-0	237	B	0.0597	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-262-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166411
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-262-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166411
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/19/2011 21:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-262-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166412
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-262-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166412
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	27.2		0.0546	1.05	1
11031	12378-PeCDD	40321-76-4	114		0.0672	5.27	1
11031	123478-HxCDD	39227-28-6	117	B	0.0607	5.27	1
11031	123678-HxCDD	57653-85-7	113	B	0.0617	5.27	1
11031	123789-HxCDD	19408-74-3	116	B	0.0589	5.27	1
11031	1234678-HpCDD	35822-46-9	145	B	0.0755	5.27	1
11031	OCDD	3268-87-9	562	B	0.0637	10.5	1
11031	2378-TCDF	51207-31-9	23.2		0.0707	1.05	1
11031	12378-PeCDF	57117-41-6	117	B	0.0414	5.27	1
11031	23478-PeCDF	57117-31-4	113	B	0.0399	5.27	1
11031	123478-HxCDF	70648-26-9	113	B	0.0720	5.27	1
11031	123678-HxCDF	57117-44-9	112	B	0.0627	5.27	1
11031	123789-HxCDF	72918-21-9	114	B	0.0823	5.27	1
11031	234678-HxCDF	60851-34-5	114	B	0.0692	5.27	1
11031	1234678-HpCDF	67562-39-4	122	B	0.0541	5.27	1
11031	1234789-HpCDF	55673-89-7	115	B	0.0831	5.27	1
11031	OCDF	39001-02-0	256	B	0.0530	10.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-262-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166412
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-262-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SS-0.0-0.5

LLI Sample # SW 6166412
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-262 SDG#: DX025-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/19/2011 22:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Analysis Report

Sample Description: **DUP06-SA5B-QC-121510 Soil**
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166413
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP06 SDG#: DX025-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP06-SA5B-QC-121510 Soil**
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166413
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP06 SDG#: DX025-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	5.58		0.0549	1.05	1
11031	12378-PeCDD	40321-76-4	0.471	J	0.0593	5.26	1
11031	123478-HxCDD	39227-28-6	0.343	JBQ	0.0601	5.26	1
11031	123678-HxCDD	57653-85-7	1.01	JB	0.0611	5.26	1
11031	123789-HxCDD	19408-74-3	0.865	JB	0.0615	5.26	1
11031	1234678-HpCDD	35822-46-9	18.6	B	0.0648	5.26	1
11031	OCDD	3268-87-9	247	B	0.0639	10.5	1
11031	2378-TCDF	51207-31-9	0.377	J	0.0756	1.05	1
11031	12378-PeCDF	57117-41-6	0.481	JBQ	0.0401	5.26	1
11031	23478-PeCDF	57117-31-4	0.746	JB	0.0427	5.26	1
11031	123478-HxCDF	70648-26-9	0.421	JB	0.0397	5.26	1
11031	123678-HxCDF	57117-44-9	0.319	JB	0.0329	5.26	1
11031	123789-HxCDF	72918-21-9	0.259	JB	0.0471	5.26	1
11031	234678-HxCDF	60851-34-5	0.485	JBQ	0.0386	5.26	1
11031	1234678-HpCDF	67562-39-4	3.57	JB	0.0325	5.26	1
11031	1234789-HpCDF	55673-89-7	0.430	JB	0.0558	5.26	1
11031	OCDF	39001-02-0	8.34	JB	0.0460	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP06-SA5B-QC-121510 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166413
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP06 SDG#: DX025-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP06-SA5B-QC-121510 Soil**
SSFL Area IV Collocated Soil Sampling
DUP06-SA5B-QC-121510

LLI Sample # SW 6166413
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:35 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP06 SDG#: DX025-03FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/19/2011 23:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-302-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166414
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-302 SDG#: DX025-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-302-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166414
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-302 SDG#: DX025-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	U	0.0366	1.13	1
11031	12378-PeCDD	40321-76-4	0.963	J	0.0669	5.63	1
11031	123478-HxCDD	39227-28-6	1.86	JB	0.0587	5.63	1
11031	123678-HxCDD	57653-85-7	6.71	B	0.0605	5.63	1
11031	123789-HxCDD	19408-74-3	4.26	JB	0.0597	5.63	1
11031	1234678-HpCDD	35822-46-9	172	B	0.122	5.63	1
11031	OCDD	3268-87-9	1,370	B	0.119	11.3	1
11031	2378-TCDF	51207-31-9	0.483	J	0.0734	1.13	1
11031	12378-PeCDF	57117-41-6	0.827	JB	0.0439	5.63	1
11031	23478-PeCDF	57117-31-4	1.07	JB	0.0385	5.63	1
11031	123478-HxCDF	70648-26-9	0.880	JB	0.0520	5.63	1
11031	123678-HxCDF	57117-44-9	1.06	JB	0.0483	5.63	1
11031	123789-HxCDF	72918-21-9	0.571	JB	0.0560	5.63	1
11031	234678-HxCDF	60851-34-5	1.37	JB	0.0500	5.63	1
11031	1234678-HpCDF	67562-39-4	15.3	B	0.0499	5.63	1
11031	1234789-HpCDF	55673-89-7	1.29	JB	0.0572	5.63	1
11031	OCDF	39001-02-0	32.9	B	0.0468	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-302-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166414
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-302 SDG#: DX025-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-302-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-302-SA5B-SS-0.0-0.5

LLI Sample # SW 6166414
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:49 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-302 SDG#: DX025-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 03:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-263-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166415
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-263 SDG#: DX025-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-263-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166415
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-263 SDG#: DX025-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0555	U	0.0555	1.07	1
11031	12378-PeCDD	40321-76-4	0.516	J	0.0818	5.33	1
11031	123478-HxCDD	39227-28-6	0.751	JB	0.0719	5.33	1
11031	123678-HxCDD	57653-85-7	2.05	JB	0.0726	5.33	1
11031	123789-HxCDD	19408-74-3	1.43	JB	0.0704	5.33	1
11031	1234678-HpCDD	35822-46-9	46.6	B	0.102	5.33	1
11031	OCDD	3268-87-9	500	B	0.111	10.7	1
11031	2378-TCDF	51207-31-9	0.170	JQ	0.0887	1.07	1
11031	12378-PeCDF	57117-41-6	0.696	JB	0.0446	5.33	1
11031	23478-PeCDF	57117-31-4	0.646	JB	0.0488	5.33	1
11031	123478-HxCDF	70648-26-9	0.579	JB	0.0607	5.33	1
11031	123678-HxCDF	57117-44-9	0.741	JB	0.0511	5.33	1
11031	123789-HxCDF	72918-21-9	0.170	JBQ	0.0733	5.33	1
11031	234678-HxCDF	60851-34-5	0.784	JB	0.0585	5.33	1
11031	1234678-HpCDF	67562-39-4	10.4	B	0.0464	5.33	1
11031	1234789-HpCDF	55673-89-7	0.971	JB	0.0846	5.33	1
11031	OCDF	39001-02-0	21.9	B	0.0839	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-263-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166415
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-263 SDG#: DX025-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-263-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SS-0.0-0.5

LLI Sample # SW 6166415
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:07 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-263 SDG#: DX025-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 04:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-264-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-264-SA5B-SS-0.0-0.5

LLI Sample # SW 6166416
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:05 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-264 SDG#: DX025-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-264-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-264-SA5B-SS-0.0-0.5

LLI Sample # SW 6166416
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:05 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-264 SDG#: DX025-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0539	JQ	0.0474	1.07	1
11031	12378-PeCDD	40321-76-4	0.147	JQ	0.0492	5.36	1
11031	123478-HxCDD	39227-28-6	0.216	JBQ	0.0508	5.36	1
11031	123678-HxCDD	57653-85-7	0.780	JB	0.0529	5.36	1
11031	123789-HxCDD	19408-74-3	0.646	JB	0.0507	5.36	1
11031	1234678-HpCDD	35822-46-9	15.9	B	0.0596	5.36	1
11031	OCDD	3268-87-9	198	B	0.0691	10.7	1
11031	2378-TCDF	51207-31-9	0.0615	U	0.0615	1.07	1
11031	12378-PeCDF	57117-41-6	0.247	JB	0.0287	5.36	1
11031	23478-PeCDF	57117-31-4	0.286	JBQ	0.0299	5.36	1
11031	123478-HxCDF	70648-26-9	0.258	JBQ	0.0362	5.36	1
11031	123678-HxCDF	57117-44-9	0.175	JB	0.0296	5.36	1
11031	123789-HxCDF	72918-21-9	0.172	JBQ	0.0453	5.36	1
11031	234678-HxCDF	60851-34-5	0.282	JBQ	0.0345	5.36	1
11031	1234678-HpCDF	67562-39-4	2.66	JB	0.0272	5.36	1
11031	1234789-HpCDF	55673-89-7	0.282	JB	0.0487	5.36	1
11031	OCDF	39001-02-0	6.50	JB	0.0498	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-264-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-264-SA5B-SS-0.0-0.5

LLI Sample # SW 6166416
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:05 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-264 SDG#: DX025-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-264-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-264-SA5B-SS-0.0-0.5

LLI Sample # SW 6166416
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 09:05 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-264 SDG#: DX025-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 05:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166417
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2745 SDG#: DX025-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166417
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2745 SDG#: DX025-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0325	U	0.0325	1.20	1
11031	12378-PeCDD	40321-76-4	0.0329	U	0.0329	5.98	1
11031	123478-HxCDD	39227-28-6	0.0234	U	0.0234	5.98	1
11031	123678-HxCDD	57653-85-7	0.0329	JBQ	0.0239	5.98	1
11031	123789-HxCDD	19408-74-3	0.0590	JBQ	0.0234	5.98	1
11031	1234678-HpCDD	35822-46-9	0.220	JBQ	0.0328	5.98	1
11031	OCDD	3268-87-9	0.768	JB	0.0478	12.0	1
11031	2378-TCDF	51207-31-9	0.0301	U	0.0301	1.20	1
11031	12378-PeCDF	57117-41-6	0.0573	JBQ	0.0183	5.98	1
11031	23478-PeCDF	57117-31-4	0.0576	JBQ	0.0207	5.98	1
11031	123478-HxCDF	70648-26-9	0.0565	JBQ	0.0248	5.98	1
11031	123678-HxCDF	57117-44-9	0.0656	JBQ	0.0188	5.98	1
11031	123789-HxCDF	72918-21-9	0.114	JBQ	0.0318	5.98	1
11031	234678-HxCDF	60851-34-5	0.109	JBQ	0.0236	5.98	1
11031	1234678-HpCDF	67562-39-4	0.307	JB	0.0199	5.98	1
11031	1234789-HpCDF	55673-89-7	0.0461	U	0.0461	5.98	1
11031	OCDF	39001-02-0	0.343	JBQ	0.0507	12.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166417
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2745 SDG#: DX025-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-4.0-5.0

LLI Sample # SW 6166417
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:19 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2745 SDG#: DX025-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 06:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166418
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2791 SDG#: DX025-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166418
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2791 SDG#: DX025-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0347	U	0.0347	1.10	1
11031	12378-PeCDD	40321-76-4	0.0319	U	0.0319	5.49	1
11031	123478-HxCDD	39227-28-6	0.0240	U	0.0240	5.49	1
11031	123678-HxCDD	57653-85-7	0.0250	U	0.0250	5.49	1
11031	123789-HxCDD	19408-74-3	0.0244	JBQ	0.0237	5.49	1
11031	1234678-HpCDD	35822-46-9	0.155	JBQ	0.0239	5.49	1
11031	OCDD	3268-87-9	0.428	JBQ	0.0384	11.0	1
11031	2378-TCDF	51207-31-9	0.0282	U	0.0282	1.10	1
11031	12378-PeCDF	57117-41-6	0.0338	JBQ	0.0184	5.49	1
11031	23478-PeCDF	57117-31-4	0.0897	JBQ	0.0178	5.49	1
11031	123478-HxCDF	70648-26-9	0.0733	JBQ	0.0204	5.49	1
11031	123678-HxCDF	57117-44-9	0.0472	JBQ	0.0181	5.49	1
11031	123789-HxCDF	72918-21-9	0.0347	JBQ	0.0228	5.49	1
11031	234678-HxCDF	60851-34-5	0.0935	JBQ	0.0195	5.49	1
11031	1234678-HpCDF	67562-39-4	0.283	JBQ	0.0200	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0462	JBQ	0.0281	5.49	1
11031	OCDF	39001-02-0	0.194	JB	0.0342	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166418
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2791 SDG#: DX025-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-027-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SB-8.0-9.0

LLI Sample # SW 6166418
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 10:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2791 SDG#: DX025-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 07:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Analysis Report

Sample Description: EB03-SA5B-121510 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5B-121510

LLI Sample # WW 6166419
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:15 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB03 SDG#: DX025-09EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	1.99	U	1.99	1.99	1
10915	12378-PeCDD	40321-76-4	1.84	JB	0.909	9.94	1
10915	123478-HxCDD	39227-28-6	0.664	JB	0.451	9.94	1
10915	123678-HxCDD	57653-85-7	0.464	U	0.464	9.94	1
10915	123789-HxCDD	19408-74-3	0.733	JB	0.505	9.94	1
10915	1234678-HpCDD	35822-46-9	2.04	JBQ	0.477	9.94	1
10915	OCDD	3268-87-9	3.45	JB	0.530	19.9	1
10915	2378-TCDF	51207-31-9	0.381	U	0.381	1.99	1
10915	12378-PeCDF	57117-41-6	1.08	JB	0.337	9.94	1
10915	23478-PeCDF	57117-31-4	0.698	JBQ	0.284	9.94	1
10915	123478-HxCDF	70648-26-9	0.945	JB	0.305	9.94	1
10915	123678-HxCDF	57117-44-9	0.462	JB	0.299	9.94	1
10915	123789-HxCDF	72918-21-9	0.692	JB	0.326	9.94	1
10915	234678-HxCDF	60851-34-5	0.896	JB	0.285	9.94	1
10915	1234678-HpCDF	67562-39-4	3.03	JB	0.217	9.94	1
10915	1234789-HpCDF	55673-89-7	0.623	JB	0.251	9.94	1
10915	OCDF	39001-02-0	1.89	JBQ	0.505	19.9	1

The recoveries of several labeled compounds were outside QC limits in this sample and the blank and OPR associated with this sample. The sample was re-extracted outside the project specified holding time with all labeled compound recoveries within QC specification. Comparable native compound results were observed between the two extractions.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	5	25 - 164
13C12-12378-PeCDD	16	25 - 181
13C12-123478-HxCDD	22	32 - 141
13C12-123678-HxCDD	21	28 - 130
13C12-123789-HxCDD	20	28 - 130
13C12-1234678-HpCDD	27	23 - 140
13C12-OCDD	28	17 - 157
13C12-2378-TCDF	25	24 - 169
13C12-12378-PeCDF	23	24 - 185
13C12-23478-PeCDF	26	21 - 178
13C12-123478-HxCDF	24	26 - 152
13C12-123678-HxCDF	23	26 - 123
13C12-234678-HxCDF	24	28 - 136
13C12-123789-HxCDF	24	29 - 147
13C12-1234678-HpCDF	26	28 - 143
13C12-1234789-HpCDF	26	26 - 138
13C12-OCDF	26	17 - 157
13C12-1278-TCDD (CRS)	15	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB03-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5B-121510

LLI Sample # WW 6166419
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:15 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB03 SDG#: DX025-09EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362001	12/30/2010 19:19	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10362001	12/28/2010 06:30	Ginelle L Haines	1

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Analysis Report

Sample Description: **EB15-SA5B-121510 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166420
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB15 SDG#: DX025-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	1.42	U	1.42	2.23	1
10915	12378-PeCDD	40321-76-4	0.695	JBQ	0.463	11.2	1
10915	123478-HxCDD	39227-28-6	0.178	U	0.178	11.2	1
10915	123678-HxCDD	57653-85-7	0.337	JBQ	0.177	11.2	1
10915	123789-HxCDD	19408-74-3	0.275	JBQ	0.203	11.2	1
10915	1234678-HpCDD	35822-46-9	0.804	JB	0.227	11.2	1
10915	OCDD	3268-87-9	1.74	JBQ	0.222	22.3	1
10915	2378-TCDF	51207-31-9	0.180	JBQ	0.177	2.23	1
10915	12378-PeCDF	57117-41-6	0.254	JBQ	0.149	11.2	1
10915	23478-PeCDF	57117-31-4	0.675	JB	0.124	11.2	1
10915	123478-HxCDF	70648-26-9	0.330	JB	0.118	11.2	1
10915	123678-HxCDF	57117-44-9	0.239	JB	0.112	11.2	1
10915	123789-HxCDF	72918-21-9	0.119	U	0.119	11.2	1
10915	234678-HxCDF	60851-34-5	0.404	JBQ	0.111	11.2	1
10915	1234678-HpCDF	67562-39-4	0.904	JB	0.0894	11.2	1
10915	1234789-HpCDF	55673-89-7	0.310	JB	0.104	11.2	1
10915	OCDF	39001-02-0	0.909	JBQ	0.200	22.3	1

The recoveries of several labeled compounds were outside QC limits in this sample and the blank and OPR associated with this sample. The sample could not be re-extracted since only one sample bottle was submitted for this analysis.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	6	25 - 164
13C12-12378-PeCDD	29	25 - 181
13C12-123478-HxCDD	46	32 - 141
13C12-123678-HxCDD	44	28 - 130
13C12-123789-HxCDD	41	28 - 130
13C12-1234678-HpCDD	53	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	48	24 - 169
13C12-12378-PeCDF	54	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	53	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	9	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB15-SA5B-121510 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5B-121510

LLI Sample # WW 6166420
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 12:30 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB15 SDG#: DX025-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362001	12/30/2010 20:15	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10362001	12/28/2010 06:30	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166421
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9845 SDG#: DX025-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166421
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9845 SDG#: DX025-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0601	U	0.0601	1.13	1
11031	12378-PeCDD	40321-76-4	0.0692	JQ	0.0454	5.67	1
11031	123478-HxCDD	39227-28-6	0.0337	U	0.0337	5.67	1
11031	123678-HxCDD	57653-85-7	0.129	JBQ	0.0347	5.67	1
11031	123789-HxCDD	19408-74-3	0.201	JB	0.0325	5.67	1
11031	1234678-HpCDD	35822-46-9	0.513	JBQ	0.0434	5.67	1
11031	OCDD	3268-87-9	2.40	JB	0.0440	11.3	1
11031	2378-TCDF	51207-31-9	0.0574	U	0.0574	1.13	1
11031	12378-PeCDF	57117-41-6	0.0986	JB	0.0252	5.67	1
11031	23478-PeCDF	57117-31-4	0.0661	JB	0.0287	5.67	1
11031	123478-HxCDF	70648-26-9	0.0515	JBQ	0.0304	5.67	1
11031	123678-HxCDF	57117-44-9	0.0454	JBQ	0.0221	5.67	1
11031	123789-HxCDF	72918-21-9	0.209	JBQ	0.0364	5.67	1
11031	234678-HxCDF	60851-34-5	0.0898	JBQ	0.0269	5.67	1
11031	1234678-HpCDF	67562-39-4	0.149	JBQ	0.0183	5.67	1
11031	1234789-HpCDF	55673-89-7	0.0363	U	0.0363	5.67	1
11031	OCDF	39001-02-0	0.205	JBQ	0.0700	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166421
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9845 SDG#: DX025-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-298-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-4.0-5.0

LLI Sample # SW 6166421
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:25 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9845 SDG#: DX025-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 08:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-298-SA5B-SS-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-9.0-10.0

LLI Sample # SW 6166422
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9891 SDG#: DX025-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-298-SA5B-SS-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-9.0-10.0

LLI Sample # SW 6166422
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9891 SDG#: DX025-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0543	U	0.0543	1.06	1
11031	12378-PeCDD	40321-76-4	0.0575	JQ	0.0411	5.32	1
11031	123478-HxCDD	39227-28-6	0.0289	U	0.0289	5.32	1
11031	123678-HxCDD	57653-85-7	0.0289	U	0.0289	5.32	1
11031	123789-HxCDD	19408-74-3	0.0341	JB	0.0299	5.32	1
11031	1234678-HpCDD	35822-46-9	0.0999	JBQ	0.0380	5.32	1
11031	OCDD	3268-87-9	0.357	JBQ	0.0460	10.6	1
11031	2378-TCDF	51207-31-9	0.0552	JQ	0.0461	1.06	1
11031	12378-PeCDF	57117-41-6	0.0335	JB	0.0227	5.32	1
11031	23478-PeCDF	57117-31-4	0.0715	JB	0.0221	5.32	1
11031	123478-HxCDF	70648-26-9	0.0439	JBQ	0.0184	5.32	1
11031	123678-HxCDF	57117-44-9	0.0149	U	0.0149	5.32	1
11031	123789-HxCDF	72918-21-9	0.0297	JB	0.0223	5.32	1
11031	234678-HxCDF	60851-34-5	0.0440	JBQ	0.0179	5.32	1
11031	1234678-HpCDF	67562-39-4	0.0962	JB	0.0171	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0518	JBQ	0.0274	5.32	1
11031	OCDF	39001-02-0	0.153	JBQ	0.0457	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Sample Description: **SL-298-SA5B-SS-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-9.0-10.0

LLI Sample # SW 6166422
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9891 SDG#: DX025-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-298-SA5B-SS-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-9.0-10.0

LLI Sample # SW 6166422
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 14:35 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9891 SDG#: DX025-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 09:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-297-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166423
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9745 SDG#: DX025-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-297-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166423
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9745 SDG#: DX025-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0482	U	0.0482	1.15	1
11031	12378-PeCDD	40321-76-4	0.0407	U	0.0407	5.76	1
11031	123478-HxCDD	39227-28-6	0.0274	U	0.0274	5.76	1
11031	123678-HxCDD	57653-85-7	0.0353	JBQ	0.0274	5.76	1
11031	123789-HxCDD	19408-74-3	0.0865	JBQ	0.0264	5.76	1
11031	1234678-HpCDD	35822-46-9	0.535	JBQ	0.0282	5.76	1
11031	OCDD	3268-87-9	3.80	JB	0.0349	11.5	1
11031	2378-TCDF	51207-31-9	0.0361	J	0.0350	1.15	1
11031	12378-PeCDF	57117-41-6	0.0352	JB	0.0196	5.76	1
11031	23478-PeCDF	57117-31-4	0.0509	JBQ	0.0200	5.76	1
11031	123478-HxCDF	70648-26-9	0.0210	U	0.0210	5.76	1
11031	123678-HxCDF	57117-44-9	0.0562	JBQ	0.0161	5.76	1
11031	123789-HxCDF	72918-21-9	0.0922	JB	0.0232	5.76	1
11031	234678-HxCDF	60851-34-5	0.0213	JB	0.0191	5.76	1
11031	1234678-HpCDF	67562-39-4	0.200	JBQ	0.0134	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0393	JBQ	0.0257	5.76	1
11031	OCDF	39001-02-0	0.177	JBQ	0.0402	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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Analysis Report

Sample Description: **SL-297-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166423
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9745 SDG#: DX025-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-297-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-297-SA5B-SB-4.0-5.0

LLI Sample # SW 6166423
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:00 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9745 SDG#: DX025-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 11:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-297-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-7.0-8.0

LLI Sample # SW 6166424
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9778 SDG#: DX025-14*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-297-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-7.0-8.0

LLI Sample # SW 6166424
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9778 SDG#: DX025-14*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0634	U	0.0634	1.20	1
11031	12378-PeCDD	40321-76-4	0.0828	J	0.0614	6.00	1
11031	123478-HxCDD	39227-28-6	0.0411	JBQ	0.0392	6.00	1
11031	123678-HxCDD	57653-85-7	0.0690	JBQ	0.0384	6.00	1
11031	123789-HxCDD	19408-74-3	0.0907	JB	0.0386	6.00	1
11031	1234678-HpCDD	35822-46-9	0.288	JBQ	0.0476	6.00	1
11031	OCDD	3268-87-9	1.29	JBQ	0.0471	12.0	1
11031	2378-TCDF	51207-31-9	0.0680	U	0.0680	1.20	1
11031	12378-PeCDF	57117-41-6	0.0615	JBQ	0.0282	6.00	1
11031	23478-PeCDF	57117-31-4	0.0880	JBQ	0.0284	6.00	1
11031	123478-HxCDF	70648-26-9	0.0349	JBQ	0.0295	6.00	1
11031	123678-HxCDF	57117-44-9	0.0510	JBQ	0.0243	6.00	1
11031	123789-HxCDF	72918-21-9	0.213	JB	0.0347	6.00	1
11031	234678-HxCDF	60851-34-5	0.0475	JBQ	0.0294	6.00	1
11031	1234678-HpCDF	67562-39-4	0.150	JB	0.0175	6.00	1
11031	1234789-HpCDF	55673-89-7	0.0391	JB	0.0302	6.00	1
11031	OCDF	39001-02-0	0.107	JB	0.0618	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	55	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	54	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	61	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-297-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-7.0-8.0

LLI Sample # SW 6166424
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9778 SDG#: DX025-14*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-297-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SB-7.0-8.0

LLI Sample # SW 6166424
LLI Group # 1225817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/15/2010 16:06 by PH

Submitted: 12/16/2010 10:00
Reported: 02/01/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D9778 SDG#: DX025-14*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11007001	01/20/2011 12:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11007001	01/07/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10356162401B	12/22/2010 20:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225817
Reported: 02/01/11 at 11:41 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10356162401B	Sample number(s): 6166409-6166418,6166421-6166424									
28a Moisture Content by 160.3						99		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10362001	Sample number(s): 6166419-6166420									
2378-TCDD	2.81		1.76	2.00	pg/l	89		67-158		
12378-PeCDD	0.684	J	0.492	10.0	pg/l	96		70-142		
123478-HxCDD	0.485	J	0.235	10.0	pg/l	106		70-164		
123678-HxCDD	0.512	J	0.243	10.0	pg/l	104		76-134		
123789-HxCDD	0.483	J	0.269	10.0	pg/l	106		64-162		
1234678-HpCDD	1.35	J	0.246	10.0	pg/l	108		70-140		
OCDD	2.39	J	0.274	20.0	pg/l	118		78-144		
2378-TCDF	0.181	J	0.166	2.00	pg/l	95		75-158		
12378-PeCDF	0.474	J	0.125	10.0	pg/l	104		80-134		
23478-PeCDF	0.810	J	0.113	10.0	pg/l	102		68-160		
123478-HxCDF	0.599	J	0.136	10.0	pg/l	111		72-134		
123678-HxCDF	0.568	J	0.132	10.0	pg/l	113		84-130		
123789-HxCDF	0.637	J	0.143	10.0	pg/l	111		78-130		
234678-HxCDF	0.505	J	0.136	10.0	pg/l	109		70-156		
1234678-HpCDF	1.41	J	0.122	10.0	pg/l	116		82-122		
1234789-HpCDF	0.582	J	0.148	10.0	pg/l	117		78-138		
OCDF	1.43	J	0.269	20.0	pg/l	122		63-170		
Batch number: 11007001	Sample number(s): 6166409-6166418,6166421-6166424									
2378-TCDD	0.0733	U	0.0733	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0526	U	0.0526	5.00	ng/kg	111		70-142		
123478-HxCDD	0.0485	J	0.0314	5.00	ng/kg	111		70-164		
123678-HxCDD	0.0470	J	0.0325	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0541	J	0.0303	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.218	J	0.0423	5.00	ng/kg	108		70-140		
OCDD	0.291	J	0.0371	10.0	ng/kg	108		78-144		
2378-TCDF	0.0647	U	0.0647	1.00	ng/kg	124		75-158		
12378-PeCDF	0.0431	J	0.0316	5.00	ng/kg	112		80-134		
23478-PeCDF	0.0990	J	0.0343	5.00	ng/kg	110		68-160		
123478-HxCDF	0.114	J	0.0336	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0761	J	0.0262	5.00	ng/kg	108		84-130		
123789-HxCDF	0.129	J	0.0372	5.00	ng/kg	109		78-130		
234678-HxCDF	0.111	J	0.0280	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.352	J	0.0175	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0959	J	0.0326	5.00	ng/kg	110		78-138		
OCDF	0.310	J	0.0606	10.0	ng/kg	108		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225817
Reported: 02/01/11 at 11:41 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10356162401B	Sample number(s): 6166409-6166418,6166421-6166424					BKG: P166190			
28a Moisture Content by 160.3						5.2	4.8	7	20
Batch number: 11007001	Sample number(s): 6166409-6166418,6166421-6166424 UNSPK: 6166410								
2378-TCDD	116	104	67-158	9	25				
12378-PeCDD	106	108	70-142	1	25				
123478-HxCDD	109	111	70-164	1	25				
123678-HxCDD	107	106	76-134	1	25				
123789-HxCDD	107	109	64-162	2	25				
1234678-HpCDD	112	119	70-140	6	25				
OCDD	180*	165*	78-144	5	25				
2378-TCDF	114	109	75-158	4	25				
12378-PeCDF	111	111	80-134	0	25				
23478-PeCDF	110	107	68-160	3	25				
123478-HxCDF	108	107	72-134	1	25				
123678-HxCDF	108	106	84-130	2	25				
123789-HxCDF	109	108	78-130	1	25				
234678-HxCDF	108	107	70-156	1	25				
1234678-HpCDF	107	112	82-122	5	25				
1234789-HpCDF	110	108	78-138	1	25				
OCDF	108	118	63-170	8	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 10362001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6166419	5*	26	24*	23*	24*	24*
6166420	6*	58	51	50	53	55
Blank	6*	70	67	66	66	69
OPR	10*	63	56	55	57	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6166419	26*	26	26	15*	16*	22*
6166420	52	53	49	9*	29	46
Blank	64	61	54	11*	32	58
OPR	55	54	48	17*	37	52
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225817
Reported: 02/01/11 at 11:41 PM

Surrogate Quality Control

6166419	21*	20*	27	28	25	23*
6166420	44	41	53	50	48	54
Blank	54	49	63	55	57	68
OPR	50	46	56	48	51	60
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11007001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6166409	72	91	78	79	77	75
6166410	75	90	77	81	77	70
6166411	76	89	76	86	77	72
6166412	77	93	79	86	79	76
6166413	72	82	74	83	74	69
6166414	79	99	88	87	85	85
6166415	74	80	71	79	71	64
6166416	67	82	68	77	69	59
6166417	73	77	71	86	70	58
6166418	70	86	72	76	73	69
6166421	68	77	69	85	71	59
6166422	67	81	70	80	70	64
6166423	69	84	74	89	78	69
6166424	52	59	54	62	54	50
Blank	68	77	67	79	75	64
MS	76	89	76	86	77	72
MSD	77	93	79	86	79	76
OPR	70	75	64	82	70	58
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6166409	81	74	66	77	90	76
6166410	91	71	63	80	90	77
6166411	96	69	62	82	92	80
6166412	93	72	62	83	93	80
6166413	99	68	63	78	83	80
6166414	85	82	74	90	95	83
6166415	92	60	54	80	85	75
6166416	93	59	55	75	86	75
6166417	106	56	51	81	83	78
6166418	83	65	58	75	84	73
6166421	103	58	52	79	86	79
6166422	92	64	57	74	83	75
6166423	108	67	60	79	90	81
6166424	74	48	42	61	60	58
Blank	102	63	60	84	85	81
MS	96	69	62	82	92	80
MSD	93	72	62	83	93	80
OPR	104	56	52	79	84	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225817
Reported: 02/01/11 at 11:41 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6166409	73	75	76	71	80	91
6166410	74	76	82	78	80	96
6166411	76	79	81	77	80	102
6166412	75	79	82	77	83	103
6166413	73	76	82	79	77	92
6166414	80	81	81	77	90	98
6166415	73	75	76	70	77	92
6166416	70	72	77	72	70	93
6166417	76	77	80	75	74	95
6166418	68	71	74	68	75	90
6166421	75	78	80	75	70	94
6166422	71	72	76	69	70	90
6166423	79	84	87	83	73	97
6166424	55	57	59	55	55	67
Blank	76	80	84	82	69	89
MS	76	79	81	77	80	102
MSD	75	79	82	77	83	103
OPR	74	78	83	81	67	90
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1225817 6166409-24

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure Cr III and Cr VI

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020/6B/7471A	*Hex Chrome EPA 7196@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Diority/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-303-SA5B-SS-0.0-0.5	12.15.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-262-SA5B-SS-0.0-0.5MS	12.15.10	0925	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										
SL-302-SA5B-SS-0.0-0.5	12.15.10	0949	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										MS/MSD
DUP06-SA5B-QC-121510	12.15.10	0935	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-263-SA5B-SS-0.0-0.5	12.15.10	0907	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										DUP
SL-264-SA5B-SS-0.0-0.5	12.15.10	0905	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-027-SA5B-SB-4.0-5.0	12.15.10	1019	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-027-SA5B-SB-9.0-10.0	12.15.10	1025	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-027-SA5B-SB-4.5	12.15.10	1015	soil	none	5 Encore Samplers	X	X		X																				
SL-027-SA5B-SB-8.5	12.15.10	1023	soil	none	5 Encore Samplers	X	X		X																				
TB-121510	12.15.10	0800	water	HCl	3-40 mL VOA vials	X	X		X																				trip blank
EB03-SA5B-121510	12.15.10	1215	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB03-SA5B-121510	12.15.10	1215	water	none	1-500 ml poly							X	X			X									X				rinsate
EB03-SA5B-121510	12.15.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB15-SA5B-121510	12.15.10	1230	water	none	5-1 liter ambers			X						X	X			X	X										rinsate
EB15-SA5B-121510	12.15.10	1230	water	none	1-500 ml poly							X	X			X									X				rinsate
EB15-SA5B-121510	12.15.10	1230	water	HNO3	1-500 ml poly						X																		rinsate
EB15-SA5B-121510	12.15.10	1230	water	HCl	6-40 mL clear VOA vials	X	X																						rinsate
SL-132-SA5B-SS-0.0-0.5	12.15.10	1105	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-133-SA5B-SS-0.0-0.5	12.15.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-131-SA5B-SS-0.0-0.5	12.15.10	1125	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-135-SA5B-SS-0.0-0.5	12.15.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-134-SA5B-SS-0.0-0.5	12.15.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-298-SA5B-SB-4.0-5.0	12.15.10	1425	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-298-SA5B-SB-9.0-10.0	12.15.10	1435	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
SL-298-SA5B-SB-4.5	12.15.10	1420	soil	none	5 Encore Samplers	X	X		X																				
SL-298-SA5B-SB-9.5	12.15.10	1430	soil	none	5 Encore Samplers	X	X		X																				
SED-021-SIV-SD-0.0-0.5	12.15.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-018-SIV-SD-0.0-0.5	12.15.10	1231	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-019-SIV-SD-0.0-0.5	12.15.10	1153	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-016-SIV-SD-0.0-0.5	12.15.10	1341	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-153-SA5B-SS-0.0-0.5	12.15.10	1408	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-155-SA5B-SS-0.0-0.5	12.15.10	1341	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-149-SA5B-SS-0.0-0.5	12.15.10	1550	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-156-SA5B-SS-0.0-0.5	12.15.10	1332	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-150-SA5B-SS-0.0-0.5	12.15.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-181-SA5B-SS-0.0-0.5	12.15.10	1526	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-136-SA5B-SS-0.0-0.5	12.15.10	1350	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-203-SA5B-SS-0.0-0.5	12.15.10	1500	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-257-SA5B-SS-0.0-0.5	12.15.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-204-SA5B-SS-0.0-0.5	12.15.10	1551	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
~~SL-297-SA5B-4.0-5.0~~	12.15.10	1600	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
~~SL-297-SA5B-7.0-8.0~~	12.15.10	1606	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
~~SL-297-SA5B-4.5~~	12.15.10	1558	soil	none	5 Encore Samplers	X	X		X																				
~~SL-297-SA5B-7.5~~	12.15.10	1603	soil	none	5 Encore Samplers	X	X		X																				

Relinquished by: (Signature) — Date/Time 12.15.10 1700 — Received for Laboratory by: (Signature) — Date/Time 12/16/10 1000

Received by: (Signature) — Date/Time — Airbill # 00782892

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 6

"SB" was added to the following per PB:

SL-297-SA5B-4.0-5.0

SL-297-SA5B-4.5

SL-297-SA5B-7.0-8.0

SL-297-SA5B-7.5

NLM 1/5/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/17/2010
Group Number: 1225974
SDG: DE042
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SED-011-SIV-SD-0.0-0.5 Soil	6167468
SED-013-SIV-SD-0.0-0.5 Soil	6167469
SED-017-SIV-SD-0.0-0.5 Soil	6167470
SED-019-SIV-SD-0.0-0.5 Soil	6167471
SED-020-SIV-SD-0.0-0.5 Soil	6167472
SL-147-SA5B-SS-0.0-0.5 Soil	6167473
SL-169-SA5B-SS-0.0-0.5 Soil	6167474
SL-172-SA5B-SS-0.0-0.5 Soil	6167475
SL-173-SA5B-SS-0.0-0.5 Soil	6167476
SL-176-SA5B-SS-0.0-0.5 Soil	6167477
SL-178-SA5B-SS-0.0-0.5 Soil	6167478
SL-186-SA5B-SS-0.0-0.5 Soil	6167479
SL-187-SA5B-SS-0.0-0.5 Soil	6167480
SL-189-SA5B-SS-0.0-0.5 Soil	6167481
SL-189-SA5B-SS-0.0-0.5MS Soil	6167482
SL-189-SA5B-SS-0.0-0.5MSD Soil	6167483
SL-189-SA5B-SS-0.0-0.5DUP Soil	6167484
SL-192-SA5B-SS-0.0-0.5 Soil	6167485
SL-194-SA5B-SS-0.0-0.5 Soil	6167486
SL-196-SA5B-SS-0.0-0.5 Soil	6167487
SL-198-SA5B-SS-0.0-0.5 Soil	6167488
SL-199-SA5B-SS-0.0-0.5 Soil	6167489
SL-202-SA5B-SS-0.0-0.5 Soil	6167490

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

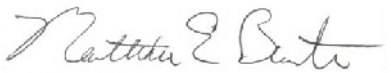

Matthew E. Barton
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-011-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-011-SIV-SD-0.0-0.5

LLI Sample # SW 6167468
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SD011 SDG#: DE042-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	95	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

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SD011 SDG#: DE042-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.40	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.0		0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	2.7		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	4.0		0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	1.5	J	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	8.6	J	6.6	20	1
10138	Phenanthrene	85-01-8	2.5		0.74	1.8	1
10138	Pyrene	129-00-0	3.7		0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.9	J	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9	1
10401	2,4-DB	94-82-6	8.9	U	8.9	8.9	1
10401	Dicamba	1918-00-9	0.59	J	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	84	U	84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.15	U	0.15	0.18	1
01363	Alpha BHC	319-84-6	1.2		0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.11	U	0.11	0.18	1
01363	Chlordane	57-74-9	5.0	U	5.0	5.0	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37	1
01363	p,p-DDE	72-55-9	1.4	U	1.4	1.4	1
01363	p,p-DDT	50-29-3	1.2	U	1.2	1.2	1
01363	Delta BHC	319-86-8	0.27		0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37	1
01363	Endosulfan I	959-98-8	0.13	J	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	0.37	1
01363	Endrin	72-20-8	0.073	U	0.073	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.64	U	0.64	0.64	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.13	U	0.13	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.45	U	0.45	0.45	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.60	U	0.60	0.60	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	2.6	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	2.2		0.36	1.9	1
10225	PCB-1260	11096-82-5	1.1	J	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

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SD011 SDG#: DE042-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.44	21.6	1
07914	Boron	7440-42-8	5.55		0.962	5.40	1
01650	Calcium	7440-70-2	3,840		6.63	21.6	1
01654	Iron	7439-89-6	18,200		5.09	21.6	1
01656	Lithium	7439-93-2	23.4		0.24	2.2	1
01657	Magnesium	7439-95-4	4,210		2.75	10.8	1
06958	Manganese	7439-96-5	330		0.0843	0.540	1
10145	Phosphorus	7723-14-0	457		0.605	10.8	1
01662	Potassium	7440-09-7	3,370		19.5	54.0	1
01667	Sodium	7440-23-5	75.3	J	40.3	108	1
07968	Strontium	7440-24-6	18.4		0.0670	0.540	1
06969	Tin	7440-31-5	2.50	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,080		0.411	1.08	1
10146	Zirconium	7440-67-7	0.908	U	0.908	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.189	J	0.0662	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.56		0.0662	0.441	2
06126	Barium	7440-39-3	119		0.119	0.441	2
06127	Beryllium	7440-41-7	0.675		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.279		0.0397	0.110	2
06131	Chromium	7440-47-3	20.1		0.132	0.441	2
06132	Cobalt	7440-48-4	6.24		0.0221	0.110	2
06133	Copper	7440-50-8	9.70		0.0728	0.441	2
06135	Lead	7439-92-1	13.8		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.641		0.0551	0.110	2
06139	Nickel	7440-02-0	12.9		0.110	0.441	2
06141	Selenium	7782-49-2	0.148	J	0.0441	0.441	2
06142	Silver	7440-22-4	0.0437	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.368		0.0331	0.110	2
06148	Vanadium	7440-62-2	41.7		0.0243	0.110	2
06149	Zinc	7440-66-6	91.8		0.617	3.31	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

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LLI Sample # SW 6167468
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	437	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.19	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 13:42	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 17:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 00:05	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 15:36	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 18:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/30/2010 23:24	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-011-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-011-SIV-SD-0.0-0.5

LLI Sample # SW 6167468
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DE042-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 16:54	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 15:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 15:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 12:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 15:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 08:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/12/2011 22:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 15:30	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SED-011-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-011-SIV-SD-0.0-0.5

LLI Sample # SW 6167468
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DE042-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SED-013-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167469
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DE042-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-013-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167469
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DE042-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	2.2		0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	3.0		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	3.8		0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	2.1		0.77	1.9	1
10138	Pyrene	129-00-0	3.4		0.77	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	0.71	U	0.71	2.0	1
10401	Dicamba	1918-00-9	0.78	J	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0	1
10401	MCPA	94-74-6	870		87	290	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-013-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167469
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DE042-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	7.0	U	7.0	7.0	1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39	1
01363	p,p-DDE	72-55-9	1.7	U	1.7	1.7	1
01363	p,p-DDT	50-29-3	1.1	U	1.1	1.1	1
01363	Delta BHC	319-86-8	0.071	J	0.041	0.19	1
01363	Dieldrin	60-57-1	0.27	U	0.27	0.39	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.85	U	0.85	0.85	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.55	U	0.55	0.55	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	4.7		1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.57	U	0.57	2.0	1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.57	U	0.57	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	5.9		0.38	2.0	1
10225	PCB-1260	11096-82-5	3.3		0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		5.78	23.0	1
07914	Boron	7440-42-8	4.43	J	1.02	5.75	1
01650	Calcium	7440-70-2	4,700		7.05	23.0	1
01654	Iron	7439-89-6	27,700		5.41	23.0	1
01656	Lithium	7439-93-2	32.2		0.25	2.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-013-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167469
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SD013 SDG#: DE042-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	6,690		2.92	11.5	1
06958	Manganese	7439-96-5	524		0.0897	0.575	1
10145	Phosphorus	7723-14-0	449		0.644	11.5	1
01662	Potassium	7440-09-7	4,530		20.7	57.5	1
01667	Sodium	7440-23-5	112	J	42.9	115	1
07968	Strontium	7440-24-6	24.5		0.0713	0.575	1
06969	Tin	7440-31-5	2.83	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,550		0.437	1.15	1
10146	Zirconium	7440-67-7	0.966	U	0.966	5.75	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0657	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.74		0.0657	0.438	2
06126	Barium	7440-39-3	180		0.118	0.438	2
06127	Beryllium	7440-41-7	1.06		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.423		0.0394	0.109	2
06131	Chromium	7440-47-3	37.4		0.131	0.438	2
06132	Cobalt	7440-48-4	9.87		0.0219	0.109	2
06133	Copper	7440-50-8	15.4		0.0722	0.438	2
06135	Lead	7439-92-1	19.8		0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.992		0.0547	0.109	2
06139	Nickel	7440-02-0	21.7		0.109	0.438	2
06141	Selenium	7782-49-2	0.207	J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0981	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.575		0.0328	0.109	2
06148	Vanadium	7440-62-2	69.0		0.0241	0.109	2
06149	Zinc	7440-66-6	141		0.613	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0198	J	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.95	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	418		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SED-013-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167469
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DE042-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.32	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 14:12	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 18:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 00:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 18:38	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/30/2010 23:43	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-013-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167469
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DE042-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:05	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 15:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 15:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 15:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 09:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/12/2011 23:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 15:46	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-017-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167470
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DE042-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	51	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-017-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167470
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DE042-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	1.8	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.9	J	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9	1
10401	Dicamba	1918-00-9	0.49	J	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	360	U	360	360	1
10401	MCPP (Mecoprop)	93-65-2	220	J	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: **SED-017-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167470
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DE042-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	2.1	U	2.1	3.8	1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.38	1
01363	p,p-DDE	72-55-9	1.3	U	1.3	1.3	1
01363	p,p-DDT	50-29-3	2.1	U	2.1	2.1	1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	0.34	U	0.34	0.38	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.15	U	0.15	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38	1
01363	Endrin	72-20-8	0.075	U	0.075	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.38	1
01363	Endrin Ketone	53494-70-5	0.22	U	0.22	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.055	U	0.055	0.19	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.55	U	0.55	0.55	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5	2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5	2
10225	Aroclor 5460	11126-42-4	13		2.3	7.5	2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.8	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.8	2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.8	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.8	2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.8	2
10225	PCB-1254	11097-69-1	4.1		0.75	3.8	2
10225	PCB-1260	11096-82-5	6.9		0.75	3.8	2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.8	2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.8	2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SED-017-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167470
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DE042-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.57	22.2	1
07914	Boron	7440-42-8	5.92		0.986	5.54	1
01650	Calcium	7440-70-2	5,400		6.79	22.2	1
01654	Iron	7439-89-6	17,500		5.22	22.2	1
01656	Lithium	7439-93-2	22.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,030		2.81	11.1	1
06958	Manganese	7439-96-5	270		0.0864	0.554	1
10145	Phosphorus	7723-14-0	475		0.620	11.1	1
01662	Potassium	7440-09-7	3,590		19.9	55.4	1
01667	Sodium	7440-23-5	79.4	J	41.3	111	1
07968	Strontium	7440-24-6	23.6		0.0687	0.554	1
06969	Tin	7440-31-5	2.51	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,080		0.421	1.11	1
10146	Zirconium	7440-67-7	1.45	J	0.931	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.210	J	0.0665	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.45		0.0665	0.443	2
06126	Barium	7440-39-3	136		0.120	0.443	2
06127	Beryllium	7440-41-7	0.735		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.743		0.0399	0.111	2
06131	Chromium	7440-47-3	30.3		0.133	0.443	2
06132	Cobalt	7440-48-4	7.30		0.0222	0.111	2
06133	Copper	7440-50-8	16.0		0.0731	0.443	2
06135	Lead	7439-92-1	29.7		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.865		0.0554	0.111	2
06139	Nickel	7440-02-0	15.7		0.111	0.443	2
06141	Selenium	7782-49-2	0.120	J	0.0443	0.443	2
06142	Silver	7440-22-4	0.141		0.0133	0.111	2
06145	Thallium	7440-28-0	0.387		0.0332	0.111	2
06148	Vanadium	7440-62-2	52.1		0.0244	0.111	2
06149	Zinc	7440-66-6	117		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0741	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-017-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167470
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DE042-03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	426	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.92	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	11.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 14:41	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 18:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 00:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 19:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 00:02	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-017-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167470
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DE042-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:09	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 15:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 15:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 15:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 09:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/13/2011 00:01	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 16:02	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-019-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167471
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DE042-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	220	U	220	670	1
04688	Benzidine	92-87-5	1,600	U	1,600	4,500	1
04688	Benzo(a)anthracene	56-55-3	24	J	22	220	1
04688	Benzoic acid	65-85-0	220	U	220	670	1
04688	Benzyl alcohol	100-51-6	220	U	220	670	1
04688	4-Bromophenyl-phenylether	101-55-3	22	U	22	220	1
04688	Butylbenzylphthalate	85-68-7	42	J	22	220	1
04688	Di-n-butylphthalate	84-74-2	26	J	22	220	1
04688	Carbazole	86-74-8	22	U	22	220	1
04688	4-Chloro-3-methylphenol	59-50-7	45	U	45	220	1
04688	4-Chloroaniline	106-47-8	90	U	90	220	1
04688	bis(2-Chloroethoxy)methane	111-91-1	22	U	22	220	1
04688	bis(2-Chloroethyl)ether	111-44-4	22	U	22	220	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	22	U	22	220	1
04688	2-Chloronaphthalene	91-58-7	22	U	22	220	1
04688	2-Chlorophenol	95-57-8	22	U	22	220	1
04688	4-Chlorophenyl-phenylether	7005-72-3	45	U	45	220	1
04688	Chrysene	218-01-9	37	J	22	220	1
04688	Dibenzofuran	132-64-9	22	U	22	220	1
04688	1,2-Dichlorobenzene	95-50-1	22	U	22	220	1
04688	1,3-Dichlorobenzene	541-73-1	22	U	22	220	1
04688	1,4-Dichlorobenzene	106-46-7	22	U	22	220	1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	450	1
04688	2,4-Dichlorophenol	120-83-2	22	U	22	220	1
04688	Diethylphthalate	84-66-2	22	U	22	220	1
04688	2,4-Dimethylphenol	105-67-9	45	U	45	220	1
04688	3,5-Dimethylphenol	108-68-9	45	U	45	220	1
04688	Dimethylphthalate	131-11-3	22	U	22	220	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	220	U	220	670	1
04688	2,4-Dinitrophenol	51-28-5	900	U	900	2,700	1
04688	2,4-Dinitrotoluene	121-14-2	45	U	45	220	1
04688	2,6-Dinitrotoluene	606-20-2	22	U	22	220	1
04688	1,2-Diphenylhydrazine	122-66-7	22	U	22	220	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	120	J	22	450	1
04688	Fluoranthene	206-44-0	71	J	22	220	1
04688	Hexachlorobenzene	118-74-1	22	U	22	220	1
04688	Hexachlorobutadiene	87-68-3	90	U	90	220	1
04688	Hexachlorocyclopentadiene	77-47-4	220	U	220	670	1
04688	Hexachloroethane	67-72-1	22	U	22	220	1
04688	Isophorone	78-59-1	22	U	22	220	1
04688	2-Methylphenol	95-48-7	45	U	45	220	1
04688	4-Methylphenol	106-44-5	45	U	45	220	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	22	U	22	220	1
04688	3-Nitroaniline	99-09-2	45	U	45	220	1
04688	4-Nitroaniline	100-01-6	90	U	90	220	1
04688	Nitrobenzene	98-95-3	22	U	22	220	1
04688	2-Nitrophenol	88-75-5	22	U	22	220	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-019-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167471
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DE042-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	220	U	220	670	1
04688	N-Nitroso-di-n-propylamine	621-64-7	22	U	22	220	1
04688	N-Nitrosodiphenylamine	86-30-6	22	U	22	220	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	22	U	22	220	1
04688	Pentachlorophenol	87-86-5	220	U	220	670	1
04688	Phenol	108-95-2	22	U	22	220	1
04688	Pyrene	129-00-0	47	J	22	220	1
04688	1,2,4-Trichlorobenzene	120-82-1	22	U	22	220	1
04688	2,4,5-Trichlorophenol	95-95-4	45	U	45	220	1
04688	2,4,6-Trichlorophenol	88-06-2	45	U	45	220	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.5	U	4.5	11	5
10138	Acenaphthylene	208-96-8	2.2	U	2.2	11	5
10138	Anthracene	120-12-7	6.0	J	2.2	11	5
10138	Benzo(a)pyrene	50-32-8	16		4.5	11	5
10138	Benzo(b)fluoranthene	205-99-2	35		4.5	11	5
10138	Benzo(g,h,i)perylene	191-24-2	12		4.5	11	5
10138	Benzo(k)fluoranthene	207-08-9	9.7	J	4.5	11	5
10138	Dibenz(a,h)anthracene	53-70-3	4.5	U	4.5	11	5
10138	Fluorene	86-73-7	4.5	U	4.5	11	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	8.6	J	4.5	11	5
10138	1-Methylnaphthalene	90-12-0	4.5	U	4.5	11	5
10138	2-Methylnaphthalene	91-57-6	4.5	U	4.5	11	5
10138	Naphthalene	91-20-3	9.0	J	4.5	11	5
10138	N-Nitrosodimethylamine	62-75-9	4.5	U	4.5	11	5
10138	Phenanthrene	85-01-8	22		4.5	11	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.6	U	1.6	4.9	1
10401	Dalapon	75-99-0	5.9	U	5.9	12	1
10401	2,4-DB	94-82-6	0.84	U	0.84	2.3	1
10401	Dicamba	1918-00-9	0.73	J	0.54	1.6	1
10401	Dinoseb	88-85-7	1.1	U	1.1	3.2	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	U	1.1	2.3	1
10401	MCPA	94-74-6	700		100	340	1
10401	MCPP (Mecoprop)	93-65-2	670	U	670	670	1
10401	2,4,5-T	93-76-5	0.62	U	0.62	0.62	1
10401	2,4,5-TP	93-72-1	0.53		0.10	0.23	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						

*=This limit was used in the evaluation of the final result

Sample Description: **SED-019-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167471
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DE042-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.44	U	0.44	1.1	5
01363	Alpha BHC	319-84-6	0.23	U	0.23	1.1	5
01363	Beta BHC	319-85-7	0.40	U	0.40	1.1	5
01363	Gamma BHC - Lindane	58-89-9	0.23	U	0.23	1.1	5
01363	Chlordane	57-74-9	22	U	22	23	5
01363	p,p-DDD	72-54-8	19	U	19	19	20
01363	p,p-DDE	72-55-9	2.1	U	2.1	2.3	5
01363	p,p-DDT	50-29-3	32	U	32	32	20
01363	Delta BHC	319-86-8	0.29	J	0.24	1.1	5
01363	Dieldrin	60-57-1	1.6	U	1.6	2.3	5
01363	Endosulfan I	959-98-8	0.30	U	0.30	1.1	5
01363	Endosulfan II	33213-65-9	1.6	U	1.6	2.3	5
01363	Endosulfan Sulfate	1031-07-8	0.44	U	0.44	2.3	5
01363	Endrin	72-20-8	0.44	U	0.44	2.3	5
01363	Endrin Aldehyde	7421-93-4	5.9	U	5.9	5.9	5
01363	Endrin Ketone	53494-70-5	0.44	U	0.44	2.3	5
01363	Heptachlor	76-44-8	0.40	U	0.40	1.1	5
01363	Heptachlor Epoxide	1024-57-3	0.75	U	0.75	1.1	5
01363	Methoxychlor	72-43-5	2.3	U	2.3	11	5
01363	Mirex	2385-85-5	1.8	U	1.8	2.3	5
01363	Toxaphene	8001-35-2	15	U	15	44	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	13	U	13	44	10
10225	Aroclor 5442	12642-23-8	13	U	13	44	10
10225	Aroclor 5460	11126-42-4	130		13	44	10
10225	PCB-1016	12674-11-2	4.4	U	4.4	23	10
10225	PCB-1221	11104-28-2	6.7	U	6.7	23	10
10225	PCB-1232	11141-16-5	7.0	U	7.0	23	10
10225	PCB-1242	53469-21-9	6.7	U	6.7	23	10
10225	PCB-1248	12672-29-6	4.4	U	4.4	23	10
10225	PCB-1254	11097-69-1	99		4.4	23	10
10225	PCB-1260	11096-82-5	180		4.4	23	10
10225	PCB-1262	37324-23-5	4.4	U	4.4	23	10
10225	PCB-1268	11100-14-4	4.4	U	4.4	23	10
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		6.52	25.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-019-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167471
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DE042-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	6.31	J	1.15	6.48	1
01650	Calcium	7440-70-2	3,050		7.94	25.9	1
01654	Iron	7439-89-6	25,200		6.10	25.9	1
01656	Lithium	7439-93-2	26.8		0.29	2.6	1
01657	Magnesium	7439-95-4	4,990		3.29	13.0	1
06958	Manganese	7439-96-5	269		0.101	0.648	1
10145	Phosphorus	7723-14-0	707		0.726	13.0	1
01662	Potassium	7440-09-7	3,540		23.3	64.8	1
01667	Sodium	7440-23-5	136		48.3	130	1
07968	Strontium	7440-24-6	26.2		0.0803	0.648	1
06969	Tin	7440-31-5	3.05	J	1.30	13.0	1
06970	Titanium	7440-32-6	1,270		0.492	1.30	1
10146	Zirconium	7440-67-7	1.15	J	1.09	6.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.931		0.0785	0.262	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.1		0.0785	0.523	2
06126	Barium	7440-39-3	183		0.141	0.523	2
06127	Beryllium	7440-41-7	1.07		0.0209	0.131	2
06128	Cadmium	7440-43-9	2.23		0.0471	0.131	2
06131	Chromium	7440-47-3	40.2		0.157	0.523	2
06132	Cobalt	7440-48-4	11.2		0.0262	0.131	2
06133	Copper	7440-50-8	50.5		0.0864	0.523	2
06135	Lead	7439-92-1	54.2		0.0136	0.262	2
06138	Molybdenum	7439-98-7	3.69		0.0654	0.131	2
06139	Nickel	7440-02-0	23.5		0.131	0.523	2
06141	Selenium	7782-49-2	0.202	J	0.0523	0.523	2
06142	Silver	7440-22-4	0.267		0.0157	0.131	2
06145	Thallium	7440-28-0	0.505		0.0393	0.131	2
06148	Vanadium	7440-62-2	68.2		0.0288	0.131	2
06149	Zinc	7440-66-6	308		1.83	9.81	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.574		0.0036	0.127	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		1.1	1.3	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	12.1	U	12.1	40.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	U	0.27	1.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-019-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167471
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DE042-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	557	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	4.76	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	25.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 15:10	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 19:14	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 01:27	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 19:21	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 19:36	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 00:20	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-019-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167471
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DE042-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:13	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 15:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 15:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 15:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	01/04/2011 13:52	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 09:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/13/2011 00:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11013243202A	01/18/2011 16:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-020-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167472
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD020 SDG#: DE042-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-020-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167472
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD020 SDG#: DE042-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	10	U	10	10	1
10401	Dicamba	1918-00-9	0.57	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	310		83	270	1
10401	MCPP (Mecoprop)	93-65-2	540	U	540	540	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: **SED-020-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167472
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD020 SDG#: DE042-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	attained.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	3.0	U	3.0	3.7	1
01363	p,p-DDD	72-54-8	0.17	U	0.17	0.37	1
01363	p,p-DDE	72-55-9	0.41	U	0.41	0.41	1
01363	p,p-DDT	50-29-3	1.0	U	1.0	1.0	1
01363	Delta BHC	319-86-8	0.075	J	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.093	U	0.093	0.18	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.074	U	0.074	0.18	1
01363	Methoxychlor	72-43-5	0.58	U	0.58	1.8	1
01363	Mirex	2385-85-5	0.33	U	0.33	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2	2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2	2
10225	Aroclor 5460	11126-42-4	6.6	J	2.2	7.2	2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.7	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.7	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.7	2
10225	PCB-1248	12672-29-6	0.72	U	0.72	3.7	2
10225	PCB-1254	11097-69-1	2.5	J	0.72	3.7	2
10225	PCB-1260	11096-82-5	10		0.72	3.7	2
10225	PCB-1262	37324-23-5	0.72	U	0.72	3.7	2
10225	PCB-1268	11100-14-4	0.72	U	0.72	3.7	2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

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SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167472
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SD020 SDG#: DE042-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,110		5.36	21.3	1
07914	Boron	7440-42-8	3.88	J	0.948	5.33	1
01650	Calcium	7440-70-2	2,190		6.53	21.3	1
01654	Iron	7439-89-6	14,100		5.02	21.3	1
01656	Lithium	7439-93-2	22.5		0.23	2.1	1
01657	Magnesium	7439-95-4	3,380		2.71	10.7	1
06958	Manganese	7439-96-5	206		0.0831	0.533	1
10145	Phosphorus	7723-14-0	310		0.597	10.7	1
01662	Potassium	7440-09-7	2,480		19.2	53.3	1
01667	Sodium	7440-23-5	60.8	J	39.7	107	1
07968	Strontium	7440-24-6	12.8		0.0661	0.533	1
06969	Tin	7440-31-5	2.28	J	1.07	10.7	1
06970	Titanium	7440-32-6	868		0.405	1.07	1
10146	Zirconium	7440-67-7	0.895	U	0.895	5.33	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.191	J	0.0627	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.71		0.0627	0.418	2
06126	Barium	7440-39-3	95.9		0.113	0.418	2
06127	Beryllium	7440-41-7	0.548		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.311		0.0376	0.105	2
06131	Chromium	7440-47-3	19.0		0.125	0.418	2
06132	Cobalt	7440-48-4	5.25		0.0209	0.105	2
06133	Copper	7440-50-8	8.77		0.0690	0.418	2
06135	Lead	7439-92-1	12.2		0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.497		0.0523	0.105	2
06139	Nickel	7440-02-0	11.1		0.105	0.418	2
06141	Selenium	7782-49-2	0.0829	J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0561	J	0.0125	0.105	2
06145	Thallium	7440-28-0	0.284		0.0314	0.105	2
06148	Vanadium	7440-62-2	38.2		0.0230	0.105	2
06149	Zinc	7440-66-6	96.5		0.585	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167472
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SD020 SDG#: DE042-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	477	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.84	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 15:40	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 19:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 01:54	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 15:54	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 19:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 00:39	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-020-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167472
LLI Group # 1225974
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SD020 SDG#: DE042-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:17	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 09:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/13/2011 00:47	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11013243202A	01/18/2011 16:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SED-020-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167472
LLI Group # 1225974
Account # 13013

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SD020 SDG#: DE042-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-147-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167473
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL147 SDG#: DE042-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	44	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-147-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167473
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

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14420 Albemarle Point Place
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Chantilly VA 20151

SL147 SDG#: DE042-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	15		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	15		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	18		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	6.2		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	4.8		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	26		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.9	J	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	10		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	2.8		0.76	1.9	1
10138	Pyrene	129-00-0	12		0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	0.71	U	0.71	1.9	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	1.9	1
10401	MCPA	94-74-6	260	J	87	290	1
10401	MCPP (Mecoprop)	93-65-2	1,800	U	1,800	1,800	1
10401	2,4,5-T	93-76-5	0.21		0.094	0.19	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-147-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167473
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:55 by PH

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL147 SDG#: DE042-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.088	U	0.088	0.19	1
01363	Chlordane	57-74-9	7.2	U	7.2	7.2	1
01363	p,p-DDD	72-54-8	0.97	U	0.97	0.97	1
01363	p,p-DDE	72-55-9	0.84	U	0.84	0.84	1
01363	p,p-DDT	50-29-3	7.4	U	7.4	7.4	5
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	1.4	U	1.4	1.4	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	2.6	U	2.6	2.6	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	1.4	U	1.4	1.4	5
01363	Methoxychlor	72-43-5	0.48	U	0.48	1.9	1
01363	Mirex	2385-85-5	0.64	U	0.64	0.64	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19	5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19	5
10225	Aroclor 5460	11126-42-4	62		5.7	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7	5
10225	PCB-1221	11104-28-2	2.9	U	2.9	9.7	5
10225	PCB-1232	11141-16-5	3.0	U	3.0	9.7	5
10225	PCB-1242	53469-21-9	2.9	U	2.9	9.7	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7	5
10225	PCB-1254	11097-69-1	44		1.9	9.7	5
10225	PCB-1260	11096-82-5	89		1.9	9.7	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7	5
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.76	22.9	1
07914	Boron	7440-42-8	4.18	J	1.02	5.72	1
01650	Calcium	7440-70-2	4,340		7.01	22.9	1
01654	Iron	7439-89-6	19,000		5.39	22.9	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167473
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SL147 SDG#: DE042-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	21.8		0.25	2.3	1
01657	Magnesium	7439-95-4	4,210		2.91	11.4	1
06958	Manganese	7439-96-5	211		0.0892	0.572	1
10145	Phosphorus	7723-14-0	420		0.641	11.4	1
01662	Potassium	7440-09-7	2,620		20.6	57.2	1
01667	Sodium	7440-23-5	123		42.7	114	1
07968	Strontium	7440-24-6	17.4		0.0709	0.572	1
06969	Tin	7440-31-5	2.28	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,120		0.435	1.14	1
10146	Zirconium	7440-67-7	1.47	J	0.961	5.72	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.319		0.0686	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.55		0.0686	0.458	2
06126	Barium	7440-39-3	176		0.124	0.458	2
06127	Beryllium	7440-41-7	0.926		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.806		0.0412	0.114	2
06131	Chromium	7440-47-3	36.7		0.137	0.458	2
06132	Cobalt	7440-48-4	10.9		0.0229	0.114	2
06133	Copper	7440-50-8	20.3		0.0755	0.458	2
06135	Lead	7439-92-1	40.9		0.0119	0.229	2
06138	Molybdenum	7439-98-7	1.78		0.0572	0.114	2
06139	Nickel	7440-02-0	23.9		0.114	0.458	2
06141	Selenium	7782-49-2	0.143	J	0.0458	0.458	2
06142	Silver	7440-22-4	0.228		0.0137	0.114	2
06145	Thallium	7440-28-0	0.395		0.0343	0.114	2
06148	Vanadium	7440-62-2	63.6		0.0252	0.114	2
06149	Zinc	7440-66-6	161		0.641	3.43	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.148		0.0031	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	456		10.0	10.0	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

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SL147 SDG#: DE042-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.84	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 16:09	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 20:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 02:22	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 20:05	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 20:20	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 00:57	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1

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Sample Description: SL-147-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167473
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SL147 SDG#: DE042-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:21	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	01/04/2011 13:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 10:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/13/2011 01:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 16:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-169-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167474
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE042-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(g,h,i)perylene	191-24-2	72	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	380	1
04688	Fluoranthene	206-44-0	21	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	82	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-169-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167474
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE042-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.90	J	0.38	1.9	1
10138	Anthracene	120-12-7	2.0		0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	10		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	23		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	49		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	13		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	20		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	5.0		0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	5.3		0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	6.2		0.76	1.9	1
10138	Naphthalene	91-20-3	4.4		0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	14		0.76	1.9	1
10138	Pyrene	129-00-0	16		0.76	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	15	U	15	15	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	U	1.6	1.9	1
10401	MCPA	94-74-6	510		86	280	1
10401	MCPP (Mecoprop)	93-65-2	520	U	520	520	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result

Sample Description: SL-169-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167474
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE042-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.057	J	0.039	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	3.5	U	3.5	3.9	1
01363	p,p-DDD	72-54-8	0.34	U	0.34	0.39	1
01363	p,p-DDE	72-55-9	0.82	U	0.82	0.82	1
01363	p,p-DDT	50-29-3	0.82	U	0.82	0.82	1
01363	Delta BHC	319-86-8	0.056	J	0.041	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.095	U	0.095	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.075	U	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.32	U	0.32	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.25	U	0.25	0.25	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.25	U	0.25	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5	2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5	2
10225	Aroclor 5460	11126-42-4	7.0	J	2.3	7.5	2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.9	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.9	2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.9	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.9	2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.9	2
10225	PCB-1254	11097-69-1	16		0.75	3.9	2
10225	PCB-1260	11096-82-5	8.0		0.75	3.9	2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.9	2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.9	2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.54	22.0	1
07914	Boron	7440-42-8	6.43		0.980	5.50	1
01650	Calcium	7440-70-2	4,530		6.75	22.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-169-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167474
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE042-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,200		5.18	22.0	1
01656	Lithium	7439-93-2	22.7		0.24	2.2	1
01657	Magnesium	7439-95-4	4,380		2.80	11.0	1
06958	Manganese	7439-96-5	325		0.0859	0.550	1
10145	Phosphorus	7723-14-0	444		0.616	11.0	1
01662	Potassium	7440-09-7	3,530		19.8	55.0	1
01667	Sodium	7440-23-5	105	J	41.1	110	1
07968	Strontium	7440-24-6	23.5		0.0682	0.550	1
06969	Tin	7440-31-5	2.79	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,210		0.418	1.10	1
10146	Zirconium	7440-67-7	1.96	J	0.925	5.50	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.235		0.0667	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.7		0.0667	0.445	2
06126	Barium	7440-39-3	161		0.120	0.445	2
06127	Beryllium	7440-41-7	0.922		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.562		0.0400	0.111	2
06131	Chromium	7440-47-3	32.2		0.133	0.445	2
06132	Cobalt	7440-48-4	8.98		0.0222	0.111	2
06133	Copper	7440-50-8	16.4		0.0734	0.445	2
06135	Lead	7439-92-1	21.2		0.0116	0.222	2
06138	Molybdenum	7439-98-7	1.12		0.0556	0.111	2
06139	Nickel	7440-02-0	19.9		0.111	0.445	2
06141	Selenium	7782-49-2	0.132	J	0.0445	0.445	2
06142	Silver	7440-22-4	0.249		0.0133	0.111	2
06145	Thallium	7440-28-0	0.446		0.0333	0.111	2
06148	Vanadium	7440-62-2	57.4		0.0245	0.111	2
06149	Zinc	7440-66-6	127		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0119	J	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.9		0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	451		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-169-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167474
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SL169 SDG#: DE042-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 16:39	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 20:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 02:49	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 20:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 01:16	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-169-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167474
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE042-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:25	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 10:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/13/2011 01:33	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 17:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-172-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167475
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE042-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167475
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE042-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	3.2		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.4	19	1
10138	Fluoranthene	206-44-0	6.0		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.86	J	0.71	1.8	1
10138	Naphthalene	91-20-3	0.94	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	3.8		0.71	1.8	1
10138	Pyrene	129-00-0	4.2		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.64	U	0.64	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	280		81	260	1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.31	U	0.31	0.31	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-172-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167475
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE042-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.090	J	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	J	0.036	0.18	1
01363	Chlordane	57-74-9	2.9	U	2.9	3.6	1
01363	p,p-DDD	72-54-8	0.15	U	0.15	0.36	1
01363	p,p-DDE	72-55-9	0.26	U	0.26	0.36	1
01363	p,p-DDT	50-29-3	0.32	U	0.32	0.36	1
01363	Delta BHC	319-86-8	0.15	J	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.073	U	0.073	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.35	U	0.35	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.052	U	0.052	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	2.0		0.35	1.8	1
10225	PCB-1260	11096-82-5	0.92	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.33	21.2	1
07914	Boron	7440-42-8	4.12	J	0.943	5.30	1
01650	Calcium	7440-70-2	2,300		6.49	21.2	1
01654	Iron	7439-89-6	18,900		4.99	21.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167475
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE042-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	18.7		0.23	2.1	1
01657	Magnesium	7439-95-4	3,600		2.69	10.6	1
06958	Manganese	7439-96-5	271		0.0826	0.530	1
10145	Phosphorus	7723-14-0	309		0.593	10.6	1
01662	Potassium	7440-09-7	3,250		19.1	53.0	1
01667	Sodium	7440-23-5	72.7	J	39.5	106	1
07968	Strontium	7440-24-6	21.5		0.0657	0.530	1
06969	Tin	7440-31-5	2.29	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,180		0.403	1.06	1
10146	Zirconium	7440-67-7	1.11	J	0.890	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.213		0.0636	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.2		0.0636	0.424	2
06126	Barium	7440-39-3	158		0.114	0.424	2
06127	Beryllium	7440-41-7	0.925		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.326		0.0381	0.106	2
06131	Chromium	7440-47-3	32.1		0.127	0.424	2
06132	Cobalt	7440-48-4	8.47		0.0212	0.106	2
06133	Copper	7440-50-8	13.8		0.0699	0.424	2
06135	Lead	7439-92-1	18.6		0.0110	0.212	2
06138	Molybdenum	7439-98-7	1.13		0.0530	0.106	2
06139	Nickel	7440-02-0	19.3		0.106	0.424	2
06141	Selenium	7782-49-2	0.119	J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0762	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.442		0.0318	0.106	2
06148	Vanadium	7440-62-2	55.2		0.0233	0.106	2
06149	Zinc	7440-66-6	84.3		0.593	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	J	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	482		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167475
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE042-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.02	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 17:08	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 21:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 03:17	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 20:49	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 01:34	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167475
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE042-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:29	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 10:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/13/2011 01:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 17:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-173-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167476
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL173 SDG#: DE042-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	49	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167476
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL173 SDG#: DE042-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.6	J	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.94	J	0.36	1.8	1
10138	Anthracene	120-12-7	1.4	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	4.1		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	7.3		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	20		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	11		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	5.5		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	12		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	J	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	31		0.71	1.8	1
10138	Fluorene	86-73-7	1.3	J	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	2.4		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	3.1		0.71	1.8	1
10138	Naphthalene	91-20-3	2.4		0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	22		0.71	1.8	1
10138	Pyrene	129-00-0	19		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	22	U	22	22	1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	7.0		0.85	1.8	1
10401	MCPA	94-74-6	220	U	220	270	1
10401	MCPP (Mecoprop)	93-65-2	180	U	180	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-173-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167476
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL173 SDG#: DE042-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.16	U	0.16	0.36	1
01363	p,p-DDE	72-55-9	0.45	U	0.45	0.45	1
01363	p,p-DDT	50-29-3	0.47	U	0.47	0.47	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.12	U	0.12	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.077	U	0.077	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	3.8		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	3.7		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.21	20.7	1
07914	Boron	7440-42-8	3.94	J	0.921	5.18	1
01650	Calcium	7440-70-2	2,350		6.34	20.7	1
01654	Iron	7439-89-6	18,400		4.88	20.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167476
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL173 SDG#: DE042-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	18.9		0.23	2.1	1
01657	Magnesium	7439-95-4	3,560		2.63	10.4	1
06958	Manganese	7439-96-5	307		0.0807	0.518	1
10145	Phosphorus	7723-14-0	290		0.580	10.4	1
01662	Potassium	7440-09-7	3,340		18.6	51.8	1
01667	Sodium	7440-23-5	79.3	J	38.6	104	1
07968	Strontium	7440-24-6	20.8		0.0642	0.518	1
06969	Tin	7440-31-5	2.36	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,140		0.393	1.04	1
10146	Zirconium	7440-67-7	1.53	J	0.869	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.216		0.0615	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.2		0.0615	0.410	2
06126	Barium	7440-39-3	155		0.111	0.410	2
06127	Beryllium	7440-41-7	0.893		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.345		0.0369	0.103	2
06131	Chromium	7440-47-3	30.0		0.123	0.410	2
06132	Cobalt	7440-48-4	8.40		0.0205	0.103	2
06133	Copper	7440-50-8	13.6		0.0677	0.410	2
06135	Lead	7439-92-1	16.3		0.0107	0.205	2
06138	Molybdenum	7439-98-7	1.16		0.0513	0.103	2
06139	Nickel	7440-02-0	18.7		0.103	0.410	2
06141	Selenium	7782-49-2	0.118	J	0.0410	0.410	2
06142	Silver	7440-22-4	0.0930	J	0.0123	0.103	2
06145	Thallium	7440-28-0	0.448		0.0308	0.103	2
06148	Vanadium	7440-62-2	53.7		0.0226	0.103	2
06149	Zinc	7440-66-6	99.2		0.574	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0053	J	0.0028	0.0986	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	476		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167476
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL173 SDG#: DE042-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.67	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 17:37	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 21:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 03:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 21:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 01:53	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-173-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167476
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL173 SDG#: DE042-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:33	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 11:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/13/2011 02:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 17:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167477
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE042-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167477
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE042-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.3		0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	14		0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	65		0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	49		0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	87		0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	17		0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	35		0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	73		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	6.0		0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	180		0.70	1.8	1
10138	Fluorene	86-73-7	5.7		0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	18		0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.95	J	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	1.0	J	0.70	1.8	1
10138	Naphthalene	91-20-3	1.4	J	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	100		0.70	1.8	1
10138	Pyrene	129-00-0	130		0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.55	U	0.55	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.4	J	0.84	1.8	1
10401	MCPA	94-74-6	290	U	290	290	1
10401	MCPP (Mecoprop)	93-65-2	430	U	430	430	1
10401	2,4,5-T	93-76-5	0.30	U	0.30	0.30	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167477
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE042-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.35	U	0.35	0.87	5
01363	Alpha BHC	319-84-6	0.18	U	0.18	0.87	5
01363	Beta BHC	319-85-7	0.32	U	0.32	0.87	5
01363	Gamma BHC - Lindane	58-89-9	0.18	U	0.18	0.87	5
01363	Chlordane	57-74-9	4.2	U	4.2	18	5
01363	p,p-DDD	72-54-8	3.5	U	3.5	3.5	5
01363	p,p-DDE	72-55-9	6.9	U	6.9	36	100
01363	p,p-DDT	50-29-3	0.35	U	0.35	1.8	5
01363	Delta BHC	319-86-8	0.19	U	0.19	0.87	5
01363	Dieldrin	60-57-1	5.7	U	5.7	5.7	5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.87	5
01363	Endosulfan II	33213-65-9	8.3	U	8.3	8.3	5
01363	Endosulfan Sulfate	1031-07-8	0.35	U	0.35	1.8	5
01363	Endrin	72-20-8	0.35	U	0.35	1.8	5
01363	Endrin Aldehyde	7421-93-4	6.8	U	6.8	6.8	5
01363	Endrin Ketone	53494-70-5	0.35	U	0.35	1.8	5
01363	Heptachlor	76-44-8	0.46	J	0.32	0.87	5
01363	Heptachlor Epoxide	1024-57-3	7.6	U	7.6	17	100
01363	Methoxychlor	72-43-5	24	U	24	24	5
01363	Mirex	2385-85-5	8.1	U	8.1	8.1	5
01363	Toxaphene	8001-35-2	12	U	12	35	5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	260	U	260	870	250
10225	Aroclor 5442	12642-23-8	260	U	260	870	250
10225	Aroclor 5460	11126-42-4	260	U	260	870	250
10225	PCB-1016	12674-11-2	87	U	87	450	250
10225	PCB-1221	11104-28-2	130	U	130	450	250
10225	PCB-1232	11141-16-5	140	U	140	450	250
10225	PCB-1242	53469-21-9	130	U	130	450	250
10225	PCB-1248	12672-29-6	87	U	87	450	250
10225	PCB-1254	11097-69-1	2,900		87	450	250
10225	PCB-1260	11096-82-5	87	U	87	450	250
10225	PCB-1262	37324-23-5	87	U	87	450	250
10225	PCB-1268	11100-14-4	87	U	87	450	250

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		5.04	20.0	1
07914	Boron	7440-42-8	3.62	J	0.891	5.01	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167477
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE042-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	7,210		6.14	20.0	1
01654	Iron	7439-89-6	19,600		4.72	20.0	1
01656	Lithium	7439-93-2	13.7		0.22	2.0	1
01657	Magnesium	7439-95-4	3,710		2.54	10.0	1
06958	Manganese	7439-96-5	294		0.0781	0.501	1
10145	Phosphorus	7723-14-0	522		0.561	10.0	1
01662	Potassium	7440-09-7	3,470		18.0	50.1	1
01667	Sodium	7440-23-5	114		37.4	100	1
07968	Strontium	7440-24-6	20.3		0.0621	0.501	1
06969	Tin	7440-31-5	2.12	J	1.00	10.0	1
06970	Titanium	7440-32-6	1,200		0.381	1.00	1
10146	Zirconium	7440-67-7	1.27	J	0.841	5.01	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.192	J	0.0631	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.93		0.0631	0.421	2
06126	Barium	7440-39-3	169		0.114	0.421	2
06127	Beryllium	7440-41-7	0.495		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.506		0.0379	0.105	2
06131	Chromium	7440-47-3	20.5		0.126	0.421	2
06132	Cobalt	7440-48-4	7.07		0.0210	0.105	2
06133	Copper	7440-50-8	13.2		0.0694	0.421	2
06135	Lead	7439-92-1	37.6		0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.811		0.0526	0.105	2
06139	Nickel	7440-02-0	12.5		0.105	0.421	2
06141	Selenium	7782-49-2	0.0667	J	0.0421	0.421	2
06142	Silver	7440-22-4	0.123		0.0126	0.105	2
06145	Thallium	7440-28-0	0.314		0.0315	0.105	2
06148	Vanadium	7440-62-2	53.2		0.0231	0.105	2
06149	Zinc	7440-66-6	110		0.589	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0109	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.90	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167477
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE042-10

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	405	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.84	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 18:07	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 22:30	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 04:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 21:34	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/26/2011 14:58	Jamie L Brillhart	100
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 02:11	Lindsey K Lafferty	250
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-176-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167477
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE042-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:37	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205A	01/12/2011 08:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201A	01/13/2011 03:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 18:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205A	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201A	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101A	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401A	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-178-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167478
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL178 SDG#: DE042-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	640	1
04688	Benzidine	92-87-5	1,500	U	1,500	4,300	1
04688	Benzoic acid	65-85-0	210	U	210	640	1
04688	Benzyl alcohol	100-51-6	210	U	210	640	1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210	1
04688	Carbazole	86-74-8	21	U	21	210	1
04688	4-Chloro-3-methylphenol	59-50-7	43	U	43	210	1
04688	4-Chloroaniline	106-47-8	86	U	86	210	1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210	1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210	1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210	1
04688	2-Chlorophenol	95-57-8	21	U	21	210	1
04688	4-Chlorophenyl-phenylether	7005-72-3	43	U	43	210	1
04688	Dibenzofuran	132-64-9	21	U	21	210	1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210	1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210	1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210	1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	430	1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210	1
04688	2,4-Dimethylphenol	105-67-9	43	U	43	210	1
04688	3,5-Dimethylphenol	108-68-9	43	U	43	210	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	640	1
04688	2,4-Dinitrophenol	51-28-5	860	U	860	2,600	1
04688	2,4-Dinitrotoluene	121-14-2	43	U	43	210	1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210	1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	21	430	1
04688	Hexachlorobenzene	118-74-1	21	U	21	210	1
04688	Hexachlorobutadiene	87-68-3	86	U	86	210	1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	640	1
04688	Hexachloroethane	67-72-1	21	U	21	210	1
04688	Isophorone	78-59-1	21	U	21	210	1
04688	2-Methylphenol	95-48-7	43	U	43	210	1
04688	4-Methylphenol	106-44-5	43	U	43	210	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	21	U	21	210	1
04688	3-Nitroaniline	99-09-2	43	U	43	210	1
04688	4-Nitroaniline	100-01-6	86	U	86	210	1
04688	Nitrobenzene	98-95-3	21	U	21	210	1
04688	2-Nitrophenol	88-75-5	21	U	21	210	1
04688	4-Nitrophenol	100-02-7	210	U	210	640	1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210	1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	210	U	210	640	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-178-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167478
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL178 SDG#: DE042-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	21	U	21	210	1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210	1
04688	2,4,5-Trichlorophenol	95-95-4	43	U	43	210	1
04688	2,4,6-Trichlorophenol	88-06-2	43	U	43	210	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.86	U	0.86	2.1	1
10138	Acenaphthylene	208-96-8	0.43	U	0.43	2.1	1
10138	Anthracene	120-12-7	0.87	J	0.43	2.1	1
10138	Benzo(a)anthracene	56-55-3	6.8		0.86	2.1	1
10138	Benzo(a)pyrene	50-32-8	7.9		0.86	2.1	1
10138	Benzo(b)fluoranthene	205-99-2	15		0.86	2.1	1
10138	Benzo(g,h,i)perylene	191-24-2	3.5		0.86	2.1	1
10138	Benzo(k)fluoranthene	207-08-9	5.5		0.86	2.1	1
10138	Butylbenzylphthalate	85-68-7	8.8	J	7.7	23	1
10138	Di-n-butylphthalate	84-74-2	7.7	U	7.7	23	1
10138	Chrysene	218-01-9	14		0.43	2.1	1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.86	2.1	1
10138	Diethylphthalate	84-66-2	7.7	U	7.7	23	1
10138	Dimethylphthalate	131-11-3	7.7	U	7.7	23	1
10138	Fluoranthene	206-44-0	14		0.86	2.1	1
10138	Fluorene	86-73-7	0.86	U	0.86	2.1	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.2		0.86	2.1	1
10138	1-Methylnaphthalene	90-12-0	0.86	J	0.86	2.1	1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.86	2.1	1
10138	Naphthalene	91-20-3	1.2	J	0.86	2.1	1
10138	N-Nitrosodimethylamine	62-75-9	0.86	U	0.86	2.1	1
10138	Di-n-octylphthalate	117-84-0	23	J	7.7	23	1
10138	Phenanthrene	85-01-8	5.9		0.86	2.1	1
10138	Pyrene	129-00-0	12		0.86	2.1	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.6	U	2.6	4.6	1
10401	Dalapon	75-99-0	5.6	U	5.6	12	1
10401	2,4-DB	94-82-6	21		0.80	2.2	1
10401	Dicamba	1918-00-9	0.55	J	0.51	1.5	1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.1	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2	1
10401	MCPA	94-74-6	400		98	320	1
10401	MCPP (Mecoprop)	93-65-2	96	U	96	320	1
10401	2,4,5-T	93-76-5	0.74		0.11	0.22	1
10401	2,4,5-TP	93-72-1	0.096	U	0.096	0.22	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: SL-178-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167478
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL178 SDG#: DE042-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.85	U	0.85	2.1	10
01363	Alpha BHC	319-84-6	0.44	U	0.44	2.1	10
01363	Beta BHC	319-85-7	2.1	J	0.77	2.1	10
01363	Gamma BHC - Lindane	58-89-9	0.44	U	0.44	2.1	10
01363	Chlordane	57-74-9	22	U	22	44	10
01363	p,p-DDD	72-54-8	2.2	U	2.2	4.4	10
01363	p,p-DDE	72-55-9	2.8	U	2.8	4.4	10
01363	p,p-DDT	50-29-3	5.1	U	5.1	5.1	10
01363	Delta BHC	319-86-8	0.46	U	0.46	2.1	10
01363	Dieldrin	60-57-1	0.95	U	0.95	4.4	10
01363	Endosulfan I	959-98-8	0.56	U	0.56	2.1	10
01363	Endosulfan II	33213-65-9	2.8	U	2.8	4.4	10
01363	Endosulfan Sulfate	1031-07-8	3.5	U	3.5	4.4	10
01363	Endrin	72-20-8	0.85	U	0.85	4.4	10
01363	Endrin Aldehyde	7421-93-4	3.8	U	3.8	4.4	10
01363	Endrin Ketone	53494-70-5	0.85	U	0.85	4.4	10
01363	Heptachlor	76-44-8	0.77	U	0.77	2.1	10
01363	Heptachlor Epoxide	1024-57-3	1.7	U	1.7	2.1	10
01363	Methoxychlor	72-43-5	4.4	U	4.4	21	10
01363	Mirex	2385-85-5	0.85	U	0.85	4.4	10
01363	Toxaphene	8001-35-2	28	U	28	85	10

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	13	U	13	42	10
10225	Aroclor 5442	12642-23-8	13	U	13	42	10
10225	Aroclor 5460	11126-42-4	54		13	42	10
10225	PCB-1016	12674-11-2	4.2	U	4.2	22	10
10225	PCB-1221	11104-28-2	6.4	U	6.4	22	10
10225	PCB-1232	11141-16-5	6.7	U	6.7	22	10
10225	PCB-1242	53469-21-9	6.4	U	6.4	22	10
10225	PCB-1248	12672-29-6	4.2	U	4.2	22	10
10225	PCB-1254	11097-69-1	51		4.2	22	10
10225	PCB-1260	11096-82-5	61		4.2	22	10
10225	PCB-1262	37324-23-5	4.2	U	4.2	22	10
10225	PCB-1268	11100-14-4	4.2	U	4.2	22	10

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		6.27	24.9	1
07914	Boron	7440-42-8	5.32	J	1.11	6.23	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-178-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167478
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL178 SDG#: DE042-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,530		7.64	24.9	1
01654	Iron	7439-89-6	26,000		5.87	24.9	1
01656	Lithium	7439-93-2	27.2		0.27	2.5	1
01657	Magnesium	7439-95-4	5,300		3.17	12.5	1
06958	Manganese	7439-96-5	395		0.0972	0.623	1
10145	Phosphorus	7723-14-0	500		0.698	12.5	1
01662	Potassium	7440-09-7	3,930		22.4	62.3	1
01667	Sodium	7440-23-5	129		46.5	125	1
07968	Strontium	7440-24-6	28.4		0.0773	0.623	1
06969	Tin	7440-31-5	3.39	J	1.25	12.5	1
06970	Titanium	7440-32-6	1,480		0.474	1.25	1
10146	Zirconium	7440-67-7	1.36	J	1.05	6.23	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.533		0.0763	0.254	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.88		0.0763	0.508	2
06126	Barium	7440-39-3	202		0.137	0.508	2
06127	Beryllium	7440-41-7	1.03		0.0203	0.127	2
06128	Cadmium	7440-43-9	2.39		0.0458	0.127	2
06131	Chromium	7440-47-3	54.6		0.153	0.508	2
06132	Cobalt	7440-48-4	13.1		0.0254	0.127	2
06133	Copper	7440-50-8	32.0		0.0839	0.508	2
06135	Lead	7439-92-1	101		0.0132	0.254	2
06138	Molybdenum	7439-98-7	2.46		0.0635	0.127	2
06139	Nickel	7440-02-0	35.0		0.127	0.508	2
06141	Selenium	7782-49-2	0.183	J	0.0508	0.508	2
06142	Silver	7440-22-4	1.90		0.0153	0.127	2
06145	Thallium	7440-28-0	0.503		0.0381	0.127	2
06148	Vanadium	7440-62-2	69.8		0.0280	0.127	2
06149	Zinc	7440-66-6	474		1.78	9.53	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.197		0.0035	0.124	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		1.0	1.3	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.6	U	11.6	38.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.9		0.26	1.3	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-178-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167478
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL178 SDG#: DE042-11

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	438	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.36	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	22.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 18:36	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 23:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 05:35	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 21:48	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 03:44	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-178-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167478
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL178 SDG#: DE042-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:40	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	01/04/2011 13:57	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 12:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 04:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 18:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-186-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167479
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:56 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE042-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	45	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-186-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167479
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:56 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE042-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.94	J	0.36	1.8	1
10138	Anthracene	120-12-7	2.8		0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	17		0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	13		0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	29		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	5.3		0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	8.4		0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	26		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	J	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	33		0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.4		0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	1.6	J	0.72	1.8	1
10138	Naphthalene	91-20-3	1.8		0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	8.1		0.72	1.8	1
10138	Pyrene	129-00-0	29		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	2.7	U	2.7	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	290	U	290	290	1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.31		0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-186-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167479
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:56 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE042-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.080	J	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	0.31	U	0.31	0.37	1
01363	p,p-DDT	50-29-3	0.48	U	0.48	0.48	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.1	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.1	2
10225	Aroclor 5460	11126-42-4	5.0	J	2.1	7.1	2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.7	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.7	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.7	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.7	2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.7	2
10225	PCB-1254	11097-69-1	3.0	J	0.71	3.7	2
10225	PCB-1260	11096-82-5	1.1	J	0.71	3.7	2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.7	2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.7	2
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		5.30	21.1	1
07914	Boron	7440-42-8	4.32	J	0.937	5.27	1
01650	Calcium	7440-70-2	2,840		6.46	21.1	1
01654	Iron	7439-89-6	21,200		4.96	21.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-186-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167479
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:56 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL186 SDG#: DE042-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	24.6		0.23	2.1	1
01657	Magnesium	7439-95-4	4,250		2.67	10.5	1
06958	Manganese	7439-96-5	311		0.0821	0.527	1
10145	Phosphorus	7723-14-0	273		0.590	10.5	1
01662	Potassium	7440-09-7	2,940		19.0	52.7	1
01667	Sodium	7440-23-5	104	J	39.3	105	1
07968	Strontium	7440-24-6	23.7		0.0653	0.527	1
06969	Tin	7440-31-5	2.43	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,270		0.400	1.05	1
10146	Zirconium	7440-67-7	1.98	J	0.885	5.27	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.222		0.0614	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	16.4		0.0614	0.409	2
06126	Barium	7440-39-3	177		0.110	0.409	2
06127	Beryllium	7440-41-7	0.995		0.0164	0.102	2
06128	Cadmium	7440-43-9	0.283		0.0368	0.102	2
06131	Chromium	7440-47-3	34.6		0.123	0.409	2
06132	Cobalt	7440-48-4	9.10		0.0205	0.102	2
06133	Copper	7440-50-8	14.7		0.0675	0.409	2
06135	Lead	7439-92-1	27.1		0.0106	0.205	2
06138	Molybdenum	7439-98-7	1.08		0.0511	0.102	2
06139	Nickel	7440-02-0	21.2		0.102	0.409	2
06141	Selenium	7782-49-2	0.109	J	0.0409	0.409	2
06142	Silver	7440-22-4	0.119		0.0123	0.102	2
06145	Thallium	7440-28-0	0.426		0.0307	0.102	2
06148	Vanadium	7440-62-2	58.8		0.0225	0.102	2
06149	Zinc	7440-66-6	96.3		0.573	3.07	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0212	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.88	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	458		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-186-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167479
LLI Group # 1225974
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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SL186 SDG#: DE042-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.51	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 19:05	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/07/2011 09:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 06:02	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 23:42	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 04:02	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-186-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167479
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SL186 SDG#: DE042-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:52	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 12:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 05:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 18:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-187-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167480
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:19 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE042-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	81	J	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

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SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167480
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:19 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE042-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	2.1		0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	2.7		0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.52	J	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	910		81	260	1
10401	MCPP (Mecoprop)	93-65-2	590	U	590	590	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.13	U	0.13	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-187-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167480
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:19 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE042-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.095	U	0.095	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.066	U	0.066	0.18	1
01363	Chlordane	57-74-9	3.4	U	3.4	3.6	1
01363	p,p-DDD	72-54-8	0.37		0.26	0.36	1
01363	p,p-DDE	72-55-9	0.43	U	0.43	0.43	1
01363	p,p-DDT	50-29-3	0.54	U	0.54	0.54	1
01363	Delta BHC	319-86-8	0.43		0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.32	U	0.32	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.074	U	0.074	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.34	U	0.34	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	5.6		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	5.2		0.35	1.8	1
10225	PCB-1260	11096-82-5	4.3		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.28	21.0	1
07914	Boron	7440-42-8	3.97	J	0.933	5.24	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167480
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:19 by PH

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Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL187 SDG#: DE042-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,620		6.43	21.0	1
01654	Iron	7439-89-6	17,200		4.94	21.0	1
01656	Lithium	7439-93-2	18.3		0.23	2.1	1
01657	Magnesium	7439-95-4	3,790		2.66	10.5	1
06958	Manganese	7439-96-5	288		0.0818	0.524	1
10145	Phosphorus	7723-14-0	279		0.587	10.5	1
01662	Potassium	7440-09-7	2,560		18.9	52.4	1
01667	Sodium	7440-23-5	110		39.1	105	1
07968	Strontium	7440-24-6	20.6		0.0650	0.524	1
06969	Tin	7440-31-5	2.27	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,120		0.399	1.05	1
10146	Zirconium	7440-67-7	2.18	J	0.881	5.24	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0636	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.93		0.0636	0.424	2
06126	Barium	7440-39-3	148		0.114	0.424	2
06127	Beryllium	7440-41-7	0.866		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.356		0.0381	0.106	2
06131	Chromium	7440-47-3	32.7		0.127	0.424	2
06132	Cobalt	7440-48-4	9.70		0.0212	0.106	2
06133	Copper	7440-50-8	13.7		0.0699	0.424	2
06135	Lead	7439-92-1	19.9		0.0110	0.212	2
06138	Molybdenum	7439-98-7	1.26		0.0530	0.106	2
06139	Nickel	7440-02-0	22.2		0.106	0.424	2
06141	Selenium	7782-49-2	0.117	J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0889	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.408		0.0318	0.106	2
06148	Vanadium	7440-62-2	53.1		0.0233	0.106	2
06149	Zinc	7440-66-6	89.3		0.593	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0130	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167480
LLI Group # 1225974
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Project Name: SSFL Area IV Collocated Soil Sampling

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SL187 SDG#: DE042-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	434	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.78	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 19:34	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/07/2011 00:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 06:30	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/24/2011 23:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 04:21	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167480
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SL187 SDG#: DE042-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 17:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:39	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 12:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 05:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 18:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-189-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167481
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167481
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.85	J	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.96	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.49	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	610	U	610	610	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167481
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7	1
01363	p,p-DDD	72-54-8	0.17	U	0.17	0.37	1
01363	p,p-DDE	72-55-9	0.34	U	0.34	0.37	1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.37	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.37	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.7	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.3	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.86	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.15	20.5	1
07914	Boron	7440-42-8	4.10	J	0.910	5.11	1
01650	Calcium	7440-70-2	3,120		6.27	20.5	1
01654	Iron	7439-89-6	18,700		4.82	20.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167481
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	16.5		0.23	2.0	1
01657	Magnesium	7439-95-4	3,360		2.60	10.2	1
06958	Manganese	7439-96-5	340		0.0798	0.511	1
10145	Phosphorus	7723-14-0	242		0.573	10.2	1
01662	Potassium	7440-09-7	2,860		18.4	51.1	1
01667	Sodium	7440-23-5	91.0	J	38.2	102	1
07968	Strontium	7440-24-6	22.9		0.0634	0.511	1
06969	Tin	7440-31-5	2.31	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,170		0.389	1.02	1
10146	Zirconium	7440-67-7	2.16	J	0.859	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.212	J	0.0644	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.46		0.0644	0.430	2
06126	Barium	7440-39-3	119		0.116	0.430	2
06127	Beryllium	7440-41-7	0.632		0.0172	0.107	2
06128	Cadmium	7440-43-9	0.230		0.0387	0.107	2
06131	Chromium	7440-47-3	20.4		0.129	0.430	2
06132	Cobalt	7440-48-4	6.54		0.0215	0.107	2
06133	Copper	7440-50-8	10.8		0.0709	0.430	2
06135	Lead	7439-92-1	13.8		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.839		0.0537	0.107	2
06139	Nickel	7440-02-0	13.8		0.107	0.430	2
06141	Selenium	7782-49-2	0.143	J	0.0430	0.430	2
06142	Silver	7440-22-4	0.100	J	0.0129	0.107	2
06145	Thallium	7440-28-0	0.358		0.0322	0.107	2
06148	Vanadium	7440-62-2	38.0		0.0236	0.107	2
06149	Zinc	7440-66-6	57.3		0.602	3.22	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	448		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167481
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.23	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 12:14	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 14:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/01/2011 21:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 00:27	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 04:39	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167481
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 16:30	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 15:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	01/04/2011 12:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 15:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 12:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 15:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 11:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 03:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 19:14	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167482
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180	1
04688	Acenaphthylene	208-96-8	1,600		18	180	1
04688	Aniline	62-53-3	670		180	540	1
04688	Anthracene	120-12-7	1,700		18	180	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,600		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,500		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,500		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,400		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,400		18	180	1
04688	Benzoic acid	65-85-0	800		180	540	1
04688	Benzyl alcohol	100-51-6	1,700		180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,500		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180	1
04688	Carbazole	86-74-8	1,700		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		36	180	1
04688	4-Chloroaniline	106-47-8	880		72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180	1
04688	2-Chlorophenol	95-57-8	1,600		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		36	180	1
04688	Chrysene	218-01-9	1,600		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180	1
04688	Dibenzofuran	132-64-9	1,600		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	940		110	360	1
04688	2,4-Dichlorophenol	120-83-2	1,600		18	180	1
04688	Diethylphthalate	84-66-2	1,500		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,500		36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700		36	180	1
04688	Dimethylphthalate	131-11-3	1,600		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600		180	540	1
04688	2,4-Dinitrophenol	51-28-5	2,100	J	720	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,600		36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		18	360	1
04688	Fluoranthene	206-44-0	2,000		18	180	1
04688	Fluorene	86-73-7	1,600		18	180	1
04688	Hexachlorobenzene	118-74-1	1,700		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,400		72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	3,000		180	540	1
04688	Hexachloroethane	67-72-1	1,400		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180	1
04688	Isophorone	78-59-1	1,500		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167482
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,400	18	180	1
04688	2-Methylphenol	95-48-7	1,600	36	180	1
04688	4-Methylphenol	106-44-5	1,700	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,500	18	180	1
04688	2-Nitroaniline	88-74-4	1,700	18	180	1
04688	3-Nitroaniline	99-09-2	1,400	36	180	1
04688	4-Nitroaniline	100-01-6	1,400	72	180	1
04688	Nitrobenzene	98-95-3	1,400	18	180	1
04688	2-Nitrophenol	88-75-5	1,500	18	180	1
04688	4-Nitrophenol	100-02-7	1,100	180	540	1
04688	N-Nitrosodimethylamine	62-75-9	1,700	36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,500	18	180	1
04688	Pentachlorophenol	87-86-5	1,500	180	540	1
04688	Phenanthrene	85-01-8	1,600	18	180	1
04688	Phenol	108-95-2	1,600	18	180	1
04688	Pyrene	129-00-0	1,400	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,500	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	30	0.72	1.8	1
10138	Acenaphthylene	208-96-8	31	0.36	1.8	1
10138	Anthracene	120-12-7	33	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	33	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	31	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	41	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	16	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	32	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	37	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	37	6.4	19	1
10138	Chrysene	218-01-9	35	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	19	0.72	1.8	1
10138	Diethylphthalate	84-66-2	29	6.4	19	1
10138	Dimethylphthalate	131-11-3	33	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	60	6.4	19	1
10138	Fluoranthene	206-44-0	38	0.72	1.8	1
10138	Fluorene	86-73-7	33	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	33	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167482
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	29		0.72	1.8	1
10138	Naphthalene	91-20-3	32		0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	35		0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	46		6.4	19	1
10138	Phenanthrene	85-01-8	35		0.72	1.8	1
10138	Pyrene	129-00-0	34		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.4		1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	9.7		0.67	1.8	1
10401	Dicamba	1918-00-9	1.1	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.98	J	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.86	1.8	1
10401	MCPA	94-74-6	1,300		82	270	1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270	1
10401	2,4,5-T	93-76-5	0.74		0.088	0.18	1
10401	2,4,5-TP	93-72-1	1.0		0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.34		0.071	0.18	1
01363	Alpha BHC	319-84-6	0.39		0.037	0.18	1
01363	Beta BHC	319-85-7	0.28		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.40		0.037	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7	1
01363	p,p-DDD	72-54-8	0.70		0.071	0.37	1
01363	p,p-DDE	72-55-9	0.95		0.071	0.37	1
01363	p,p-DDT	50-29-3	0.82		0.071	0.37	1
01363	Delta BHC	319-86-8	0.26		0.039	0.18	1
01363	Dieldrin	60-57-1	0.55		0.071	0.37	1
01363	Endosulfan I	959-98-8	0.24		0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.75		0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.82		0.071	0.37	1
01363	Endrin	72-20-8	0.57		0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.41		0.071	0.37	1
01363	Endrin Ketone	53494-70-5	0.67		0.071	0.37	1
01363	Heptachlor	76-44-8	0.26		0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.37		0.037	0.18	1
01363	Methoxychlor	72-43-5	2.4		0.37	1.8	1
01363	Mirex	2385-85-5	0.16	J	0.071	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	

Sample Description: **SL-189-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167482
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	5.3		1.1	3.5	1
10225	PCB-1016	12674-11-2	24		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	11		0.35	1.8	1
10225	PCB-1260	11096-82-5	26		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		5.15	20.5	1
07914	Boron	7440-42-8	194		0.910	5.11	1
01650	Calcium	7440-70-2	3,470		6.27	20.5	1
01654	Iron	7439-89-6	17,800		4.82	20.5	1
01656	Lithium	7439-93-2	119		0.23	2.0	1
01657	Magnesium	7439-95-4	3,680		2.60	10.2	1
06958	Manganese	7439-96-5	371		0.0798	0.511	1
10145	Phosphorus	7723-14-0	307		0.573	10.2	1
01662	Potassium	7440-09-7	4,120		18.4	51.1	1
01667	Sodium	7440-23-5	1,090		38.2	102	1
07968	Strontium	7440-24-6	124		0.0634	0.511	1
06969	Tin	7440-31-5	370		1.02	10.2	1
06970	Titanium	7440-32-6	1,460		0.389	1.02	1
10146	Zirconium	7440-67-7	97.5		0.859	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.990		0.0632	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.7		0.0632	0.421	2
06126	Barium	7440-39-3	182		0.114	0.421	2
06127	Beryllium	7440-41-7	2.22		0.0168	0.105	2
06128	Cadmium	7440-43-9	2.14		0.0379	0.105	2
06131	Chromium	7440-47-3	42.8		0.126	0.421	2
06132	Cobalt	7440-48-4	78.9		0.0211	0.105	2
06133	Copper	7440-50-8	27.3		0.0695	0.421	2
06135	Lead	7439-92-1	23.0		0.0110	0.211	2
06138	Molybdenum	7439-98-7	18.6		0.0527	0.105	2
06139	Nickel	7440-02-0	33.0		0.105	0.421	2
06141	Selenium	7782-49-2	2.05		0.0421	0.421	2
06142	Silver	7440-22-4	17.3		0.0126	0.105	2
06145	Thallium	7440-28-0	1.13		0.0316	0.105	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167482
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	68.4	0.0232	0.105	2
06149	Zinc	7440-66-6	94.6	0.590	3.16	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.195	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.8	0.86	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	524	9.7	32.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	35.1	1.1	5.4	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 12:43	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 14:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/01/2011 22:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 00:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 04:58	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167482
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 16:42	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 15:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 15:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 12:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 15:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 11:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 04:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 19:30	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167483
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180	1
04688	Acenaphthylene	208-96-8	1,700		18	180	1
04688	Aniline	62-53-3	470	J	180	540	1
04688	Anthracene	120-12-7	1,600		18	180	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,500		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,400		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,500		18	180	1
04688	Benzoic acid	65-85-0	350	J	180	540	1
04688	Benzyl alcohol	100-51-6	1,600		180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,500		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180	1
04688	Carbazole	86-74-8	1,700		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		36	180	1
04688	4-Chloroaniline	106-47-8	780		72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180	1
04688	2-Chlorophenol	95-57-8	1,600		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180	1
04688	Chrysene	218-01-9	1,700		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180	1
04688	Dibenzofuran	132-64-9	1,700		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	840		110	360	1
04688	2,4-Dichlorophenol	120-83-2	1,600		18	180	1
04688	Diethylphthalate	84-66-2	1,600		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,300		36	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700		36	180	1
04688	Dimethylphthalate	131-11-3	1,600		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400		180	540	1
04688	2,4-Dinitrophenol	51-28-5	1,800	J	720	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		36	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		18	360	1
04688	Fluoranthene	206-44-0	1,800		18	180	1
04688	Fluorene	86-73-7	1,600		18	180	1
04688	Hexachlorobenzene	118-74-1	1,700		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,500		72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	3,200		180	540	1
04688	Hexachloroethane	67-72-1	1,400		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180	1
04688	Isophorone	78-59-1	1,500		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167483
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180	1
04688	2-Methylphenol	95-48-7	1,500	36	180	1
04688	4-Methylphenol	106-44-5	1,600	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,500	18	180	1
04688	2-Nitroaniline	88-74-4	1,700	18	180	1
04688	3-Nitroaniline	99-09-2	1,400	36	180	1
04688	4-Nitroaniline	100-01-6	1,300	72	180	1
04688	Nitrobenzene	98-95-3	1,400	18	180	1
04688	2-Nitrophenol	88-75-5	1,600	18	180	1
04688	4-Nitrophenol	100-02-7	1,100	180	540	1
04688	N-Nitrosodimethylamine	62-75-9	1,700	36	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,500	18	180	1
04688	Pentachlorophenol	87-86-5	1,400	180	540	1
04688	Phenanthrene	85-01-8	1,600	18	180	1
04688	Phenol	108-95-2	1,600	18	180	1
04688	Pyrene	129-00-0	1,500	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	29	0.72	1.8	1
10138	Acenaphthylene	208-96-8	31	0.36	1.8	1
10138	Anthracene	120-12-7	32	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	33	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	30	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	44	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	17	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	31	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	35	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	37	6.4	19	1
10138	Chrysene	218-01-9	32	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	21	0.72	1.8	1
10138	Diethylphthalate	84-66-2	29	6.4	19	1
10138	Dimethylphthalate	131-11-3	32	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41	6.4	19	1
10138	Fluoranthene	206-44-0	34	0.72	1.8	1
10138	Fluorene	86-73-7	32	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	31	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167483
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	28		0.72	1.8	1
10138	Naphthalene	91-20-3	30		0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	34		0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	40		6.4	19	1
10138	Phenanthrene	85-01-8	31		0.72	1.8	1
10138	Pyrene	129-00-0	31		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.2		1.3	3.9	1
10401	Dalapon	75-99-0	5.4	J	4.7	9.7	1
10401	2,4-DB	94-82-6	25		0.67	1.8	1
10401	Dicamba	1918-00-9	1.8		0.43	1.3	1
10401	Dinoseb	88-85-7	2.4	J	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.86	1.8	1
10401	MCPA	94-74-6	1,400		82	270	1
10401	MCPP (Mecoprop)	93-65-2	990		81	270	1
10401	2,4,5-T	93-76-5	0.97		0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.93		0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.33		0.071	0.18	1
01363	Alpha BHC	319-84-6	0.23		0.037	0.18	1
01363	Beta BHC	319-85-7	0.26		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.26		0.037	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7	1
01363	p,p-DDD	72-54-8	0.72		0.071	0.37	1
01363	p,p-DDE	72-55-9	1.2		0.071	0.37	1
01363	p,p-DDT	50-29-3	0.90		0.071	0.37	1
01363	Delta BHC	319-86-8	0.25		0.039	0.18	1
01363	Dieldrin	60-57-1	0.57		0.071	0.37	1
01363	Endosulfan I	959-98-8	0.26		0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.77		0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.77		0.071	0.37	1
01363	Endrin	72-20-8	0.57		0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.42		0.071	0.37	1
01363	Endrin Ketone	53494-70-5	0.55		0.071	0.37	1
01363	Heptachlor	76-44-8	0.26		0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.39		0.037	0.18	1
01363	Methoxychlor	72-43-5	2.4		0.37	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167483
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	3.8		1.1	3.5	1
10225	PCB-1016	12674-11-2	20		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	8.4		0.35	1.8	1
10225	PCB-1260	11096-82-5	24		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,100		5.25	20.9	1
07914	Boron	7440-42-8	194		0.928	5.21	1
01650	Calcium	7440-70-2	3,690		6.39	20.9	1
01654	Iron	7439-89-6	20,300		4.91	20.9	1
01656	Lithium	7439-93-2	119		0.23	2.1	1
01657	Magnesium	7439-95-4	3,990		2.65	10.4	1
06958	Manganese	7439-96-5	430		0.0813	0.521	1
10145	Phosphorus	7723-14-0	339		0.584	10.4	1
01662	Potassium	7440-09-7	4,360		18.8	52.1	1
01667	Sodium	7440-23-5	1,080		38.9	104	1
07968	Strontium	7440-24-6	125		0.0647	0.521	1
06969	Tin	7440-31-5	372		1.04	10.4	1
06970	Titanium	7440-32-6	1,540		0.396	1.04	1
10146	Zirconium	7440-67-7	98.8		0.876	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.912		0.0626	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.7		0.0626	0.417	2
06126	Barium	7440-39-3	184		0.113	0.417	2
06127	Beryllium	7440-41-7	2.29		0.0167	0.104	2
06128	Cadmium	7440-43-9	2.09		0.0375	0.104	2
06131	Chromium	7440-47-3	45.2		0.125	0.417	2
06132	Cobalt	7440-48-4	80.7		0.0209	0.104	2
06133	Copper	7440-50-8	28.2		0.0688	0.417	2
06135	Lead	7439-92-1	25.3		0.0108	0.209	2
06138	Molybdenum	7439-98-7	19.3		0.0521	0.104	2
06139	Nickel	7440-02-0	33.8		0.104	0.417	2
06141	Selenium	7782-49-2	2.05		0.0417	0.417	2
06142	Silver	7440-22-4	17.5		0.0125	0.104	2
06145	Thallium	7440-28-0	1.13		0.0313	0.104	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167483
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	70.7	0.0229	0.104	2
06149	Zinc	7440-66-6	97.4	0.584	3.13	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.174	0.0030	0.103	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 13:13	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/06/2011 15:21	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/01/2011 22:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 00:56	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 05:17	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167483
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 16:46	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 15:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 15:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 12:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 15:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167484
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.35	21.3	1
07914	Boron	7440-42-8	4.06	J	0.946	5.32	1
01650	Calcium	7440-70-2	2,660		6.52	21.3	1
01654	Iron	7439-89-6	16,900		5.01	21.3	1
01656	Lithium	7439-93-2	15.9		0.23	2.1	1
01657	Magnesium	7439-95-4	3,280		2.70	10.6	1
06958	Manganese	7439-96-5	349		0.0830	0.532	1
10145	Phosphorus	7723-14-0	206		0.596	10.6	1
01662	Potassium	7440-09-7	2,780		19.1	53.2	1
01667	Sodium	7440-23-5	87.5	J	39.7	106	1
07968	Strontium	7440-24-6	21.5		0.0659	0.532	1
06969	Tin	7440-31-5	2.28	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,140		0.404	1.06	1
10146	Zirconium	7440-67-7	2.57	J	0.893	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.233		0.0620	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.83		0.0620	0.413	2
06126	Barium	7440-39-3	151		0.112	0.413	2
06127	Beryllium	7440-41-7	0.827		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.325		0.0372	0.103	2
06131	Chromium	7440-47-3	27.3		0.124	0.413	2
06132	Cobalt	7440-48-4	8.02		0.0207	0.103	2
06133	Copper	7440-50-8	13.4		0.0682	0.413	2
06135	Lead	7439-92-1	18.2		0.0107	0.207	2
06138	Molybdenum	7439-98-7	0.979		0.0516	0.103	2
06139	Nickel	7440-02-0	17.7		0.103	0.413	2
06141	Selenium	7782-49-2	0.124	J	0.0413	0.413	2
06142	Silver	7440-22-4	0.108		0.0124	0.103	2
06145	Thallium	7440-28-0	0.418		0.0310	0.103	2
06148	Vanadium	7440-62-2	48.5		0.0227	0.103	2
06149	Zinc	7440-66-6	77.8		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167484
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	463	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.14	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3		n.a.	6.9	0.50	0.50	1
11626	28a Moisture Content by 160.3		n.a.	6.8	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 16:38	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 15:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-189-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167484
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL189 SDG#: DE042-14DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 15:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 15:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 11:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 03:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 20:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-192-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167485
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE042-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	47	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-192-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167485
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE042-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.44	J	0.36	1.8	1
10138	Anthracene	120-12-7	1.1	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	4.9		0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	4.8		0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	8.3		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.8		0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	8.0		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	J	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	13		0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	1.9		0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	2.1		0.72	1.8	1
10138	Naphthalene	91-20-3	1.8	J	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	8.2		0.72	1.8	1
10138	Pyrene	129-00-0	9.3		0.72	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	14	U	14	14	1
10401	Dicamba	1918-00-9	0.84	J	0.43	1.3	1
10401	Dinoseb	88-85-7	1.8	U	1.8	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	470	U	470	470	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-192-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167485
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE042-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.36	U	0.36	0.89	5
01363	Alpha BHC	319-84-6	0.18	U	0.18	0.89	5
01363	Beta BHC	319-85-7	0.32	U	0.32	0.89	5
01363	Gamma BHC - Lindane	58-89-9	0.18	U	0.18	0.89	5
01363	Chlordane	57-74-9	4.3	U	4.3	18	5
01363	p,p-DDD	72-54-8	0.36	U	0.36	1.8	5
01363	p,p-DDE	72-55-9	0.40	U	0.40	1.8	5
01363	p,p-DDT	50-29-3	0.36	U	0.36	1.8	5
01363	Delta BHC	319-86-8	0.19	U	0.19	0.89	5
01363	Dieldrin	60-57-1	0.36	U	0.36	1.8	5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.89	5
01363	Endosulfan II	33213-65-9	0.36	U	0.36	1.8	5
01363	Endosulfan Sulfate	1031-07-8	0.36	U	0.36	1.8	5
01363	Endrin	72-20-8	0.36	U	0.36	1.8	5
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	1.8	5
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	1.8	5
01363	Heptachlor	76-44-8	0.32	U	0.32	0.89	5
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.89	5
01363	Methoxychlor	72-43-5	1.8	U	1.8	8.9	5
01363	Mirex	2385-85-5	0.36	U	0.36	1.8	5
01363	Toxaphene	8001-35-2	12	U	12	36	5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18	5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18	5
10225	Aroclor 5460	11126-42-4	5.4	U	5.4	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1	5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.1	5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.1	5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.1	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1	5
10225	PCB-1254	11097-69-1	3.3	J	1.8	9.1	5
10225	PCB-1260	11096-82-5	5.5	J	1.8	9.1	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1	5

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-192-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167485
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE042-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.16	20.5	1
07914	Boron	7440-42-8	3.00	J	0.912	5.13	1
01650	Calcium	7440-70-2	3,140		6.28	20.5	1
01654	Iron	7439-89-6	17,600		4.83	20.5	1
01656	Lithium	7439-93-2	18.4		0.23	2.1	1
01657	Magnesium	7439-95-4	4,110		2.60	10.3	1
06958	Manganese	7439-96-5	223		0.0800	0.513	1
10145	Phosphorus	7723-14-0	316		0.574	10.3	1
01662	Potassium	7440-09-7	2,680		18.5	51.3	1
01667	Sodium	7440-23-5	86.3	J	38.2	103	1
07968	Strontium	7440-24-6	21.2		0.0636	0.513	1
06969	Tin	7440-31-5	2.02	J	1.03	10.3	1
06970	Titanium	7440-32-6	859		0.390	1.03	1
10146	Zirconium	7440-67-7	1.38	J	0.861	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.247		0.0615	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	15.1		0.0615	0.410	2
06126	Barium	7440-39-3	166		0.111	0.410	2
06127	Beryllium	7440-41-7	0.846		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.507		0.0369	0.103	2
06131	Chromium	7440-47-3	33.2		0.123	0.410	2
06132	Cobalt	7440-48-4	8.86		0.0205	0.103	2
06133	Copper	7440-50-8	17.3		0.0677	0.410	2
06135	Lead	7439-92-1	16.4		0.0107	0.205	2
06138	Molybdenum	7439-98-7	0.936		0.0513	0.103	2
06139	Nickel	7440-02-0	21.8		0.103	0.410	2
06141	Selenium	7782-49-2	0.118	J	0.0410	0.410	2
06142	Silver	7440-22-4	0.121		0.0123	0.103	2
06145	Thallium	7440-28-0	0.424		0.0308	0.103	2
06148	Vanadium	7440-62-2	56.9		0.0226	0.103	2
06149	Zinc	7440-66-6	129		0.574	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.321		0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.5		0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-192-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167485
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

SL192 SDG#: DE042-15

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	466	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.12	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	7.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 20:03	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/07/2011 09:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 06:57	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 01:25	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 05:35	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-192-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167485
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL192 SDG#: DE042-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 18:00	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 13:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 05:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 20:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-194-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167486
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL194 SDG#: DE042-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-194-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167486
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL194 SDG#: DE042-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.45	J	0.37	1.8	1
10138	Anthracene	120-12-7	1.2	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	3.6		0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	7.3		0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	18		0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	11		0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	4.3		0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	8.1		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	8.9		0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	12		0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	2.3		0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	2.5		0.74	1.8	1
10138	Naphthalene	91-20-3	2.3		0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	6.4		0.74	1.8	1
10138	Pyrene	129-00-0	7.3		0.74	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	23	U	23	23	1
10401	Dicamba	1918-00-9	0.46	J	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	3.0	U	3.0	3.0	1
10401	MCPA	94-74-6	180	U	180	280	1
10401	MCPP (Mecoprop)	93-65-2	590	U	590	590	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

Sample Description: SL-194-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167486
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL194 SDG#: DE042-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.14	J	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	5.0	U	5.0	5.0	1
01363	p,p-DDD	72-54-8	0.23	U	0.23	0.38	1
01363	p,p-DDE	72-55-9	0.29	U	0.29	0.38	1
01363	p,p-DDT	50-29-3	0.51	U	0.51	0.51	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.080	U	0.080	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.23	U	0.23	0.38	1
01363	Endrin Ketone	53494-70-5	0.13	U	0.13	0.38	1
01363	Heptachlor	76-44-8	0.44	U	0.44	0.44	1
01363	Heptachlor Epoxide	1024-57-3	0.065	U	0.065	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.13	U	0.13	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	3.0	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	9.5		0.37	1.9	1
10225	PCB-1260	11096-82-5	3.9		0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.47	21.7	1
07914	Boron	7440-42-8	3.76	J	0.967	5.43	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-194-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167486
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL194 SDG#: DE042-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,060		6.66	21.7	1
01654	Iron	7439-89-6	19,600		5.12	21.7	1
01656	Lithium	7439-93-2	19.6		0.24	2.2	1
01657	Magnesium	7439-95-4	4,200		2.76	10.9	1
06958	Manganese	7439-96-5	290		0.0848	0.543	1
10145	Phosphorus	7723-14-0	348		0.609	10.9	1
01662	Potassium	7440-09-7	3,010		19.6	54.3	1
01667	Sodium	7440-23-5	98.5	J	40.5	109	1
07968	Strontium	7440-24-6	21.6		0.0674	0.543	1
06969	Tin	7440-31-5	2.67	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,210		0.413	1.09	1
10146	Zirconium	7440-67-7	1.63	J	0.913	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.209	J	0.0646	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.02		0.0646	0.431	2
06126	Barium	7440-39-3	156		0.116	0.431	2
06127	Beryllium	7440-41-7	0.881		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.261		0.0387	0.108	2
06131	Chromium	7440-47-3	29.1		0.129	0.431	2
06132	Cobalt	7440-48-4	8.37		0.0215	0.108	2
06133	Copper	7440-50-8	12.5		0.0710	0.431	2
06135	Lead	7439-92-1	14.2		0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.752		0.0538	0.108	2
06139	Nickel	7440-02-0	17.2		0.108	0.431	2
06141	Selenium	7782-49-2	0.132	J	0.0431	0.431	2
06142	Silver	7440-22-4	0.0775	J	0.0129	0.108	2
06145	Thallium	7440-28-0	0.391		0.0323	0.108	2
06148	Vanadium	7440-62-2	56.3		0.0237	0.108	2
06149	Zinc	7440-66-6	90.8		0.603	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.101	J	0.0029	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-194-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167486
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL194 SDG#: DE042-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	451	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 20:33	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/07/2011 10:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 07:25	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 01:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 05:54	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-194-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167486
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL194 SDG#: DE042-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 18:04	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 13:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 06:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 21:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-196-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167487
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL196 SDG#: DE042-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-196-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167487
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL196 SDG#: DE042-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.41	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.4		0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.0		0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.8		0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	4.2		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	6.3	19	1
10138	Fluoranthene	206-44-0	5.0		0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.93	J	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.96	J	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	1.1	J	0.70	1.8	1
10138	Naphthalene	91-20-3	0.96	J	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	4.5		0.70	1.8	1
10138	Pyrene	129-00-0	4.6		0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	22	U	22	22	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	4.1	U	4.1	4.1	1
10401	MCPA	94-74-6	80	U	80	260	1
10401	MCPP (Mecoprop)	93-65-2	560	U	560	560	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.27	U	0.27	0.27	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result

Sample Description: SL-196-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167487
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL196 SDG#: DE042-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.084	J	0.070	0.17	1
01363	Alpha BHC	319-84-6	0.043	J	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.048	J	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.36	1
01363	p,p-DDE	72-55-9	0.43	U	0.43	0.43	1
01363	p,p-DDT	50-29-3	0.48	U	0.48	0.48	1
01363	Delta BHC	319-86-8	0.12	U	0.12	0.17	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.081	U	0.081	0.17	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.37	U	0.37	0.37	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.40	U	0.40	0.40	1
01363	Methoxychlor	72-43-5	0.67	U	0.67	1.7	1
01363	Mirex	2385-85-5	0.87	U	0.87	0.87	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	6.1		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	20		0.35	1.8	1
10225	PCB-1260	11096-82-5	4.8		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		5.05	20.1	1
07914	Boron	7440-42-8	3.62	J	0.893	5.02	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-196-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167487
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL196 SDG#: DE042-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,860		6.15	20.1	1
01654	Iron	7439-89-6	20,400		4.73	20.1	1
01656	Lithium	7439-93-2	17.8		0.22	2.0	1
01657	Magnesium	7439-95-4	3,870		2.55	10.0	1
06958	Manganese	7439-96-5	352		0.0783	0.502	1
10145	Phosphorus	7723-14-0	325		0.562	10.0	1
01662	Potassium	7440-09-7	3,510		18.1	50.2	1
01667	Sodium	7440-23-5	104		37.4	100	1
07968	Strontium	7440-24-6	29.4		0.0622	0.502	1
06969	Tin	7440-31-5	2.24	J	1.00	10.0	1
06970	Titanium	7440-32-6	1,190		0.381	1.00	1
10146	Zirconium	7440-67-7	2.34	J	0.843	5.02	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206		0.0602	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.1		0.0602	0.401	2
06126	Barium	7440-39-3	178		0.108	0.401	2
06127	Beryllium	7440-41-7	0.974		0.0161	0.100	2
06128	Cadmium	7440-43-9	0.407		0.0361	0.100	2
06131	Chromium	7440-47-3	29.6		0.120	0.401	2
06132	Cobalt	7440-48-4	11.8		0.0201	0.100	2
06133	Copper	7440-50-8	14.4		0.0662	0.401	2
06135	Lead	7439-92-1	16.6		0.0104	0.201	2
06138	Molybdenum	7439-98-7	1.35		0.0502	0.100	2
06139	Nickel	7440-02-0	19.0		0.100	0.401	2
06141	Selenium	7782-49-2	0.135	J	0.0401	0.401	2
06142	Silver	7440-22-4	0.105		0.0120	0.100	2
06145	Thallium	7440-28-0	0.410		0.0301	0.100	2
06148	Vanadium	7440-62-2	55.6		0.0221	0.100	2
06149	Zinc	7440-66-6	91.8		0.562	3.01	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0267	J	0.0028	0.0989	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-196-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167487
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL196 SDG#: DE042-17

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	471	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.02	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/19/2011 21:02	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/07/2011 01:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 07:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 01:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 06:12	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-196-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167487
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL196 SDG#: DE042-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 18:08	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 13:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 06:32	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 21:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-198-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167488
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE042-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-198-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167488
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE042-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9	5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9	5
10138	Benzo(a)anthracene	56-55-3	3.9	J	3.6	8.9	5
10138	Benzo(a)pyrene	50-32-8	8.6	J	3.6	8.9	5
10138	Benzo(b)fluoranthene	205-99-2	24		3.6	8.9	5
10138	Benzo(g,h,i)perylene	191-24-2	15		3.6	8.9	5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	8.9	5
10138	Chrysene	218-01-9	14		1.8	8.9	5
10138	Dibenz(a,h)anthracene	53-70-3	7.6	J	3.6	8.9	5
10138	Fluoranthene	206-44-0	4.5	J	3.6	8.9	5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.6		3.6	8.9	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	8.9	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	8.9	5
10138	Naphthalene	91-20-3	3.6	U	3.6	8.9	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9	5
10138	Phenanthrene	85-01-8	4.7	J	3.6	8.9	5
10138	Pyrene	129-00-0	4.4	J	3.6	8.9	5
	Reporting limits were raised due to interference from the sample matrix.						
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	17	U	17	17	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	540	U	540	540	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.41	U	0.41	0.41	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-198-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167488
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE042-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.14	J	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.30	U	0.30	0.36	1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.36	1
01363	p,p-DDT	50-29-3	0.41	U	0.41	0.41	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	1.3	U	1.3	1.3	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	3.2	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	5.5		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.6		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

Sample Description: SL-198-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167488
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE042-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.17	20.5	1
07914	Boron	7440-42-8	4.82	J	0.914	5.14	1
01650	Calcium	7440-70-2	3,690		6.30	20.5	1
01654	Iron	7439-89-6	17,900		4.84	20.5	1
01656	Lithium	7439-93-2	17.2		0.23	2.1	1
01657	Magnesium	7439-95-4	3,670		2.61	10.3	1
06958	Manganese	7439-96-5	305		0.0801	0.514	1
10145	Phosphorus	7723-14-0	332		0.575	10.3	1
01662	Potassium	7440-09-7	3,150		18.5	51.4	1
01667	Sodium	7440-23-5	96.2	J	38.3	103	1
07968	Strontium	7440-24-6	22.6		0.0637	0.514	1
06969	Tin	7440-31-5	2.30	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,130		0.390	1.03	1
10146	Zirconium	7440-67-7	1.81	J	0.863	5.14	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.530		0.0628	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.8		0.0628	0.419	2
06126	Barium	7440-39-3	158		0.113	0.419	2
06127	Beryllium	7440-41-7	0.799		0.0168	0.105	2
06128	Cadmium	7440-43-9	1.33		0.0377	0.105	2
06131	Chromium	7440-47-3	38.6		0.126	0.419	2
06132	Cobalt	7440-48-4	33.3		0.0209	0.105	2
06133	Copper	7440-50-8	102		0.0691	0.419	2
06135	Lead	7439-92-1	59.0		0.0109	0.209	2
06138	Molybdenum	7439-98-7	2.73		0.0524	0.105	2
06139	Nickel	7440-02-0	36.3		0.105	0.419	2
06141	Selenium	7782-49-2	0.126	J	0.0419	0.419	2
06142	Silver	7440-22-4	0.146		0.0126	0.105	2
06145	Thallium	7440-28-0	0.422		0.0314	0.105	2
06148	Vanadium	7440-62-2	55.3		0.0230	0.105	2
06149	Zinc	7440-66-6	188		0.587	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0108	J	0.0028	0.0992	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-198-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167488
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE042-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	475	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.56	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/20/2011 17:35	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/07/2011 11:02	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 08:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 02:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 06:31	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-198-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167488
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE042-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 18:12	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 14:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 07:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 21:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167489
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE042-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167489
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE042-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.0		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	2.6		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.5	J	6.4	19	1
10138	Fluoranthene	206-44-0	1.8		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.94	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.77	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	1.2	J	0.71	1.8	1
10138	Pyrene	129-00-0	1.7	J	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	570		81	270	1
10401	MCPP (Mecoprop)	93-65-2	220	J	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167489
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE042-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.27	U	0.27	0.27	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.38	U	0.38	0.38	1
01363	p,p-DDT	50-29-3	0.73	U	0.73	0.73	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.24	U	0.24	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.21	U	0.21	0.21	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.0	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.0	2
10225	Aroclor 5460	11126-42-4	9.9		2.1	7.0	2
10225	PCB-1016	12674-11-2	0.70	U	0.70	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.70	U	0.70	3.6	2
10225	PCB-1254	11097-69-1	7.8		0.70	3.6	2
10225	PCB-1260	11096-82-5	13		0.70	3.6	2
10225	PCB-1262	37324-23-5	0.70	U	0.70	3.6	2
10225	PCB-1268	11100-14-4	0.70	U	0.70	3.6	2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.35	21.3	1
07914	Boron	7440-42-8	4.89	J	0.947	5.32	1
01650	Calcium	7440-70-2	4,040		6.52	21.3	1
01654	Iron	7439-89-6	20,000		5.01	21.3	1
01656	Lithium	7439-93-2	19.2		0.23	2.1	1
01657	Magnesium	7439-95-4	4,360		2.70	10.6	1
06958	Manganese	7439-96-5	346		0.0830	0.532	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167489
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE042-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	300		0.596	10.6	1
01662	Potassium	7440-09-7	3,260		19.1	53.2	1
01667	Sodium	7440-23-5	93.2	J	39.7	106	1
07968	Strontium	7440-24-6	22.4		0.0660	0.532	1
06969	Tin	7440-31-5	2.28	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,160		0.404	1.06	1
10146	Zirconium	7440-67-7	1.53	J	0.894	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.157	J	0.0632	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.33		0.0632	0.421	2
06126	Barium	7440-39-3	142		0.114	0.421	2
06127	Beryllium	7440-41-7	0.742		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.517		0.0379	0.105	2
06131	Chromium	7440-47-3	29.9		0.126	0.421	2
06132	Cobalt	7440-48-4	10.0		0.0211	0.105	2
06133	Copper	7440-50-8	25.4		0.0695	0.421	2
06135	Lead	7439-92-1	22.0		0.0110	0.211	2
06138	Molybdenum	7439-98-7	1.15		0.0527	0.105	2
06139	Nickel	7440-02-0	23.3		0.105	0.421	2
06141	Selenium	7782-49-2	0.204	J	0.0421	0.421	2
06142	Silver	7440-22-4	0.0725	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.424		0.0316	0.105	2
06148	Vanadium	7440-62-2	50.1		0.0232	0.105	2
06149	Zinc	7440-66-6	82.9		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0029	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	413		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

Sample Description: SL-199-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167489
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE042-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.62	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/20/2011 18:03	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/07/2011 11:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 08:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 02:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 06:49	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167489
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE042-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 18:16	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 14:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 07:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 21:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-202-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167490
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE042-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Fluoranthene	206-44-0	59	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-202-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167490
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE042-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Pyrene	129-00-0	57	J	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9	5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9	5
10138	Benzo(a)anthracene	56-55-3	6.4	J	3.6	8.9	5
10138	Benzo(a)pyrene	50-32-8	6.0	J	3.6	8.9	5
10138	Benzo(b)fluoranthene	205-99-2	10		3.6	8.9	5
10138	Benzo(g,h,i)perylene	191-24-2	4.4	J	3.6	8.9	5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	8.9	5
10138	Chrysene	218-01-9	8.6	J	1.8	8.9	5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	8.9	5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	8.9	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	8.9	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	8.9	5
10138	Naphthalene	91-20-3	3.6	U	3.6	8.9	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9	5
10138	Phenanthrene	85-01-8	4.8	J	3.6	8.9	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	17	U	17	17	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	310		81	270	1
10401	MCPP (Mecoprop)	93-65-2	560	U	560	560	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-202-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167490
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE042-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	4.6	U	4.6	4.6	1
01363	p,p-DDD	72-54-8	0.68	U	0.68	0.68	1
01363	p,p-DDE	72-55-9	0.084	U	0.084	0.36	1
01363	p,p-DDT	50-29-3	0.64	U	0.64	0.64	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.35	U	0.35	0.36	1
01363	Endosulfan I	959-98-8	0.083	U	0.083	0.18	1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18	1
01363	Methoxychlor	72-43-5	0.43	U	0.43	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	1.8	J	0.35	1.8	1
10225	PCB-1254	11097-69-1	2.4		0.35	1.8	1
10225	PCB-1260	11096-82-5	1.8	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.34	21.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-202-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167490
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/03/2011 16:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE042-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	4.42	J	0.944	5.31	1
01650	Calcium	7440-70-2	3,400		6.51	21.2	1
01654	Iron	7439-89-6	22,900		5.00	21.2	1
01656	Lithium	7439-93-2	21.9		0.23	2.1	1
01657	Magnesium	7439-95-4	4,580		2.70	10.6	1
06958	Manganese	7439-96-5	350		0.0828	0.531	1
10145	Phosphorus	7723-14-0	445		0.594	10.6	1
01662	Potassium	7440-09-7	3,960		19.1	53.1	1
01667	Sodium	7440-23-5	93.3	J	39.6	106	1
07968	Strontium	7440-24-6	22.6		0.0658	0.531	1
06969	Tin	7440-31-5	2.61	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,240		0.403	1.06	1
10146	Zirconium	7440-67-7	1.47	J	0.891	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.189	J	0.0618	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.14		0.0618	0.412	2
06126	Barium	7440-39-3	154		0.111	0.412	2
06127	Beryllium	7440-41-7	0.775		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.334		0.0371	0.103	2
06131	Chromium	7440-47-3	28.3		0.124	0.412	2
06132	Cobalt	7440-48-4	7.91		0.0206	0.103	2
06133	Copper	7440-50-8	13.2		0.0680	0.412	2
06135	Lead	7439-92-1	17.3		0.0107	0.206	2
06138	Molybdenum	7439-98-7	1.05		0.0515	0.103	2
06139	Nickel	7440-02-0	18.1		0.103	0.412	2
06141	Selenium	7782-49-2	0.0909	J	0.0412	0.412	2
06142	Silver	7440-22-4	0.0856	J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.405		0.0309	0.103	2
06148	Vanadium	7440-62-2	53.0		0.0227	0.103	2
06149	Zinc	7440-66-6	98.7		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0503	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-202-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167490
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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SL202 SDG#: DE042-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	418	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.50	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLB026	01/20/2011 18:32	Timothy J Trees	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10355SLE026	01/07/2011 12:06	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10355SLE026	12/22/2010 06:45	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLB026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620012A	01/02/2011 09:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610030A	01/25/2011 02:39	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560034A	12/31/2010 07:08	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610030A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560034A	12/23/2010 06:30	Kerrie A Freeburn	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620012A	12/29/2010 00:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-202-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167490
LLI Group # 1225974
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE042-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103545708002	12/30/2010 18:19	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103541026002D	12/30/2010 16:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103541026002C	12/30/2010 16:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103541026002B	01/04/2011 13:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103541026002A	12/30/2010 16:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711001	12/23/2010 19:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103545708002	12/20/2010 13:11	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103541026002	12/20/2010 13:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103545711002	12/20/2010 16:08	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	103575711001	12/23/2010 11:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007205B	01/12/2011 14:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011201B	01/13/2011 08:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11013243202A	01/18/2011 22:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007205B	01/08/2011 10:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011201B	01/11/2011 19:40	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182101B	12/20/2010 14:00	Michele L Graham	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039401B	12/20/2010 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11013243202A	01/13/2011 20:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225974
Reported: 02/03/11 at 04:12 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10355SLB026	Sample number(s): 6167468-6167483,6167485-6167490									
Acenaphthene	17	U	17.	170	ug/kg	90		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	92		75-122		
Aniline	170 U		170.	500	ug/kg	73		10-107		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	62		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	87		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	85		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	88		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	88		67-125		
Benzoic acid	170 U		170.	500	ug/kg	87		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	87		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	87		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	83		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	83		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	75		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	90		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	89		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	80		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	93		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	91		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	87		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	91		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	98		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	95		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225974
Reported: 02/03/11 at 04:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	92		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	94		75-117		
Fluoranthene	17	U	17.	170	ug/kg	105		78-116		
Fluorene	17	U	17.	170	ug/kg	92		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	93		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	81		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	88		64-119		
Isophorone	17	U	17.	170	ug/kg	88		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	93		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	86		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	90		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	86		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	81		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	59		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	79		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	91		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	85		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	80		35-106		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Pyrene	17	U	17.	170	ug/kg	87		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	87		78-111		
Batch number: 10355SLE026	Sample number(s): 6167468-6167483,6167485-6167490									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	85		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	89		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	91		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	99		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	100		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	90		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	91		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	83		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	109		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	95		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	92		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	78		62-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225974
Reported: 02/03/11 at 04:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	92		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	94		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		56-121		
Batch number: 103620012A	Sample number(s): 6167468-6167483,6167485-6167490									
2,4-D	1.2	U	1.2	3.6	ug/kg	104		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	72		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	90		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	92		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	5*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	109		60-141		
MCPA	76	U	76.	250	ug/kg	111		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	120		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	102		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	82		48-138		
Batch number: 110040016A	Sample number(s): 6167468,6167472									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 103560034A	Sample number(s): 6167468-6167483,6167485-6167490									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	68*	61*	75-125	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	116		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	133		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103610030A	Sample number(s): 6167468-6167483,6167485-6167490									
Aldrin	0.066	U	0.066	0.17	ug/kg	118		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	79		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	82		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	93		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	129		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	89		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	88		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	89		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	85		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	118		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	132		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	91		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	115		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	94		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	124		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	89		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225974
Reported: 02/03/11 at 04:12 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103541026002A	Sample number(s): 6167468-6167490								
Antimony	0.0600 U	0.0600	0.200	mg/kg	93		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	96		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	96		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	98		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	95		82-118		
Copper	0.111 J	0.0660	0.400	mg/kg	95		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	93		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	103		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	95		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	97		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	95		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	96		78-122		
Batch number: 103541026002B	Sample number(s): 6167468-6167490								
Selenium	0.0400 U	0.0400	0.400	mg/kg	90		79-122		
Batch number: 103541026002C	Sample number(s): 6167468-6167490								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 103541026002D	Sample number(s): 6167468-6167490								
Barium	0.108 U	0.108	0.400	mg/kg	100		79-121		
Batch number: 103545708002	Sample number(s): 6167468-6167490								
Aluminum	4.84 U	4.84	19.2	mg/kg	90		61-110		
Boron	0.856 U	0.856	4.81	mg/kg	87		78-110		
Calcium	5.92 J	5.89	19.2	mg/kg	92		88-110		
Iron	4.53 U	4.53	19.2	mg/kg	89		61-110		
Lithium	0.21 U	0.21	1.9	mg/kg	101		80-120		
Magnesium	2.44 U	2.44	9.62	mg/kg	90		82-110		
Manganese	0.0750 U	0.0750	0.481	mg/kg	94		81-119		
Phosphorus	1.80 J	0.538	9.62	mg/kg	103		80-120		
Potassium	17.3 U	17.3	48.1	mg/kg	90		78-110		
Sodium	35.9 U	35.9	96.2	mg/kg	91		87-110		
Strontium	0.0596 U	0.0596	0.481	mg/kg	97		79-121		
Tin	1.23 J	0.962	9.62	mg/kg	93		90-114		
Titanium	0.365 U	0.365	0.962	mg/kg	94		80-120		
Zirconium	0.808 U	0.808	4.81	mg/kg	101		80-120		
Batch number: 103575711001	Sample number(s): 6167468-6167490								
Mercury	0.0027 U	0.0027	0.0933	mg/kg	95		88-123		
Batch number: 11007007205A	Sample number(s): 6167468-6167477								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	107		90-110		
Batch number: 11007007205B	Sample number(s): 6167478-6167482,6167484-6167490								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	107		90-110		
Batch number: 11011011201A	Sample number(s): 6167468-6167477								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11011011201B	Sample number(s): 6167478-6167482,6167484-6167490								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11013243202A	Sample number(s): 6167468-6167482,6167484-6167490								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	97		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225974
Reported: 02/03/11 at 04:12 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10354039401A	Sample number(s): 6167468-6167477								
22a pH by 9045C					100		95-105		
Batch number: 10354039401B	Sample number(s): 6167478-6167481,6167484-6167490								
22a pH by 9045C					100		95-105		
Batch number: 10354182101A	Sample number(s): 6167468-6167477								
Oxidation Reduction Potential					99		98-102		
Batch number: 10354182101B	Sample number(s): 6167478-6167481,6167484-6167490								
Oxidation Reduction Potential					99		98-102		
Batch number: 10357162402A	Sample number(s): 6167468-6167479								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10357162402B	Sample number(s): 6167480-6167490								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10355SLB026	Sample number(s): 6167468-6167483,6167485-6167490 UNSPK: 6167481								
Acenaphthene	88	88	75-115	0	30				
Acenaphthylene	90	94	49-126	4	30				
Aniline	37	26	14-114	34*	30				
Anthracene	92	92	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	90	95	65-122	5	30				
Benzo(a)pyrene	82	87	57-126	6	30				
Benzo(b)fluoranthene	81	85	59-125	4	30				
Benzo(g,h,i)perylene	78	79	59-127	2	30				
Benzo(k)fluoranthene	79	84	56-132	6	30				
Benzoic acid	45	20	10-173	78*	30				
Benzyl alcohol	94	91	55-123	3	30				
4-Bromophenyl-phenylether	88	89	67-129	2	30				
Butylbenzylphthalate	82	86	73-134	5	30				
Di-n-butylphthalate	99	94	67-123	6	30				
Carbazole	97	98	64-120	0	30				
4-Chloro-3-methylphenol	85	86	53-130	2	30				
4-Chloroaniline	49	44	23-95	11	30				
bis(2-Chloroethoxy)methane	85	85	54-117	0	30				
bis(2-Chloroethyl)ether	87	86	60-116	1	30				
bis(2-Chloroisopropyl)ether	81	79	55-142	3	30				
2-Chloronaphthalene	70	72	50-141	2	30				
2-Chlorophenol	89	88	73-121	0	30				
4-Chlorophenyl-phenylether	91	96	64-119	5	30				
Chrysene	92	98	62-128	6	30				
Dibenz(a,h)anthracene	81	83	65-125	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225974
Reported: 02/03/11 at 04:12 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenzofuran	88	92	71-112	5	30				
1,2-Dichlorobenzene	84	84	66-108	0	30				
1,3-Dichlorobenzene	85	82	63-109	4	30				
1,4-Dichlorobenzene	86	82	53-113	5	30				
3,3'-Dichlorobenzidine	52	47	25-123	11	30				
2,4-Dichlorophenol	89	91	78-117	1	30				
Diethylphthalate	85	91	66-118	7	30				
2,4-Dimethylphenol	82	75	56-130	9	30				
3,5-Dimethylphenol	96	93	70-130	3	30				
Dimethylphthalate	87	91	64-118	5	30				
4,6-Dinitro-2-methylphenol	90	79	10-148	12	30				
2,4-Dinitrophenol	58	51	20-143	14	30				
2,4-Dinitrotoluene	87	92	57-114	5	30				
2,6-Dinitrotoluene	88	92	69-123	5	30				
1,2-Diphenylhydrazine	90	87	71-129	4	30				
bis(2-Ethylhexyl)phthalate	94	96	63-122	2	30				
Fluoranthene	109	102	59-122	7	30				
Fluorene	87	92	60-125	5	30				
Hexachlorobenzene	97	94	61-111	3	30				
Hexachlorobutadiene	78	82	62-120	4	30				
Hexachlorocyclopentadiene	84	89	10-153	6	30				
Hexachloroethane	77	76	57-109	1	30				
Indeno(1,2,3-cd)pyrene	82	83	61-126	1	30				
Isophorone	84	83	51-118	1	30				
1-Methylnaphthalene	88	87	73-112	1	30				
2-Methylnaphthalene	80	83	76-114	3	30				
2-Methylphenol	90	86	47-142	5	30				
4-Methylphenol	95	89	55-126	7	30				
Naphthalene	84	86	72-116	2	30				
2-Nitroaniline	97	96	67-125	1	30				
3-Nitroaniline	77	79	59-122	3	30				
4-Nitroaniline	76	75	52-112	0	30				
Nitrobenzene	78	78	51-114	0	30				
2-Nitrophenol	86	89	74-115	4	30				
4-Nitrophenol	63	60	39-133	5	30				
N-Nitroso-di-n-propylamine	81	77	60-116	6	30				
N-Nitrosodimethylamine	93	94	47-116	1	30				
N-Nitrosodiphenylamine	92	87	86-145	5	30				
Di-n-octylphthalate	85	85	56-126	0	30				
Pentachlorophenol	82	76	17-149	8	30				
Phenanthrene	90	88	65-125	2	30				
Phenol	89	87	58-126	3	30				
Pyrene	79	83	51-151	4	30				
1,2,4-Trichlorobenzene	82	84	72-115	3	30				
2,4,5-Trichlorophenol	87	92	34-139	7	30				
2,4,6-Trichlorophenol	86	90	49-140	4	30				
Batch number: 10355SLE026	Sample number(s): 6167468-6167483,6167485-6167490 UNSPK: 6167481								
Acenaphthene	83	82	63-105	1	30				
Acenaphthylene	88	88	55-126	0	30				
Anthracene	92	88	46-136	4	30				
Benzo(a)anthracene	93	91	39-144	2	30				
Benzo(a)pyrene	86	85	34-156	1	30				

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Quality Control Summary

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Reported: 02/03/11 at 04:12 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	114	119	43-155	5	30				
Benzo(g,h,i)perylene	46	48	33-141	4	30				
Benzo(k)fluoranthene	90	88	42-144	2	30				
Butylbenzylphthalate	104	97	73-140	8	30				
Di-n-butylphthalate	104	103	78-160	1	30				
Chrysene	95	87	29-156	8	30				
Dibenz(a,h)anthracene	53	59	41-130	10	30				
Diethylphthalate	81*	81*	87-131	0	30				
Dimethylphthalate	93	91	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	169*	115	39-167	37*	30				
Fluoranthene	108	94	26-166	13	30				
Fluorene	91	90	45-121	1	30				
Indeno(1,2,3-cd)pyrene	52	56	21-143	8	30				
1-Methylnaphthalene	91	87	72-123	5	30				
2-Methylnaphthalene	82	78	28-121	4	30				
Naphthalene	88	83	61-102	6	30				
N-Nitrosodimethylamine	97	94	48-113	3	30				
Di-n-octylphthalate	128	111	40-192	15	30				
Phenanthrene	98	87	12-165	12	30				
Pyrene	96	87	15-153	10	30				
Batch number: 103620012A	Sample number(s): 6167468-6167483,6167485-6167490 UNSPK: 6167481								
2,4-D	93	69	28-161	30	35				
Dalapon	0*	24	12-86	200*	50				
2,4-DB	108	273*	20-170	87*	50				
Dicamba	65	148*	33-120	52*	50				
Dinoseb	6	16	1-44	85*	35				
2,4-DP (Dichlorprop)	115	116	55-141	1	50				
MCPA	149	160	31-184	7	50				
MCPP (Mecoprop)	0*	111	16-174	200*	50				
2,4,5-T	83	108	25-132	26	35				
2,4,5-TP	117	105	10-183	11	35				
Batch number: 110040016A	Sample number(s): 6167468,6167472 UNSPK: 6167468								
6a Perchlorate EPA 6850	110	110	80-120	0	20				
Batch number: 103560034A	Sample number(s): 6167468-6167483,6167485-6167490 UNSPK: 6167481								
PCB-1016	132	112	29-146	16	50				
PCB-1260	141	131	39-149	8	50				
Batch number: 103610030A	Sample number(s): 6167468-6167483,6167485-6167490 UNSPK: 6167481								
Aldrin	97	94	16-126	3	50				
Alpha BHC	109	64	10-129	53*	50				
Beta BHC	81	75	14-147	8	50				
Gamma BHC - Lindane	112	73	10-140	43	50				
p,p-DDD	97	100	16-163	3	50				
p,p-DDE	135	166*	18-161	20	50				
p,p-DDT	117	129	10-176	10	50				
Delta BHC	75	72	23-140	4	50				
Dieldrin	77	80	19-154	4	50				
Endosulfan I	67	73	16-137	9	50				
Endosulfan II	108	111	28-154	3	50				
Endosulfan Sulfate	117	111	21-160	5	50				

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Quality Control Summary

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Reported: 02/03/11 at 04:12 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endrin	80	80	11-149	0	50				
Endrin Aldehyde	58	59	10-148	3	35				
Endrin Ketone	94	77	22-165	19	50				
Heptachlor	73	73	13-126	0	50				
Heptachlor Epoxide	103	109	13-157	6	50				
Methoxychlor	63	63	32-147	0	50				
Batch number: 103541026002A	Sample number(s): 6167468-6167490 UNSPK: 6167481 BKG: 6167481								
Antimony	62*	56*	75-125	8	20	0.197 J	0.217	10 (1)	20
Arsenic	299*	300*	75-125	0	20	5.09	7.29	36*	20
Beryllium	188*	198*	75-125	3	20	0.589	0.770	27*	20
Cadmium	181*	179*	75-125	2	20	0.214	0.303	34* (1)	20
Chromium	213*	238*	75-125	5	20	19.0	25.4	29*	20
Cobalt	137*	142*	75-125	2	20	6.09	7.47	20	20
Copper	156*	167*	75-125	3	20	10.1	12.4	21*	20
Lead	290 (2)	369 (2)	75-125	10	20	12.8	16.9	27*	20
Nickel	183*	192*	75-125	2	20	12.8	16.5	25*	20
Silver	163*	167*	75-125	2	20	0.0934 J	0.100	7 (1)	20
Thallium	184*	185*	75-125	0	20	0.333	0.389	16 (1)	20
Vanadium	289*	314*	75-125	3	20	35.4	45.2	24*	20
Zinc	354 (2)	384 (2)	75-125	3	20	53.4	72.4	30*	20
Batch number: 103541026002B	Sample number(s): 6167468-6167490 UNSPK: 6167481 BKG: 6167481								
Selenium	91	91	75-125	0	20	0.133 J	0.116 J	14 (1)	20
Batch number: 103541026002C	Sample number(s): 6167468-6167490 UNSPK: 6167481 BKG: 6167481								
Molybdenum	169*	177*	75-125	3	20	0.781	0.911	15	20
Batch number: 103541026002D	Sample number(s): 6167468-6167490 UNSPK: 6167481 BKG: 6167481								
Barium	599 (2)	627 (2)	75-125	1	20	110	141	24*	20
Batch number: 103545708002	Sample number(s): 6167468-6167490 UNSPK: 6167481 BKG: 6167481								
Aluminum	1508 (2)	1850 (2)	75-125	4	20	13,300	13,000	2	20
Boron	93	91	84-115	0	20	3.82 J	3.78 J	1 (1)	20
Calcium	86 (2)	136 (2)	75-125	6	20	2,900	2,480	16	20
Iron	-871 (2)	1520 (2)	75-125	13	20	17,400	15,700	11	20
Lithium	100	98	82-114	0	20	15.4	14.8	4	20
Magnesium	156 (2)	302 (2)	75-125	8	20	3,130	3,050	2	20
Manganese	62 (2)	174 (2)	75-125	15	20	316	325	3	20
Phosphorus	64*	92	75-125	10	20	226	192	16	20
Potassium	123	144*	75-125	6	20	2,670	2,590	3	20
Sodium	98	95	75-125	1	20	84.7 J	81.4 J	4 (1)	20
Strontium	98	98	75-115	1	20	21.3	20.1	6	20
Tin	90	89	80-110	0	20	2.15 J	2.12 J	1 (1)	20
Titanium	288 (2)	359 (2)	75-125	5	20	1,090	1,060	3	20
Zirconium	93	93	75-125	1	20	2.01 J	2.39 J	17 (1)	20
Batch number: 103575711001	Sample number(s): 6167468-6167490 UNSPK: 6167481 BKG: 6167481								
Mercury	111	101	65-135	12	20	0.0028 U	0.0027 U	0 (1)	20
Batch number: 11007007205A	Sample number(s): 6167468-6167477 UNSPK: 6167477 BKG: 6167477								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225974
Reported: 02/03/11 at 04:12 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
11a Anions by 300.0 - Fluoride	82		80-120			1.5	1.0	38* (1)	20
Batch number: 11007007205B	Sample number(s): 6167478-6167482,6167484-6167490 UNSPK: 6167481 BKG: 6167481								
11a Anions by 300.0 - Fluoride	77*		80-120			2.5	2.3	4 (1)	20
Batch number: 11011011201A	Sample number(s): 6167468-6167477 UNSPK: 6167468 BKG: 6167468								
7a Perchlorate EPA 314.0	104		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11011011201B	Sample number(s): 6167478-6167482,6167484-6167490 UNSPK: 6167481 BKG: 6167481								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11013243202A	Sample number(s): 6167468-6167482,6167484-6167490 UNSPK: 6167481 BKG: 6167481								
3a Cr VI by EPA 7199	80		75-125			0.54 J	0.53 J	2 (1)	20
Batch number: 10354039401A	Sample number(s): 6167468-6167477 BKG: 6167468								
22a pH by 9045C						7.19	7.24	1	1
Batch number: 10354039401B	Sample number(s): 6167478-6167481,6167484-6167490 BKG: 6167481								
22a pH by 9045C						7.23	7.14	1	1
Batch number: 10354182101A	Sample number(s): 6167468-6167477 BKG: 6167468								
Oxidation Reduction Potential						437	427	2	6
Batch number: 10354182101B	Sample number(s): 6167478-6167481,6167484-6167490 BKG: 6167481								
Oxidation Reduction Potential						448	463	3	6
Batch number: 10357162402A	Sample number(s): 6167468-6167479 BKG: 6167471								
28a Moisture Content by 160.3						25.8	24.4	6	20
Batch number: 10357162402B	Sample number(s): 6167480-6167490 BKG: 6167481								
28a Moisture Content by 160.3						6.9	6.8	2	20
28a Moisture Content by 160.3						6.9	6.8	2	20
28a Moisture Content by 160.3						6.9	6.8	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10355SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6167468	89	88	89	77	88	66
6167469	89	90	94	78	88	67
6167470	87	87	88	70	82	73
6167471	89	84	99	78	89	67
6167472	81	80	90	73	85	70
6167473	86	82	88	75	83	66
6167474	88	83	86	74	85	70

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225974
Reported: 02/03/11 at 04:12 PM

Surrogate Quality Control

6167475	77	77	77	69	79	68
6167476	89	84	87	75	88	80
6167477	89	82	89	78	87	77
6167478	85	76	92	74	84	71
6167479	84	83	86	78	89	66
6167480	86	83	85	76	89	83
6167481	88	89	92	80	83	76
6167482	89	91	92	75	88	72
6167483	91	89	94	77	85	73
6167485	85	79	86	79	89	79
6167486	86	82	83	75	87	80
6167487	84	81	85	75	90	80
6167488	88	90	80	80	88	84
6167489	90	90	87	80	88	82
6167490	87	92	82	81	87	82
Blank	90	94	102	82	85	78
LCS	90	91	98	79	87	74
MS	89	91	92	75	88	72
MSD	91	89	94	77	85	73
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10355SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6167468	90	78	76
6167469	92	83	84
6167470	91	81	86
6167471	91	80	80
6167472	94	85	87
6167473	96	85	84
6167474	96	84	85
6167475	90	83	84
6167476	98	83	85
6167477	92	84	86
6167478	91	83	83
6167479	98	85	86
6167480	91	80	93
6167481	93	85	87
6167482	90	80	81
6167483	85	78	83
6167485	89	79	83
6167486	93	83	85
6167487	96	85	92
6167488	83	72	67
6167489	115	75	88
6167490	86	76	75
Blank	86	80	88
LCS	91	83	90
MS	90	80	81
MSD	85	78	83
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103560034A

	Tetrachloro-m-xylene	Decachlorobiphenyl

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Reported: 02/03/11 at 04:12 PM

Surrogate Quality Control

6167468	91	105
6167469	82	89
6167470	95	95
6167471	75	78
6167472	107	97
6167473	78	89
6167474	104	101
6167475	85	84
6167476	110	108
6167477	100	262*
6167478	89	145*
6167479	96	110
6167480	110	58
6167481	108	118
6167482	121	125*
6167483	100	114
6167485	137	91
6167486	94	87
6167487	118	105
6167488	111	96
6167489	151*	124*
6167490	83	60
Blank	140*	99
LCS	120	100
LCSD	92	95
MS	121	125*
MSD	100	114
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103610030A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6167468	67	188*
6167469	51	241*
6167470	48*	83
6167471	75	190*
6167472	76	176*
6167473	75	79
6167474	68	78
6167475	55	52
6167476	52	68
6167477	56	0*
6167478	88	216*
6167479	90	87
6167480	101	0*
6167481	69	77
6167482	63	50
6167483	68	80
6167485	62	0*
6167486	76	0*
6167487	54	0*
6167488	68	81
6167489	52	29
6167490	63	289*
Blank	76	103

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Reported: 02/03/11 at 04:12 PM

Surrogate Quality Control

LCS	84	111
MS	63	50
MSD	68	80
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103620012A

	2,4-Dichlorophenylacetic acid
6167468	107
6167469	93
6167470	130
6167471	82
6167472	92
6167473	76
6167474	79
6167475	83
6167476	115
6167477	97
6167478	42
6167479	64
6167480	103
6167481	88
6167482	106
6167483	79
6167485	122
6167486	87
6167487	125
6167488	70
6167489	105
6167490	107
Blank	100
LCS	104
MS	106
MSD	79
Limits:	36-156

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13013 1225974 61674468-90

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP07-SA5B-QC-121610	12.16.10	1129	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									DUP
EB04-SA5B-121610	12.16.10	1215	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB04-SA5B-121610	12.16.10	1215	water	none	1-500 ml poly							X	X			X									X				rinsate
EB04-SA5B-121610	12.16.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	4-40 mL clear VOA vials															X							X		rinsate
EB16-SA5B-121610	12.16.10	1120	water	HCl	3-40 mL clear VOA vials				X																				rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	1-250 mL glass																X								rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	4-1 liter ambers					X												X	X			X			rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	1-250 mL amber																				X				rinsate
EB16-SA5B-121610	12.16.10	1120	water	NaOH	1-500 ml poly																			X					rinsate
SED-011-SIV-SD-0.0-0.5	12.16.10	1418	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SED-013-SIV-SD-0.0-0.5	12.16.10	1526	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-017-SIV-SD-0.0-0.5	12.16.10	1045	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-019-SIV-SD-0.0-0.5	12.16.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-020-SIV-SD-0.0-0.5	12.16.10	1140	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-040-SA5B-SB-1.5-2.5	12.16.10	1007	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA5B-SB-2.0	12.16.10	1004	soil	none	5 Encore Samplers	X	X		X																				
SL-040-SA5B-SB-9.0-10.0	12.16.10	1015	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA5B-SB-9.5	12.16.10	1011	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-1.5-2.5	12.16.10	1144	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-041-SA5B-SB-2.0	12.16.10	1140	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-8.5	12.16.10	1148	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-8.0-9.0	12.16.10	1155	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-2.5-3.5	12.16.10	1410	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-3.0	12.16.10	1404	soil	none	5 Encore Samplers	X	X		X																				
SL-042-SA5B-SB-8.0-9.0	12.16.10	1418	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-8.5	12.16.10	1413	soil	none	5 Encore Samplers	X	X		X																				
SL-043-SA5B-SB-2.5-3.5	12.16.10	1549	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-043-SA5B-SB-3.0	12.16.10	1545	soil	none	5 Encore Samplers	X	X		X																				
SL-147-SA5B-SS-0.0-0.5	12.16.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-169-SA5B-SS-0.0-0.5	12.16.10	1337	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-172-SA5B-SS-0.0-0.5	12.16.10	1352	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-173-SA5B-SS-0.0-0.5	12.16.10	1312	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-176-SA5B-SS-0.0-0.5	12.16.10	0925	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-178-SA5B-SS-0.0-0.5	12.16.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-186-SA5B-SS-0.0-0.5	12.16.10	1056	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-187-SA5B-SS-0.0-0.5	12.16.10	1119	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-189-SA5B-SS-0.0-0.5MS	12.16.10	1125	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X									MS/MSD
SL-192-SA5B-SS-0.0-0.5	12.16.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-194-SA5B-SS-0.0-0.5	12.16.10	1340	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-196-SA5B-SS-0.0-0.5	12.16.10	1312	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-198-SA5B-SS-0.0-0.5	12.16.10	1059	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-199-SA5B-SS-0.0-0.5	12.16.10	1323	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-202-SA5B-SS-0.0-0.5	12.16.10	1423	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-205-SA5B-SS-0.0-0.5	12.16.10	1432	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-284-SA5B-SS-0.0-0.5	12.16.10	1413	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-285-SA5B-SS-0.0-0.5	12.16.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-286-SA5B-SS-0.0-0.5	12.16.10	0902	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-304-SA5B-SS-0.0-0.5	12.16.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-305-SA5B-SS-0.0-0.5	12.16.10	1450	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
TB-121610	12.16.10	0800	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.16.10 1700		12/17/10 940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No. 00732992		No. of coolers = 6

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/17/2010
Group Number: 1225976
SDG: DX026
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SED-011-SIV-SD-0.0-0.5 Sediment	6167492
SED-013-SIV-SD-0.0-0.5 Sediment	6167493
SED-017-SIV-SD-0.0-0.5 Sediment	6167494
SED-019-SIV-SD-0.0-0.5 Sediment	6167495
SED-020-SIV-SD-0.0-0.5 Sediment	6167496
SL-147-SA5B-SS-0.0-0.5 Soil	6167497
SL-169-SA5B-SS-0.0-0.5 Soil	6167498
SL-172-SA5B-SS-0.0-0.5 Soil	6167499
SL-173-SA5B-SS-0.0-0.5 Soil	6167500
SL-176-SA5B-SS-0.0-0.5 Soil	6167501
SL-178-SA5B-SS-0.0-0.5 Soil	6167502
SL-186-SA5B-SS-0.0-0.5 Soil	6167503
SL-187-SA5B-SS-0.0-0.5 Soil	6167504
SL-189-SA5B-SS-0.0-0.5 Soil	6167505
SL-189-SA5B-SS-0.0-0.5MS Soil	6167506
SL-189-SA5B-SS-0.0-0.5MSD Soil	6167507
SL-192-SA5B-SS-0.0-0.5 Soil	6167508
SL-194-SA5B-SS-0.0-0.5 Soil	6167509
SL-196-SA5B-SS-0.0-0.5 Soil	6167510
SL-198-SA5B-SS-0.0-0.5 Soil	6167511
SL-199-SA5B-SS-0.0-0.5 Soil	6167512
SL-202-SA5B-SS-0.0-0.5 Soil	6167513

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

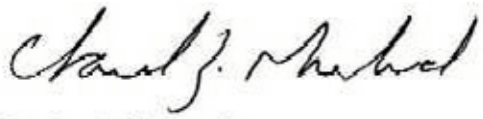

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-011-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-011-SIV-SD-0.0-0.5

LLI Sample # SW 6167492
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD011 SDG#: DX026-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-011-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-011-SIV-SD-0.0-0.5

LLI Sample # SW 6167492
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Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD011 SDG#: DX026-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.120	J	0.0259	1.10	1
11031	12378-PeCDD	40321-76-4	0.432	JB	0.0523	5.51	1
11031	123478-HxCDD	39227-28-6	0.511	JB	0.0213	5.51	1
11031	123678-HxCDD	57653-85-7	1.40	JB	0.0225	5.51	1
11031	123789-HxCDD	19408-74-3	1.06	JB	0.0219	5.51	1
11031	1234678-HpCDD	35822-46-9	32.2	B	0.0462	5.51	1
11031	OCDD	3268-87-9	314	B	0.0649	11.0	1
11031	2378-TCDF	51207-31-9	0.219	JB	0.0351	1.10	1
11031	12378-PeCDF	57117-41-6	0.307	JB	0.0160	5.51	1
11031	23478-PeCDF	57117-31-4	0.515	JB	0.0161	5.51	1
11031	123478-HxCDF	70648-26-9	0.391	JB	0.0192	5.51	1
11031	123678-HxCDF	57117-44-9	0.342	JB	0.0173	5.51	1
11031	123789-HxCDF	72918-21-9	0.132	JB	0.0209	5.51	1
11031	234678-HxCDF	60851-34-5	0.436	JB	0.0191	5.51	1
11031	1234678-HpCDF	67562-39-4	5.49	JB	0.0166	5.51	1
11031	1234789-HpCDF	55673-89-7	0.462	JB	0.0233	5.51	1
11031	OCDF	39001-02-0	10.8	JB	0.0277	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Sample Description: **SED-011-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-011-SIV-SD-0.0-0.5

LLI Sample # SW 6167492
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD011 SDG#: DX026-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-011-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-011-SIV-SD-0.0-0.5

LLI Sample # SW 6167492
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD011 SDG#: DX026-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 04:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-013-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167493
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD013 SDG#: DX026-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-013-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167493
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD013 SDG#: DX026-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0815	JQ	0.0213	1.15	1
11031	12378-PeCDD	40321-76-4	0.847	JBQ	0.0495	5.75	1
11031	123478-HxCDD	39227-28-6	1.48	JB	0.0316	5.75	1
11031	123678-HxCDD	57653-85-7	3.74	JB	0.0328	5.75	1
11031	123789-HxCDD	19408-74-3	3.00	JB	0.0314	5.75	1
11031	1234678-HpCDD	35822-46-9	93.0	B	0.0838	5.75	1
11031	OCDD	3268-87-9	869	B	0.0698	11.5	1
11031	2378-TCDF	51207-31-9	0.355	JB	0.0380	1.15	1
11031	12378-PeCDF	57117-41-6	0.551	JB	0.0180	5.75	1
11031	23478-PeCDF	57117-31-4	0.680	JB	0.0182	5.75	1
11031	123478-HxCDF	70648-26-9	0.855	JB	0.0260	5.75	1
11031	123678-HxCDF	57117-44-9	0.743	JB	0.0234	5.75	1
11031	123789-HxCDF	72918-21-9	0.259	JB	0.0272	5.75	1
11031	234678-HxCDF	60851-34-5	0.972	JB	0.0254	5.75	1
11031	1234678-HpCDF	67562-39-4	14.3	B	0.0260	5.75	1
11031	1234789-HpCDF	55673-89-7	1.11	JB	0.0385	5.75	1
11031	OCDF	39001-02-0	28.3	B	0.0289	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SED-013-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167493
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD013 SDG#: DX026-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-013-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-013-SIV-SD-0.0-0.5

LLI Sample # SW 6167493
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:26 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD013 SDG#: DX026-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 05:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-017-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167494
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD017 SDG#: DX026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-017-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167494
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD017 SDG#: DX026-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.190	J	0.0263	1.13	1
11031	12378-PeCDD	40321-76-4	0.963	JB	0.0547	5.65	1
11031	123478-HxCDD	39227-28-6	4.07	JB	0.0350	5.65	1
11031	123678-HxCDD	57653-85-7	15.1	B	0.0363	5.65	1
11031	123789-HxCDD	19408-74-3	5.15	JB	0.0353	5.65	1
11031	1234678-HpCDD	35822-46-9	419	B	0.139	5.65	1
11031	OCDD	3268-87-9	3,550	B	0.119	11.3	1
11031	2378-TCDF	51207-31-9	0.501	JB	0.0533	1.13	1
11031	12378-PeCDF	57117-41-6	0.661	JB	0.0247	5.65	1
11031	23478-PeCDF	57117-31-4	1.11	JB	0.0245	5.65	1
11031	123478-HxCDF	70648-26-9	1.31	JB	0.0347	5.65	1
11031	123678-HxCDF	57117-44-9	1.35	JB	0.0314	5.65	1
11031	123789-HxCDF	72918-21-9	0.332	JB	0.0388	5.65	1
11031	234678-HxCDF	60851-34-5	2.20	JB	0.0345	5.65	1
11031	1234678-HpCDF	67562-39-4	38.5	B	0.0438	5.65	1
11031	1234789-HpCDF	55673-89-7	3.16	JB	0.0563	5.65	1
11031	OCDF	39001-02-0	82.4	B	0.0356	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SED-017-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167494
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD017 SDG#: DX026-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-017-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-017-SIV-SD-0.0-0.5

LLI Sample # SW 6167494
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:45 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD017 SDG#: DX026-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 06:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-019-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167495
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD019 SDG#: DX026-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	25.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-019-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167495
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD019 SDG#: DX026-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	2.18 Q	0.107	1.35	1
11031	12378-PeCDD	40321-76-4	4.86 JBQ	0.240	6.74	1
11031	123478-HxCDD	39227-28-6	16.0 B	0.173	6.74	1
11031	123678-HxCDD	57653-85-7	62.8 B	0.173	6.74	1
11031	123789-HxCDD	19408-74-3	26.7 B	0.177	6.74	1
11031	1234678-HpCDD	35822-46-9	1,720 B	0.713	6.74	1
11031	OCDD	3268-87-9	24,600 EB	0.396	13.5	1
11031	2378-TCDF	51207-31-9	8.60 B	0.220	1.35	1
11650	2378-TCDF-Conf	51207-31-9	9.59 B	0.123	1.35	1
11031	12378-PeCDF	57117-41-6	18.1 B	0.0740	6.74	1
11031	23478-PeCDF	57117-31-4	9.60 B	0.0708	6.74	1
11031	123478-HxCDF	70648-26-9	11.8 B	0.150	6.74	1
11031	123678-HxCDF	57117-44-9	11.4 B	0.138	6.74	1
11031	123789-HxCDF	72918-21-9	2.48 JB	0.153	6.74	1
11031	234678-HxCDF	60851-34-5	13.7 B	0.138	6.74	1
11031	1234678-HpCDF	67562-39-4	239 B	0.165	6.74	1
11031	1234789-HpCDF	55673-89-7	21.9 B	0.196	6.74	1
11031	OCDF	39001-02-0	703 B	0.148	13.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	74	21 - 178

*=This limit was used in the evaluation of the final result

Sample Description: **SED-019-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167495
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD019 SDG#: DX026-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SED-019-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-019-SIV-SD-0.0-0.5

LLI Sample # SW 6167495
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:30 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD019 SDG#: DX026-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 18:28	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11008001	02/04/2011 16:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-020-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167496
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD020 SDG#: DX026-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-020-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167496
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD020 SDG#: DX026-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.284	JQ	0.0353	1.09	1
11031	12378-PeCDD	40321-76-4	1.07	JB	0.0914	5.43	1
11031	123478-HxCDD	39227-28-6	2.51	JB	0.0601	5.43	1
11031	123678-HxCDD	57653-85-7	10.9	B	0.0630	5.43	1
11031	123789-HxCDD	19408-74-3	5.57	B	0.0609	5.43	1
11031	1234678-HpCDD	35822-46-9	293	B	0.214	5.43	1
11031	OCDD	3268-87-9	2,980	B	0.143	10.9	1
11031	2378-TCDF	51207-31-9	0.492	JBQ	0.0529	1.09	1
11031	12378-PeCDF	57117-41-6	0.971	JB	0.0286	5.43	1
11031	23478-PeCDF	57117-31-4	0.802	JB	0.0286	5.43	1
11031	123478-HxCDF	70648-26-9	1.31	JB	0.0466	5.43	1
11031	123678-HxCDF	57117-44-9	1.40	JB	0.0440	5.43	1
11031	123789-HxCDF	72918-21-9	0.322	JB	0.0536	5.43	1
11031	234678-HxCDF	60851-34-5	2.26	JB	0.0448	5.43	1
11031	1234678-HpCDF	67562-39-4	36.6	B	0.158	5.43	1
11031	1234789-HpCDF	55673-89-7	4.32	JBQ	0.210	5.43	1
11031	OCDF	39001-02-0	87.8	B	0.0850	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-020-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167496
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD020 SDG#: DX026-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SED-020-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-020-SIV-SD-0.0-0.5

LLI Sample # SW 6167496
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD020 SDG#: DX026-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 19:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-147-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167497
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL147 SDG#: DX026-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-147-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167497
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL147 SDG#: DX026-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.141	JQ	0.0318	1.14	1
11031	12378-PeCDD	40321-76-4	1.19	JB	0.0800	5.72	1
11031	123478-HxCDD	39227-28-6	2.06	JBQ	0.0596	5.72	1
11031	123678-HxCDD	57653-85-7	5.50	JB	0.0612	5.72	1
11031	123789-HxCDD	19408-74-3	3.99	JB	0.0611	5.72	1
11031	1234678-HpCDD	35822-46-9	153	B	0.131	5.72	1
11031	OCDD	3268-87-9	1,760	B	0.131	11.4	1
11031	2378-TCDF	51207-31-9	0.535	JB	0.0629	1.14	1
11031	12378-PeCDF	57117-41-6	2.05	JB	0.0294	5.72	1
11031	23478-PeCDF	57117-31-4	1.02	JB	0.0284	5.72	1
11031	123478-HxCDF	70648-26-9	1.30	JBQ	0.0441	5.72	1
11031	123678-HxCDF	57117-44-9	1.39	JB	0.0423	5.72	1
11031	123789-HxCDF	72918-21-9	0.445	JB	0.0497	5.72	1
11031	234678-HxCDF	60851-34-5	1.61	JB	0.0428	5.72	1
11031	1234678-HpCDF	67562-39-4	26.4	B	0.133	5.72	1
11031	1234789-HpCDF	55673-89-7	2.38	JB	0.148	5.72	1
11031	OCDF	39001-02-0	89.6	B	0.0686	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-147-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167497
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL147 SDG#: DX026-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-147-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA5B-SS-0.0-0.5

LLI Sample # SW 6167497
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL147 SDG#: DX026-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 20:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-169-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167498
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL169 SDG#: DX026-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167498
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL169 SDG#: DX026-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0922	JQ	0.0341	1.13	1
11031	12378-PeCDD	40321-76-4	1.26	JB	0.0738	5.67	1
11031	123478-HxCDD	39227-28-6	2.30	JB	0.0604	5.67	1
11031	123678-HxCDD	57653-85-7	6.65	B	0.0639	5.67	1
11031	123789-HxCDD	19408-74-3	4.72	JB	0.0608	5.67	1
11031	1234678-HpCDD	35822-46-9	178	B	0.172	5.67	1
11031	OCDD	3268-87-9	2,180	B	0.148	11.3	1
11031	2378-TCDF	51207-31-9	0.425	JB	0.0634	1.13	1
11031	12378-PeCDF	57117-41-6	1.09	JB	0.0310	5.67	1
11031	23478-PeCDF	57117-31-4	1.00	JB	0.0297	5.67	1
11031	123478-HxCDF	70648-26-9	1.27	JB	0.0475	5.67	1
11031	123678-HxCDF	57117-44-9	1.31	JB	0.0452	5.67	1
11031	123789-HxCDF	72918-21-9	0.642	JBQ	0.0514	5.67	1
11031	234678-HxCDF	60851-34-5	1.49	JB	0.0475	5.67	1
11031	1234678-HpCDF	67562-39-4	24.8	B	0.134	5.67	1
11031	1234789-HpCDF	55673-89-7	2.36	JB	0.169	5.67	1
11031	OCDF	39001-02-0	108	B	0.0830	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-169-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167498
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL169 SDG#: DX026-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-169-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA5B-SS-0.0-0.5

LLI Sample # SW 6167498
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:37 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL169 SDG#: DX026-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 21:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167499
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL172 SDG#: DX026-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167499
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL172 SDG#: DX026-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.142	JQ	0.0287	1.06	1
11031	12378-PeCDD	40321-76-4	0.883	JB	0.0667	5.30	1
11031	123478-HxCDD	39227-28-6	1.51	JB	0.0430	5.30	1
11031	123678-HxCDD	57653-85-7	3.39	JB	0.0449	5.30	1
11031	123789-HxCDD	19408-74-3	3.75	JB	0.0447	5.30	1
11031	1234678-HpCDD	35822-46-9	83.4	B	0.125	5.30	1
11031	OCDD	3268-87-9	1,390	B	0.101	10.6	1
11031	2378-TCDF	51207-31-9	0.225	JBQ	0.0484	1.06	1
11031	12378-PeCDF	57117-41-6	0.455	JB	0.0238	5.30	1
11031	23478-PeCDF	57117-31-4	0.466	JB	0.0229	5.30	1
11031	123478-HxCDF	70648-26-9	0.536	JB	0.0403	5.30	1
11031	123678-HxCDF	57117-44-9	0.670	JB	0.0375	5.30	1
11031	123789-HxCDF	72918-21-9	0.474	JB	0.0454	5.30	1
11031	234678-HxCDF	60851-34-5	0.775	JB	0.0373	5.30	1
11031	1234678-HpCDF	67562-39-4	11.0	B	0.0931	5.30	1
11031	1234789-HpCDF	55673-89-7	1.02	JB	0.119	5.30	1
11031	OCDF	39001-02-0	33.2	B	0.0642	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	103	26 - 152
13C12-123678-HxCDF	105	26 - 123
13C12-234678-HxCDF	104	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	99	26 - 138
13C12-OCDF	90	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167499
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL172 SDG#: DX026-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SS-0.0-0.5

LLI Sample # SW 6167499
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:52 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL172 SDG#: DX026-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 22:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167500
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL173 SDG#: DX026-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-173-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167500
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL173 SDG#: DX026-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0963 JQ	0.0265	1.07	1
11031	12378-PeCDD	40321-76-4	1.41 JB	0.0727	5.33	1
11031	123478-HxCDD	39227-28-6	3.41 JB	0.0719	5.33	1
11031	123678-HxCDD	57653-85-7	16.6 B	0.0735	5.33	1
11031	123789-HxCDD	19408-74-3	9.19 B	0.0733	5.33	1
11031	1234678-HpCDD	35822-46-9	563 B	0.373	5.33	1
11031	OCDD	3268-87-9	16,200 EB	0.248	10.7	1
11031	2378-TCDF	51207-31-9	0.216 JB	0.0439	1.07	1
11031	12378-PeCDF	57117-41-6	0.574 JB	0.0248	5.33	1
11031	23478-PeCDF	57117-31-4	0.721 JB	0.0245	5.33	1
11031	123478-HxCDF	70648-26-9	2.02 JB	0.0419	5.33	1
11031	123678-HxCDF	57117-44-9	0.747 JB	0.0397	5.33	1
11031	123789-HxCDF	72918-21-9	0.827 JB	0.0489	5.33	1
11031	234678-HxCDF	60851-34-5	1.22 JB	0.0396	5.33	1
11031	1234678-HpCDF	67562-39-4	30.5 B	0.0897	5.33	1
11031	1234789-HpCDF	55673-89-7	1.47 JB	0.129	5.33	1
11031	OCDF	39001-02-0	99.5 B	0.0630	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	96	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	96	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-173-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167500
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL173 SDG#: DX026-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	90	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-173-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SS-0.0-0.5

LLI Sample # SW 6167500
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL173 SDG#: DX026-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/21/2011 23:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167501
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL176 SDG#: DX026-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167501
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL176 SDG#: DX026-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0734	U	0.0734	1.05	1
11031	12378-PeCDD	40321-76-4	1.08	JBQ	0.249	5.26	1
11031	123478-HxCDD	39227-28-6	1.58	JBQ	0.155	5.26	1
11031	123678-HxCDD	57653-85-7	5.20	JB	0.158	5.26	1
11031	123789-HxCDD	19408-74-3	3.59	JB	0.158	5.26	1
11031	1234678-HpCDD	35822-46-9	130	B	0.216	5.26	1
11031	OCDD	3268-87-9	1,380	B	0.177	10.5	1
11031	2378-TCDF	51207-31-9	6.42	B	0.261	1.05	1
11650	2378-TCDF-Conf	51207-31-9	6.28	B	0.0780	1.05	1
11031	12378-PeCDF	57117-41-6	23.0	B	0.103	5.26	1
11031	23478-PeCDF	57117-31-4	4.69	JB	0.103	5.26	1
11031	123478-HxCDF	70648-26-9	4.68	JB	0.103	5.26	1
11031	123678-HxCDF	57117-44-9	3.10	JB	0.0989	5.26	1
11031	123789-HxCDF	72918-21-9	1.31	JBQ	0.115	5.26	1
11031	234678-HxCDF	60851-34-5	2.46	JB	0.105	5.26	1
11031	1234678-HpCDF	67562-39-4	15.8	B	0.109	5.26	1
11031	1234789-HpCDF	55673-89-7	1.98	JB	0.134	5.26	1
11031	OCDF	39001-02-0	35.8	B	0.0771	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-2378-TCDF-Conf	77	24 - 169
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-176-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167501
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL176 SDG#: DX026-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-176-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SS-0.0-0.5

LLI Sample # SW 6167501
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL176 SDG#: DX026-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 00:08	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11008001	02/04/2011 17:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-178-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167502
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL178 SDG#: DX026-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	22.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-178-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167502
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL178 SDG#: DX026-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.76 Q	0.282	1.28	1
11031	12378-PeCDD	40321-76-4	11.2 B	0.401	6.42	1
11031	123478-HxCDD	39227-28-6	19.7 B	0.245	6.42	1
11031	123678-HxCDD	57653-85-7	61.1 B	0.260	6.42	1
11031	123789-HxCDD	19408-74-3	43.2 B	0.244	6.42	1
11031	1234678-HpCDD	35822-46-9	1,450 B	0.591	6.42	1
11031	OCDD	3268-87-9	15,300 EB	0.571	12.8	1
11031	2378-TCDF	51207-31-9	2.68 B	0.378	1.28	1
11650	2378-TCDF-Conf	51207-31-9	2.68 B	0.127	1.28	1
11031	12378-PeCDF	57117-41-6	6.59 B	0.169	6.42	1
11031	23478-PeCDF	57117-31-4	5.60 JBQ	0.161	6.42	1
11031	123478-HxCDF	70648-26-9	10.3 B	0.202	6.42	1
11031	123678-HxCDF	57117-44-9	10.9 B	0.192	6.42	1
11031	123789-HxCDF	72918-21-9	2.81 JB	0.214	6.42	1
11031	234678-HxCDF	60851-34-5	11.5 B	0.197	6.42	1
11031	1234678-HpCDF	67562-39-4	213 B	0.221	6.42	1
11031	1234789-HpCDF	55673-89-7	15.8 B	0.246	6.42	1
11031	OCDF	39001-02-0	595 B	0.188	12.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	75	21 - 178

*=This limit was used in the evaluation of the final result

Sample Description: **SL-178-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167502
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL178 SDG#: DX026-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-123478-HxCDF		84	26 - 152			
13C12-123678-HxCDF		83	26 - 123			
13C12-234678-HxCDF		86	28 - 136			
13C12-123789-HxCDF		87	29 - 147			
13C12-1234678-HpCDF		83	28 - 143			
13C12-1234789-HpCDF		89	26 - 138			
13C12-OCDF		89	17 - 157			
13C12-1278-TCDD (CRS)		80	35 - 197			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-178-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SS-0.0-0.5

LLI Sample # SW 6167502
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL178 SDG#: DX026-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 04:07	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11008001	02/04/2011 18:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-186-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167503
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:56 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL186 SDG#: DX026-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-186-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167503
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:56 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL186 SDG#: DX026-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.123	JQ	0.0592	1.07	1
11031	12378-PeCDD	40321-76-4	0.507	JBQ	0.144	5.37	1
11031	123478-HxCDD	39227-28-6	2.16	JB	0.136	5.37	1
11031	123678-HxCDD	57653-85-7	3.51	JB	0.140	5.37	1
11031	123789-HxCDD	19408-74-3	2.68	JB	0.140	5.37	1
11031	1234678-HpCDD	35822-46-9	171	B	0.265	5.37	1
11031	OCDD	3268-87-9	1,480	B	0.217	10.7	1
11031	2378-TCDF	51207-31-9	0.191	JBQ	0.133	1.07	1
11031	12378-PeCDF	57117-41-6	0.878	JB	0.0600	5.37	1
11031	23478-PeCDF	57117-31-4	0.555	JB	0.0576	5.37	1
11031	123478-HxCDF	70648-26-9	0.511	JB	0.0850	5.37	1
11031	123678-HxCDF	57117-44-9	0.616	JB	0.0808	5.37	1
11031	123789-HxCDF	72918-21-9	0.419	JB	0.0992	5.37	1
11031	234678-HxCDF	60851-34-5	0.718	JBQ	0.0813	5.37	1
11031	1234678-HpCDF	67562-39-4	13.1	B	0.103	5.37	1
11031	1234789-HpCDF	55673-89-7	1.31	JB	0.131	5.37	1
11031	OCDF	39001-02-0	65.8	B	0.108	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-186-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167503
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:56 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL186 SDG#: DX026-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-186-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SS-0.0-0.5

LLI Sample # SW 6167503
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:56 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL186 SDG#: DX026-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 05:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402A	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167504
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:19 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL187 SDG#: DX026-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167504
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:19 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL187 SDG#: DX026-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.876 J	0.0702	1.06	1
11031	12378-PeCDD	40321-76-4	6.98 B	0.183	5.30	1
11031	123478-HxCDD	39227-28-6	15.6 B	0.161	5.30	1
11031	123678-HxCDD	57653-85-7	31.0 B	0.169	5.30	1
11031	123789-HxCDD	19408-74-3	27.1 B	0.161	5.30	1
11031	1234678-HpCDD	35822-46-9	1,340 B	0.600	5.30	1
11031	OCDD	3268-87-9	23,500 EB	0.434	10.6	1
11031	2378-TCDF	51207-31-9	0.228 JB	0.136	1.06	1
11031	12378-PeCDF	57117-41-6	1.60 JB	0.0660	5.30	1
11031	23478-PeCDF	57117-31-4	2.32 JB	0.0665	5.30	1
11031	123478-HxCDF	70648-26-9	9.78 B	0.172	5.30	1
11031	123678-HxCDF	57117-44-9	60.4 B	0.162	5.30	1
11031	123789-HxCDF	72918-21-9	1.65 JB	0.198	5.30	1
11031	234678-HxCDF	60851-34-5	18.8 B	0.172	5.30	1
11031	1234678-HpCDF	67562-39-4	334 B	0.166	5.30	1
11031	1234789-HpCDF	55673-89-7	30.3 B	0.217	5.30	1
11031	OCDF	39001-02-0	1,880 B	0.181	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	87	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167504
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:19 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL187 SDG#: DX026-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SS-0.0-0.5

LLI Sample # SW 6167504
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:19 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL187 SDG#: DX026-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 06:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167505
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167505
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0470	JQ	0.0424	1.07	1
11031	12378-PeCDD	40321-76-4	0.414	JBQ	0.0788	5.37	1
11031	123478-HxCDD	39227-28-6	0.542	JBQ	0.0902	5.37	1
11031	123678-HxCDD	57653-85-7	1.68	JB	0.0914	5.37	1
11031	123789-HxCDD	19408-74-3	1.86	JB	0.0857	5.37	1
11031	1234678-HpCDD	35822-46-9	38.3	B	0.139	5.37	1
11031	OCDD	3268-87-9	508	B	0.115	10.7	1
11031	2378-TCDF	51207-31-9	0.102	JB	0.0725	1.07	1
11031	12378-PeCDF	57117-41-6	0.459	JB	0.0394	5.37	1
11031	23478-PeCDF	57117-31-4	0.379	JBQ	0.0378	5.37	1
11031	123478-HxCDF	70648-26-9	0.307	JBQ	0.0734	5.37	1
11031	123678-HxCDF	57117-44-9	0.372	JBQ	0.0670	5.37	1
11031	123789-HxCDF	72918-21-9	0.472	JBQ	0.0800	5.37	1
11031	234678-HxCDF	60851-34-5	0.351	JB	0.0725	5.37	1
11031	1234678-HpCDF	67562-39-4	5.44	B	0.0787	5.37	1
11031	1234789-HpCDF	55673-89-7	0.570	JB	0.111	5.37	1
11031	OCDF	39001-02-0	18.0	B	0.0758	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167505
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167505
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 06:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167506
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167506
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.3		0.0475	1.07	1
11031	12378-PeCDD	40321-76-4	112	B	0.0914	5.37	1
11031	123478-HxCDD	39227-28-6	119	B	0.0778	5.37	1
11031	123678-HxCDD	57653-85-7	119	B	0.0796	5.37	1
11031	123789-HxCDD	19408-74-3	123	B	0.0799	5.37	1
11031	1234678-HpCDD	35822-46-9	162	B	0.122	5.37	1
11031	OCDD	3268-87-9	867	B	0.150	10.7	1
11031	2378-TCDF	51207-31-9	24.1	B	0.0708	1.07	1
11031	12378-PeCDF	57117-41-6	118	B	0.0371	5.37	1
11031	23478-PeCDF	57117-31-4	118	B	0.0373	5.37	1
11031	123478-HxCDF	70648-26-9	118	B	0.0958	5.37	1
11031	123678-HxCDF	57117-44-9	117	B	0.0893	5.37	1
11031	123789-HxCDF	72918-21-9	120	B	0.116	5.37	1
11031	234678-HxCDF	60851-34-5	117	B	0.0937	5.37	1
11031	1234678-HpCDF	67562-39-4	124	B	0.0912	5.37	1
11031	1234789-HpCDF	55673-89-7	119	B	0.114	5.37	1
11031	OCDF	39001-02-0	266	B	0.0823	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	87	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167506
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167506
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 07:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167507
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167507
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.1		0.0712	1.07	1
11031	12378-PeCDD	40321-76-4	111	B	0.0854	5.37	1
11031	123478-HxCDD	39227-28-6	118	B	0.118	5.37	1
11031	123678-HxCDD	57653-85-7	119	B	0.122	5.37	1
11031	123789-HxCDD	19408-74-3	116	B	0.117	5.37	1
11031	1234678-HpCDD	35822-46-9	162	B	0.158	5.37	1
11031	OCDD	3268-87-9	997	B	0.223	10.7	1
11031	2378-TCDF	51207-31-9	23.1	B	0.0994	1.07	1
11031	12378-PeCDF	57117-41-6	120	B	0.0519	5.37	1
11031	23478-PeCDF	57117-31-4	119	B	0.0513	5.37	1
11031	123478-HxCDF	70648-26-9	118	B	0.118	5.37	1
11031	123678-HxCDF	57117-44-9	117	B	0.111	5.37	1
11031	123789-HxCDF	72918-21-9	119	B	0.134	5.37	1
11031	234678-HxCDF	60851-34-5	118	B	0.118	5.37	1
11031	1234678-HpCDF	67562-39-4	124	B	0.175	5.37	1
11031	1234789-HpCDF	55673-89-7	121	B	0.223	5.37	1
11031	OCDF	39001-02-0	268	B	0.109	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167507
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-189-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SS-0.0-0.5

LLI Sample # SW 6167507
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:25 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL189 SDG#: DX026-14MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 08:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-192-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167508
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL192 SDG#: DX026-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-192-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167508
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL192 SDG#: DX026-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.126	JQ	0.0843	1.08	1
11031	12378-PeCDD	40321-76-4	0.537	JB	0.131	5.38	1
11031	123478-HxCDD	39227-28-6	1.04	JBQ	0.130	5.38	1
11031	123678-HxCDD	57653-85-7	4.22	JBQ	0.132	5.38	1
11031	123789-HxCDD	19408-74-3	2.18	JB	0.130	5.38	1
11031	1234678-HpCDD	35822-46-9	82.4	B	0.216	5.38	1
11031	OCDD	3268-87-9	812	B	0.198	10.8	1
11031	2378-TCDF	51207-31-9	0.431	U	0.431	1.08	1
11031	12378-PeCDF	57117-41-6	0.622	JB	0.128	5.38	1
11031	23478-PeCDF	57117-31-4	1.19	JBQ	0.119	5.38	1
11031	123478-HxCDF	70648-26-9	0.745	JBQ	0.132	5.38	1
11031	123678-HxCDF	57117-44-9	0.877	JB	0.121	5.38	1
11031	123789-HxCDF	72918-21-9	1.11	JB	0.140	5.38	1
11031	234678-HxCDF	60851-34-5	1.45	JB	0.128	5.38	1
11031	1234678-HpCDF	67562-39-4	12.3	B	0.137	5.38	1
11031	1234789-HpCDF	55673-89-7	5.18	JB	0.171	5.38	1
11031	OCDF	39001-02-0	37.2	B	0.101	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	97	26 - 152
13C12-123678-HxCDF	100	26 - 123
13C12-234678-HxCDF	98	28 - 136
13C12-123789-HxCDF	99	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	97	26 - 138
13C12-OCDF	95	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-192-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167508
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL192 SDG#: DX026-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-192-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SS-0.0-0.5

LLI Sample # SW 6167508
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:04 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL192 SDG#: DX026-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 09:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-194-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167509
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL194 SDG#: DX026-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-194-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167509
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL194 SDG#: DX026-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0483	U	0.0483	1.11	1
11031	12378-PeCDD	40321-76-4	0.250	JBQ	0.0808	5.54	1
11031	123478-HxCDD	39227-28-6	0.463	JB	0.0873	5.54	1
11031	123678-HxCDD	57653-85-7	1.42	JB	0.0909	5.54	1
11031	123789-HxCDD	19408-74-3	0.988	JBQ	0.0874	5.54	1
11031	1234678-HpCDD	35822-46-9	43.8	B	0.133	5.54	1
11031	OCDD	3268-87-9	478	B	0.118	11.1	1
11031	2378-TCDF	51207-31-9	0.218	JB	0.113	1.11	1
11031	12378-PeCDF	57117-41-6	0.570	JB	0.0728	5.54	1
11031	23478-PeCDF	57117-31-4	0.246	JB	0.0707	5.54	1
11031	123478-HxCDF	70648-26-9	0.410	JB	0.0763	5.54	1
11031	123678-HxCDF	57117-44-9	0.483	JB	0.0726	5.54	1
11031	123789-HxCDF	72918-21-9	0.359	JB	0.0824	5.54	1
11031	234678-HxCDF	60851-34-5	0.476	JB	0.0738	5.54	1
11031	1234678-HpCDF	67562-39-4	7.14	B	0.0722	5.54	1
11031	1234789-HpCDF	55673-89-7	0.619	JBQ	0.0875	5.54	1
11031	OCDF	39001-02-0	18.9	B	0.0602	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	94	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	95	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	94	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-194-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167509
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL194 SDG#: DX026-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-194-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SS-0.0-0.5

LLI Sample # SW 6167509
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:40 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL194 SDG#: DX026-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 10:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167510
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL196 SDG#: DX026-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-196-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167510
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL196 SDG#: DX026-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0467	U	0.0467	1.05	1
11031	12378-PeCDD	40321-76-4	0.351	JBQ	0.0996	5.27	1
11031	123478-HxCDD	39227-28-6	0.420	JB	0.0899	5.27	1
11031	123678-HxCDD	57653-85-7	1.30	JB	0.0911	5.27	1
11031	123789-HxCDD	19408-74-3	1.22	JB	0.0909	5.27	1
11031	1234678-HpCDD	35822-46-9	27.4	B	0.113	5.27	1
11031	OCDD	3268-87-9	356	B	0.125	10.5	1
11031	2378-TCDF	51207-31-9	0.165	JBQ	0.122	1.05	1
11031	12378-PeCDF	57117-41-6	0.807	JB	0.0708	5.27	1
11031	23478-PeCDF	57117-31-4	0.670	JB	0.0698	5.27	1
11031	123478-HxCDF	70648-26-9	0.493	JBQ	0.0888	5.27	1
11031	123678-HxCDF	57117-44-9	0.531	JB	0.0799	5.27	1
11031	123789-HxCDF	72918-21-9	0.431	JB	0.0972	5.27	1
11031	234678-HxCDF	60851-34-5	0.428	JB	0.0848	5.27	1
11031	1234678-HpCDF	67562-39-4	4.22	JB	0.0563	5.27	1
11031	1234789-HpCDF	55673-89-7	0.451	JB	0.0776	5.27	1
11031	OCDF	39001-02-0	10.6	B	0.0662	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	94	26 - 152
13C12-123678-HxCDF	98	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: SL-196-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167510
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL196 SDG#: DX026-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: SL-196-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SS-0.0-0.5

LLI Sample # SW 6167510
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:12 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL196 SDG#: DX026-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 11:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167511
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL198 SDG#: DX026-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-198-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167511
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL198 SDG#: DX026-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0909	J	0.0682	1.07	1
11031	12378-PeCDD	40321-76-4	0.529	JB	0.128	5.34	1
11031	123478-HxCDD	39227-28-6	1.12	JB	0.123	5.34	1
11031	123678-HxCDD	57653-85-7	2.67	JB	0.125	5.34	1
11031	123789-HxCDD	19408-74-3	2.29	JBQ	0.130	5.34	1
11031	1234678-HpCDD	35822-46-9	82.2	B	0.218	5.34	1
11031	OCDD	3268-87-9	1,130	B	0.204	10.7	1
11031	2378-TCDF	51207-31-9	0.247	JB	0.112	1.07	1
11031	12378-PeCDF	57117-41-6	0.544	JB	0.0598	5.34	1
11031	23478-PeCDF	57117-31-4	0.642	JB	0.0567	5.34	1
11031	123478-HxCDF	70648-26-9	0.560	JBQ	0.0973	5.34	1
11031	123678-HxCDF	57117-44-9	0.651	JB	0.0907	5.34	1
11031	123789-HxCDF	72918-21-9	0.405	JBQ	0.105	5.34	1
11031	234678-HxCDF	60851-34-5	0.727	JBQ	0.0923	5.34	1
11031	1234678-HpCDF	67562-39-4	11.4	B	0.0843	5.34	1
11031	1234789-HpCDF	55673-89-7	1.12	JBQ	0.110	5.34	1
11031	OCDF	39001-02-0	51.9	B	0.106	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-198-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167511
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL198 SDG#: DX026-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-198-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SS-0.0-0.5

LLI Sample # SW 6167511
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:59 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL198 SDG#: DX026-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 12:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-199-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167512
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL199 SDG#: DX026-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-199-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167512
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
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Chantilly VA 20151

DL199 SDG#: DX026-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0700	JQ	0.0502	1.06	1
11031	12378-PeCDD	40321-76-4	0.294	JBQ	0.106	5.32	1
11031	123478-HxCDD	39227-28-6	0.319	JB	0.0796	5.32	1
11031	123678-HxCDD	57653-85-7	1.26	JB	0.0840	5.32	1
11031	123789-HxCDD	19408-74-3	1.37	JB	0.0812	5.32	1
11031	1234678-HpCDD	35822-46-9	20.7	B	0.102	5.32	1
11031	OCDD	3268-87-9	262	B	0.0982	10.6	1
11031	2378-TCDF	51207-31-9	0.161	JBQ	0.119	1.06	1
11031	12378-PeCDF	57117-41-6	1.78	JB	0.0521	5.32	1
11031	23478-PeCDF	57117-31-4	1.44	JB	0.0535	5.32	1
11031	123478-HxCDF	70648-26-9	0.393	JBQ	0.0676	5.32	1
11031	123678-HxCDF	57117-44-9	0.652	JB	0.0590	5.32	1
11031	123789-HxCDF	72918-21-9	0.456	JB	0.0738	5.32	1
11031	234678-HxCDF	60851-34-5	0.941	JB	0.0631	5.32	1
11031	1234678-HpCDF	67562-39-4	3.84	JB	0.0466	5.32	1
11031	1234789-HpCDF	55673-89-7	0.423	JB	0.0631	5.32	1
11031	OCDF	39001-02-0	9.64	JB	0.0602	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-199-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167512
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

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Chantilly VA 20151

DL199 SDG#: DX026-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-199-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SS-0.0-0.5

LLI Sample # SW 6167512
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 13:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL199 SDG#: DX026-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 16:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167513
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL202 SDG#: DX026-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-202-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167513
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL202 SDG#: DX026-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0725	JQ	0.0701	1.07	1
11031	12378-PeCDD	40321-76-4	0.351	JBQ	0.100	5.36	1
11031	123478-HxCDD	39227-28-6	0.578	JBQ	0.113	5.36	1
11031	123678-HxCDD	57653-85-7	2.71	JBQ	0.119	5.36	1
11031	123789-HxCDD	19408-74-3	1.31	JB	0.119	5.36	1
11031	1234678-HpCDD	35822-46-9	51.5	B	0.145	5.36	1
11031	OCDD	3268-87-9	559	B	0.130	10.7	1
11031	2378-TCDF	51207-31-9	0.194	JBQ	0.155	1.07	1
11031	12378-PeCDF	57117-41-6	0.574	JB	0.0637	5.36	1
11031	23478-PeCDF	57117-31-4	0.443	JB	0.0606	5.36	1
11031	123478-HxCDF	70648-26-9	0.351	JBQ	0.0792	5.36	1
11031	123678-HxCDF	57117-44-9	0.366	JBQ	0.0750	5.36	1
11031	123789-HxCDF	72918-21-9	0.376	JBQ	0.0818	5.36	1
11031	234678-HxCDF	60851-34-5	0.687	JB	0.0755	5.36	1
11031	1234678-HpCDF	67562-39-4	5.92	B	0.0552	5.36	1
11031	1234789-HpCDF	55673-89-7	0.565	JB	0.0672	5.36	1
11031	OCDF	39001-02-0	18.6	B	0.0748	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	47	25 - 164
13C12-12378-PeCDD	53	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	48	24 - 169
13C12-12378-PeCDF	54	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167513
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:23 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 16:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL202 SDG#: DX026-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SS-0.0-0.5

LLI Sample # SW 6167513
LLI Group # 1225976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:23 by PH

Submitted: 12/17/2010 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL202 SDG#: DX026-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11008001	01/22/2011 17:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11008001	01/08/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162402B	12/23/2010 20:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225976
Reported: 02/21/11 at 04:53 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10357162402A	Sample number(s): 6167492-6167503								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10357162402B	Sample number(s): 6167504-6167513								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11008001	Sample number(s): 6167492-6167513								
2378-TCDD	0.00900 U	0.00900	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0325 J	0.0117	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0377 J	0.00980	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0525 J	0.0100	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0432 J	0.0102	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.172 J	0.0136	5.00	ng/kg	99		70-140		
OCDD	0.339 J	0.0171	10.0	ng/kg	100		78-144		
2378-TCDF	0.0100 J	0.00910	1.00	ng/kg	104		75-158		
2378-TCDF-Conf	0.0580 J	0.0301	1.00	ng/kg					
12378-PeCDF	0.0530 J	0.00550	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0835 J	0.00540	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0876 J	0.0100	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0702 J	0.00900	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0636 J	0.0112	5.00	ng/kg	94		78-130		
234678-HxCDF	0.108 J	0.00960	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.295 J	0.00560	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0694 J	0.00820	5.00	ng/kg	96		78-138		
OCDF	0.270 J	0.0174	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10357162402A	Sample number(s): 6167492-6167503					BKG: P167471			
28a Moisture Content by 160.3						25.8	24.4	6	20
Batch number: 10357162402B	Sample number(s): 6167504-6167513					BKG: P167481			
28a Moisture Content by 160.3						6.9	6.8	2	20
Batch number: 11008001	Sample number(s): 6167492-6167513 UNSPK: 6167505								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225976
Reported: 02/21/11 at 04:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	99	98	67-158	1	25				
12378-PeCDD	104	103	70-142	0	25				
123478-HxCDD	110	109	70-164	1	25				
123678-HxCDD	109	109	76-134	0	25				
123789-HxCDD	113	106	64-162	6	25				
1234678-HpCDD	115	115	70-140	0	25				
OCDD	167*	228*	78-144	14	25				
2378-TCDF	112	107	75-158	5	25				
12378-PeCDF	109	111	80-134	2	25				
23478-PeCDF	110	110	68-160	0	25				
123478-HxCDF	110	110	72-134	0	25				
123678-HxCDF	109	109	84-130	0	25				
123789-HxCDF	111	110	78-130	1	25				
234678-HxCDF	109	110	70-156	1	25				
1234678-HpCDF	110	110	82-122	0	25				
1234789-HpCDF	111	112	78-138	1	25				
OCDF	115	116	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11008001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6167492	76	77	80	83	79	79
6167493	75	77	77	80	76	78
6167494	67	72	74	77	72	73
6167495	69	74	80	82	83	82
6167496	73	80	90	92	89	87
6167497	73	80	91	89	90	91
6167498	75	80	89	89	89	89
6167499	82	94	103	105	104	102
6167500	81	87	96	97	96	93
6167501	70	70	83	82	79	81
6167502	72	75	84	83	86	87
6167503	61	68	79	79	79	76
6167504	70	77	89	89	87	84
6167505	67	69	79	81	79	78
6167506	75	78	90	94	90	87
6167507	60	66	80	81	79	77
6167508	82	84	97	100	98	99
6167509	81	83	94	95	95	98
6167510	77	79	94	98	92	94
6167511	66	74	81	82	80	81
6167512	77	76	85	92	87	85
6167513	47	55	68	69	71	73
Blank	73	77	81	87	81	81

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225976
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Surrogate Quality Control

MS	75	78	90	94	90	87
MSD	60	66	80	81	79	77
OPR	52	54	58	61	58	56
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6167492	75	64	48	81	75	82
6167493	75	63	50	83	76	79
6167494	72	67	55	78	71	77
6167495	79	80	79	79	70	74
6167496	89	80	83	80	76	80
6167497	87	88	76	82	76	80
6167498	87	85	78	82	77	81
6167499	104	99	90	93	90	94
6167500	100	85	90	86	85	87
6167501	80	78	75	74	68	72
6167502	83	89	89	80	70	77
6167503	77	74	73	76	64	71
6167504	88	82	83	79	73	80
6167505	85	75	72	71	65	73
6167506	94	90	87	82	73	80
6167507	83	78	77	69	62	72
6167508	99	97	95	87	80	88
6167509	96	96	94	83	79	84
6167510	100	91	85	83	76	85
6167511	80	76	76	78	69	75
6167512	92	83	78	79	73	81
6167513	73	73	74	85	53	64
Blank	84	70	55	89	76	84
MS	94	90	87	82	73	80
MSD	83	78	77	69	62	72
OPR	56	49	37	59	53	58
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6167492	80	79	71	55	80	81
6167493	77	79	70	57	79	81
6167494	75	74	71	60	73	75
6167495	73	73	73	77	73	75
6167496	80	80	79	79	76	83
6167497	80	80	78	70	77	81
6167498	77	79	78	73	76	80
6167499	93	92	92	86	86	95
6167500	87	87	87	95	83	90
6167501	71	71	74	73	70	73
6167502	72	74	78	85	75	74
6167503	70	69	70	71	67	68
6167504	78	78	78	84	77	79
6167505	71	73	74	72	67	70
6167506	80	79	84	81	79	84
6167507	69	71	74	72	64	66
6167508	87	89	92	92	85	86

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225976
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Surrogate Quality Control

6167509	85	86	89	90	83	83
6167510	84	85	86	85	82	84
6167511	73	74	73	73	72	73
6167512	78	80	80	80	76	83
6167513	63	64	67	72	48	54
Blank	83	83	77	63	76	81
MS	80	79	84	81	79	84
MSD	69	71	74	72	64	66
OPR	59	60	51	40	53	57
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6167492	
6167493	
6167494	
6167495	79
6167496	
6167497	
6167498	
6167499	
6167500	
6167501	77
6167502	79
6167503	
6167504	
6167505	
6167506	
6167507	
6167508	
6167509	
6167510	
6167511	
6167512	
6167513	
Blank	86
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

13013 1225976 6167492-513

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	*SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020/8887471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	PeroMonate Confirmation by EPA 6850	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**1,4-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP07-SA5B-QC-121610	12.16.10	1129	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									DUP
EB04-SA5B-121610	12.16.10	1215	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB04-SA5B-121610	12.16.10	1215	water	none	1-500 ml poly							X	X			X									X				rinsate
EB04-SA5B-121610	12.16.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	4-40 mL clear VOA vials															X						X			rinsate
EB16-SA5B-121610	12.16.10	1120	water	HCl	3-40 mL clear VOA vials				X												X	X			X				rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	1-250 mL glass					X														X					rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	4-1 liter ambers																				X				rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	1-250 mL amber																					X			rinsate
EB16-SA5B-121610	12.16.10	1120	water	NaOH	1-500 ml poly																								rinsate
SED-011-SIV-SD-0.0-0.5	12.16.10	1418	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-013-SIV-SD-0.0-0.5	12.16.10	1526	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-017-SIV-SD-0.0-0.5	12.16.10	1045	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-019-SIV-SD-0.0-0.5	12.16.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-020-SIV-SD-0.0-0.5	12.16.10	1140	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-040-SA5B-SB-1.5-2.5	12.16.10	1007	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA5B-SB-2.0	12.16.10	1004	soil	none	5 Encore Samplers	X	X		X																				
SL-040-SA5B-SB-9.0-10.0	12.16.10	1015	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA5B-SB-9.5	12.16.10	1011	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-1.5-2.5	12.16.10	1144	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-041-SA5B-SB-2.0	12.16.10	1140	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-8.5	12.16.10	1148	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-8.0-9.0	12.16.10	1155	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-2.5-3.5	12.16.10	1410	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-3.0	12.16.10	1404	soil	none	5 Encore Samplers	X	X		X																				
SL-042-SA5B-SB-8.0-9.0	12.16.10	1418	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-8.5	12.16.10	1413	soil	none	5 Encore Samplers	X	X		X																				
SL-043-SA5B-SB-2.5-3.5	12.16.10	1549	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-043-SA5B-SB-3.0	12.16.10	1545	soil	none	5 Encore Samplers	X	X		X																				
SL-147-SA5B-SS-0.0-0.5	12.16.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-169-SA5B-SS-0.0-0.5	12.16.10	1337	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-172-SA5B-SS-0.0-0.5	12.16.10	1352	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-173-SA5B-SS-0.0-0.5	12.16.10	1312	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-176-SA5B-SS-0.0-0.5	12.16.10	0925	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-178-SA5B-SS-0.0-0.5	12.16.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-186-SA5B-SS-0.0-0.5	12.16.10	1056	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-187-SA5B-SS-0.0-0.5	12.16.10	1119	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-189-SA5B-SS-0.0-0.5MS	12.16.10	1125	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										
SL-192-SA5B-SS-0.0-0.5	12.16.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										MS/MSD
SL-194-SA5B-SS-0.0-0.5	12.16.10	1340	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-196-SA5B-SS-0.0-0.5	12.16.10	1312	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-198-SA5B-SS-0.0-0.5	12.16.10	1059	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-199-SA5B-SS-0.0-0.5	12.16.10	1323	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-202-SA5B-SS-0.0-0.5	12.16.10	1423	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-205-SA5B-SS-0.0-0.5	12.16.10	1432	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-284-SA5B-SS-0.0-0.5	12.16.10	1413	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-285-SA5B-SS-0.0-0.5	12.16.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-286-SA5B-SS-0.0-0.5	12.16.10	0902	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-304-SA5B-SS-0.0-0.5	12.16.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-305-SA5B-SS-0.0-0.5	12.16.10	1450	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
TB-121610	12.16.10	0800	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: *(Signature)* — Date/Time 12.16.10 | 1700 — Received by: *(Signature)* — Date/Time

Received for Laboratory by: *(Signature)* — Date/Time 12/17/10 0940 — Airbill No. 00732992

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 6

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/17/2010
Group Number: 1225977
SDG: DE043
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP07-SA5B-QC-121610 Soil	6167514
EB04-SA5B-121610 Water	6167515
EB16-SA5B-121610 Water	6167516
SL-040-SA5B-SB-1.5-2.5 Soil	6167517
SL-040-SA5B-SB-9.0-10.0 Soil	6167518
SL-041-SA5B-SB-1.5-2.5 Soil	6167519
SL-041-SA5B-SB-8.0-9.0 Soil	6167520
SL-042-SA5B-SB-2.5-3.5 Soil	6167521
SL-042-SA5B-SB-8.0-9.0 Soil	6167522
SL-043-SA5B-SB-2.5-3.5 Soil	6167523
SL-205-SA5B-SS-0.0-0.5 Soil	6167524
SL-284-SA5B-SS-0.0-0.5 Soil	6167525
SL-285-SA5B-SS-0.0-0.5 Soil	6167526
SL-286-SA5B-SS-0.0-0.5 Soil	6167527
SL-304-SA5B-SS-0.0-0.5 Soil	6167528
TB-121610 Water	6167530

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP07-SA5B-QC-121610 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167514
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE043-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167514
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE043-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.0		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	3.4		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.4	19		1
10138	Fluoranthene	206-44-0	2.7		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.84	J	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.71	1.8		1
10138	Naphthalene	91-20-3	1.2	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.9		0.71	1.8		1
10138	Pyrene	129-00-0	2.5		0.71	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	3.4	U	3.4	3.4		1
10401	Dicamba	1918-00-9	0.47	J	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	410		81	270		1
10401	MCPP (Mecoprop)	93-65-2	450		80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

MCPP was detected in the method blank. MCPP was not detected in the reextracted blank. The hold time had expired prior to the reextraction so all results are reported from the original extract. The results between

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167514
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE043-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
extractions were slightly dissimilar because of the homogeneity of the sample.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	3.1	U	3.1	3.6		1
01363	p,p-DDD	72-54-8	0.30	U	0.30	0.36		1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.36		1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.36		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	5.2		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	8.4		0.35	1.8		1
10225	PCB-1260	11096-82-5	2.7		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400		5.29	21.0		1
07914	Boron	7440-42-8	3.32	J	0.935	5.25		1
01650	Calcium	7440-70-2	3,100		6.44	21.0		1
01654	Iron	7439-89-6	20,600		4.95	21.0		1
01656	Lithium	7439-93-2	19.1		0.23	2.1		1
01657	Magnesium	7439-95-4	4,040		2.67	10.5		1
06958	Manganese	7439-96-5	370		0.0820	0.525		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167514
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE043-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	272		0.588	10.5		1
01662	Potassium	7440-09-7	3,310		18.9	52.5		1
01667	Sodium	7440-23-5	104	J	39.2	105		1
07968	Strontium	7440-24-6	21.9		0.0651	0.525		1
06969	Tin	7440-31-5	2.62	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,220		0.399	1.05		1
10146	Zirconium	7440-67-7	1.83	J	0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.23		0.0637	0.424		2
06126	Barium	7440-39-3	149		0.115	0.424		2
06127	Beryllium	7440-41-7	0.718		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.405		0.0382	0.106		2
06131	Chromium	7440-47-3	29.4		0.127	0.424		2
06132	Cobalt	7440-48-4	8.61		0.0212	0.106		2
06133	Copper	7440-50-8	14.6		0.0700	0.424		2
06135	Lead	7439-92-1	20.3		0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.20		0.0531	0.106		2
06139	Nickel	7440-02-0	18.4		0.106	0.424		2
06141	Selenium	7782-49-2	0.187	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.151		0.0127	0.106		2
06145	Thallium	7440-28-0	0.388		0.0318	0.106		2
06148	Vanadium	7440-62-2	52.8		0.0233	0.106		2
06149	Zinc	7440-66-6	86.0		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.68	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	408		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167514
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE043-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/17/2011 20:47	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 00:42	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550018A	12/29/2010 05:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/07/2011 22:38	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 15:16	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550018A	12/22/2010 01:15	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:06	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:06	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167514
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE043-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 02:50	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 11:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 13:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 00:50	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB04-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5B-121610

LLI Sample # WW 6167515
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 12:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE043-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB04-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5B-121610

LLI Sample # WW 6167515
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 12:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE043-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,3-dichlorobenzene
1,4-dichlorobenzene

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.43	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.11	J	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.34	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.030	J	0.010	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.052	U	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1

The recoveries of several compounds were outside of QC limits in the LCS/LCSD.
The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .16 ug/l
bis(2-ethylhexyl)phthalate .19 ug/l
These blank values were not subtracted from the analytical results.
Sufficient sample was unavailable to repeat the analysis.

Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.17	U	0.17	0.52		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.083	U	0.083	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB04-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5B-121610

LLI Sample # WW 6167515
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 12:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE043-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	52	U	52	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.052		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0022	U	0.0022	0.011		1
00177	Alpha BHC	319-84-6	0.0033	U	0.0033	0.011		1
00177	Beta BHC	319-85-7	0.0031	U	0.0031	0.011		1
00177	Gamma BHC - Lindane	58-89-9	0.0022	U	0.0022	0.011		1
00177	Chlordane	57-74-9	0.13	U	0.13	0.54		1
00177	p,p-DDD	72-54-8	0.0054	U	0.0054	0.022		1
00177	p,p-DDE	72-55-9	0.0054	U	0.0054	0.022		1
00177	p,p-DDT	50-29-3	0.0054	U	0.0054	0.022		1
00177	Delta BHC	319-86-8	0.0031	U	0.0031	0.011		1
00177	Dieldrin	60-57-1	0.0057	U	0.0057	0.022		1
00177	Endosulfan I	959-98-8	0.0047	U	0.0047	0.011		1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.022		1
00177	Endosulfan Sulfate	1031-07-8	0.0063	U	0.0063	0.022		1
00177	Endrin	72-20-8	0.0088	U	0.0088	0.022		1
00177	Endrin Aldehyde	7421-93-4	0.022	U	0.022	0.11		1
00177	Endrin Ketone	53494-70-5	0.0054	U	0.0054	0.022		1
00177	Heptachlor	76-44-8	0.0028	U	0.0028	0.011		1
00177	Heptachlor Epoxide	1024-57-3	0.0025	U	0.0025	0.011		1
00177	Methoxychlor	72-43-5	0.033	U	0.033	0.11		1
00177	Mirex	2385-85-5	0.092	U	0.092	0.27		1
00177	Toxaphene	8001-35-2	1.1	U	1.1	3.3		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.54		1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.54		1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.54		1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.54		1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.54		1
10227	PCB-1232	11141-16-5	0.22	U	0.22	0.54		1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.54		1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.54		1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.54		1
10227	PCB-1260	11096-82-5	0.11	U	0.11	0.54		1
10227	PCB-1262	37324-23-5	0.22	U	0.22	0.54		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.54		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB04-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5B-121610

LLI Sample # WW 6167515
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 12:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE043-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	5.7	0.010	0.010		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB04-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5B-121610

LLI Sample # WW 6167515
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 12:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE043-02EB

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10354WAM026	01/17/2011 08:58	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354WAI026	01/05/2011 14:49	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10354WAM026	12/21/2010 08:30	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10354WAI026	12/21/2010 01:00	Sherry L Morrow	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103560021A	12/23/2010 17:07	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	12/23/2010 17:30	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	01/05/2011 19:28	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103550012A	12/31/2010 09:36	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103550012A	12/21/2010 18:10	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103550011A	12/21/2010 18:10	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103560021A	12/22/2010 20:30	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 17:13	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 17:13	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:24	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:30	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:30	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:30	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB04-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5B-121610

LLI Sample # WW 6167515
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 12:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE043-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:30	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10355196901A	12/21/2010 08:56	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/18/2010 17:00	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10351196301A	12/17/2010 10:50	Ashley M Adams	1
00200	22b pH by 9040B	SW-846 9040B	1	10351020002A	12/17/2010 21:00	Luz M Groff	1

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Analysis Report

Sample Description: **EB16-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB16-SA5B-121610

LLI Sample # WW 6167516
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:20 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-16 SDG#: DE043-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	2.23		1.00	2.00		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of .754 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.							
	Reporting limits were raised due to limited sample volume.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.90	J	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	2.2		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB16-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB16-SA5B-121610

LLI Sample # WW 6167516
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:20 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-16 SDG#: DE043-03EB

CAT No.	Analysis Name		CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics		**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	17b Formaldehyde by 8315A		50-00-0	10	U	10	50		1
GC Extractable TPH		**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)		n.a.	0.099	U	0.099	0.60		1
10365	EFH (C15-C20)		n.a.	0.099	U	0.099	0.60		1
10365	EFH (C21-C30)		n.a.	0.099	U	0.099	0.60		1
10365	EFH (C30 - C40)		n.a.	0.099	U	0.099	0.60		1
10365	EFH (C8-C11)		n.a.	0.099	U	0.099	0.60		1
	The LCS recovery for C8-C11 is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.								
GC Miscellaneous		**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol		111-46-6	10	U	10	100		1
08278	Ethylene glycol		107-21-1	10	U	10	100		1
08278	Propylene glycol		57-55-6	10	U	10	100		1
Terphenyls		**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl		92-06-8	0.083	U	0.083	0.26		1
10319	o-Terphenyl		84-15-1	0.083	U	0.083	0.26		1
10319	p-Terphenyl		92-94-4	0.083	U	0.083	0.26		1
Wet Chemistry		**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate		14797-55-8	0.050	U	0.050	0.10		1
		SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	21b Cyanide by 9012B		57-12-5	0.0050	U	0.0050	0.010		1
		SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B		n.a.	6.5		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB16-SA5B-121610 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA5B-121610

LLI Sample # WW 6167516
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:20 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-16 SDG#: DE043-03EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	19b NDMA by 1625C	EPA 1625C	1	10356WAE026	12/30/2010 14:24	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	10356WAE026	12/22/2010 13:15	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10355A20A	12/21/2010 21:20	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10355A20A	12/21/2010 21:20	Marie D John	1
10131	20b Energetics by 8330A	SW-846 8330A	1	103540010A	12/22/2010 12:27	Michele D Hamilton	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	103520001A	12/21/2010 16:23	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	103520001A	12/19/2010 13:30	Olivia Arosemena	1
11122	Energetics Extraction	SW-846 8330	1	103540010A	12/20/2010 19:00	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103550004A	12/23/2010 06:19	Heather E Williams	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	103540004A	12/20/2010 17:39	Tracy A Cole	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	103550002A	12/25/2010 01:09	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	103550004A	12/21/2010 15:00	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	103550002A	12/21/2010 15:00	Kathryn I DeHaven	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	10350196902A	12/17/2010 21:54	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	10363117102A	12/29/2010 20:04	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	10363117102A	12/29/2010 15:45	Carolyn M Mastropietro	1
00200	22b pH by 9040B	SW-846 9040B	1	10351020002A	12/17/2010 21:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167517
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04015 SDG#: DE043-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	44		6.4	7.7		0.86
06192	Benzene	71-43-2	0.14	J	0.1	3.8		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.8		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.86
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.86
06192	2-Butanone	78-93-3	7.3	J	1.2	7.7		0.86
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.86
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.86
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.8		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.86
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.86
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.86
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.86
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.86
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.86
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.8		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.8		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.86
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.86
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.86
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.86
06192	Methylene Chloride	75-09-2	0.57	J	0.23	3.8		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.86

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Sample Description: **SL-040-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167517
LLI Group # 1225977
Account # 13013

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04015 SDG#: DE043-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.86
06192	Toluene	108-88-3	0.16	J	0.08	3.8		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.86
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.83
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	37.5		18.6	37.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1

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SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167517
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04015 SDG#: DE043-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.1	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.39
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U	84	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	70	U	70	170	10000000	1
10132	Tetryl	479-45-8	85	U	85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

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HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	8,100		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	3.7		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	7.1		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	470	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	8.9	U	8.9	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-040-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167517
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04015 SDG#: DE043-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000		5.56	22.1		1
07914	Boron	7440-42-8	2.92	J	0.983	5.53		1
01650	Calcium	7440-70-2	9,150		6.77	22.1		1
01654	Iron	7439-89-6	23,100		5.20	22.1		1
01656	Lithium	7439-93-2	23.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,840		2.81	11.1		1
06958	Manganese	7439-96-5	280		0.0862	0.553		1
10145	Phosphorus	7723-14-0	376		0.619	11.1		1
01662	Potassium	7440-09-7	2,960		19.9	55.3		1
01667	Sodium	7440-23-5	156		41.2	111		1
07968	Strontium	7440-24-6	24.3		0.0685	0.553		1
06969	Tin	7440-31-5	2.61	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,320		0.420	1.11		1
10146	Zirconium	7440-67-7	2.06	J	0.928	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.38		0.0663	0.442		2
06126	Barium	7440-39-3	163		0.119	0.442		2
06127	Beryllium	7440-41-7	0.957		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.275		0.0398	0.111		2
06131	Chromium	7440-47-3	30.2		0.133	0.442		2
06132	Cobalt	7440-48-4	8.67		0.0221	0.111		2
06133	Copper	7440-50-8	12.6		0.0729	0.442		2
06135	Lead	7439-92-1	9.70		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.957		0.0553	0.111		2
06139	Nickel	7440-02-0	17.8		0.111	0.442		2
06141	Selenium	7782-49-2	0.190	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0573	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.459		0.0332	0.111		2
06148	Vanadium	7440-62-2	59.8		0.0243	0.111		2
06149	Zinc	7440-66-6	89.8		0.619	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167517
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04015 SDG#: DE043-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	388		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5B-SB-2.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	00:33	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	16:00	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010	13:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035123352	12/17/2010	14:26	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035123352	12/17/2010	13:54	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011	22:26	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/17/2011	22:30	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/05/2011	23:05	Gregory J Drahovsky	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-040-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167517
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04015 SDG#: DE043-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 12:39	Marie D John	20.39
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010 13:53	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 14:23	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 20:34	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 15:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 16:24	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 01:03	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 23:55	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 07:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2

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Sample Description: **SL-040-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167517
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04015 SDG#: DE043-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 11:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010201A	01/11/2011 11:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 12:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 01:06	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04091 SDG#: DE043-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.95
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.95
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.95
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.95
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.95
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.95
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.95
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.95
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.95
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.95
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.95
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.95
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.95
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.95
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.95
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.95
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.95
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.95
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.95
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.95
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.95
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.95
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.95
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.95
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.95
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.95
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.95
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.95
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.95
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.95
06192	Methylene Chloride	75-09-2	0.79	J	0.27	4.5		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.95

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Sample Description: SL-040-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04091 SDG#: DE043-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.95
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.95
06192	Toluene	108-88-3	0.15	J	0.09	4.5		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.95
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.95
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.95
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.95
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.95
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.78
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	77.6		19.7	39.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1

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Sample Description: SL-040-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04091 SDG#: DE043-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.49	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.90	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	5.8		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	1.1	J	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1

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Sample Description: SL-040-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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04091 SDG#: DE043-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.99	J	0.79	2.0		1
10138	Naphthalene	91-20-3	1.4	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.5	J	0.79	2.0		1
10138	Pyrene	129-00-0	1.5	J	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	89	U	89	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	59	U	59	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	350	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	350	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	59	U	59	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	59	U	59	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	59	U	59	180	10000000	1
10132	HMX	2691-41-0	150	U	150	440	10000000	1
10132	Nitrobenzene	98-95-3	59	U	59	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,500	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,500	10000000	1
10132	RDX	121-82-4	74	U	74	180	10000000	1
10132	Tetryl	479-45-8	90	U	90	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	59	U	59	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	59	U	59	180	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
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04091 SDG#: DE043-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	28		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	200	J	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		5.82	23.1		1
07914	Boron	7440-42-8	5.42	J	1.03	5.79		1
01650	Calcium	7440-70-2	7,010		7.10	23.1		1
01654	Iron	7439-89-6	28,700		5.45	23.1		1

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Sample Description: **SL-040-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
LLI Group # 1225977
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Project Name: SSFL Area IV Collocated Soil Sampling

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04091 SDG#: DE043-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	26.8		0.25	2.3		1
01657	Magnesium	7439-95-4	5,910		2.94	11.6		1
06958	Manganese	7439-96-5	399		0.0903	0.579		1
10145	Phosphorus	7723-14-0	325		0.648	11.6		1
01662	Potassium	7440-09-7	3,550		20.8	57.9		1
01667	Sodium	7440-23-5	207		43.2	116		1
07968	Strontium	7440-24-6	28.2		0.0718	0.579		1
06969	Tin	7440-31-5	2.95	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,380		0.440	1.16		1
10146	Zirconium	7440-67-7	3.06	J	0.972	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.315		0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.9		0.0688	0.459		2
06126	Barium	7440-39-3	203		0.124	0.459		2
06127	Beryllium	7440-41-7	1.12		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.394		0.0413	0.115		2
06131	Chromium	7440-47-3	49.3		0.138	0.459		2
06132	Cobalt	7440-48-4	12.5		0.0229	0.115		2
06133	Copper	7440-50-8	18.8		0.0757	0.459		2
06135	Lead	7439-92-1	15.9		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.992		0.0573	0.115		2
06139	Nickel	7440-02-0	25.4		0.115	0.459		2
06141	Selenium	7782-49-2	0.173	J	0.0458	0.459		2
06142	Silver	7440-22-4	0.0811	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.559		0.0344	0.115		2
06148	Vanadium	7440-62-2	91.3		0.0252	0.115		2
06149	Zinc	7440-66-6	112		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0258	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.6		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-040-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04091 SDG#: DE043-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	415	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010 00:55	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 16:19	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010 14:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035123352	12/17/2010 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035123352	12/17/2010 14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035123352	12/17/2010 14:00	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 22:43	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/17/2011 23:05	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 01:14	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1

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Sample Description: **SL-040-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04091 SDG#: DE043-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 13:15	Marie D John	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010 13:59	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 15:06	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 21:12	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 15:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 19:18	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 01:17	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 19:39	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 11:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:13	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2

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Sample Description: **SL-040-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167518
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04091 SDG#: DE043-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 12:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010201A	01/11/2011 12:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 14:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 01:22	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-041-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04115 SDG#: DE043-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	24		6.8	8.2		0.86
06192	Benzene	71-43-2	0.11	J	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	3.8	J	1.2	8.2		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.86
06192	Methylene Chloride	75-09-2	0.75	J	0.25	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Sample Description: SL-041-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04115 SDG#: DE043-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.09	J	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.22
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	130		39.7	79.4		2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1

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Sample Description: SL-041-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04115 SDG#: DE043-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.50	J	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.82	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1

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Sample Description: SL-041-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04115 SDG#: DE043-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	2.3		0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.1	J	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	89	U	89	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	74	U	74	180	10000000	1
10132	Tetryl	479-45-8	91	U	91	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1

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Sample Description: SL-041-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04115 SDG#: DE043-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	5,700		710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	2.5		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	4.2		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	470	J	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,100		5.87	23.3		1
07914	Boron	7440-42-8	9.50		1.04	5.84		1
01650	Calcium	7440-70-2	15,200		7.15	23.3		1
01654	Iron	7439-89-6	28,400		5.50	23.3		1

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Sample Description: **SL-041-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04115 SDG#: DE043-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	24.6		0.26	2.3		1
01657	Magnesium	7439-95-4	7,490		2.96	11.7		1
06958	Manganese	7439-96-5	333		0.0910	0.584		1
10145	Phosphorus	7723-14-0	470		0.654	11.7		1
01662	Potassium	7440-09-7	4,860		21.0	58.4		1
01667	Sodium	7440-23-5	208		43.5	117		1
07968	Strontium	7440-24-6	36.6		0.0724	0.584		1
06969	Tin	7440-31-5	2.78	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,440		0.444	1.17		1
10146	Zirconium	7440-67-7	4.89	J	0.980	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.386		0.0700	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.3		0.0700	0.467		2
06126	Barium	7440-39-3	175		0.126	0.467		2
06127	Beryllium	7440-41-7	1.10		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.522		0.0420	0.117		2
06131	Chromium	7440-47-3	48.5		0.140	0.467		2
06132	Cobalt	7440-48-4	11.7		0.0233	0.117		2
06133	Copper	7440-50-8	22.5		0.0770	0.467		2
06135	Lead	7439-92-1	16.3		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.736		0.0584	0.117		2
06139	Nickel	7440-02-0	23.7		0.117	0.467		2
06141	Selenium	7782-49-2	0.288	J	0.0467	0.467		2
06142	Silver	7440-22-4	0.0645	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.510		0.0350	0.117		2
06148	Vanadium	7440-62-2	87.5		0.0257	0.117		2
06149	Zinc	7440-66-6	120		0.654	3.50		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1

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Sample Description: SL-041-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04115 SDG#: DE043-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	144	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	16.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5B-SB-2.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	01:18	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	16:39	Jason M Long	21.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035123352	12/17/2010	14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035123352	12/17/2010	14:05	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/14/2011	14:22	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/17/2011	23:40	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011	01:46	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010	08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010	18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010	06:00	Joseph S Feister	1

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Sample Description: SL-041-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

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14420 Albemarle Point Place
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04115 SDG#: DE043-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 13:52	Marie D John	22.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010 14:04	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 15:48	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 21:21	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 16:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 16:48	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 01:32	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 19:55	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 08:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:10	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5B-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167519
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04115 SDG#: DE043-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 12:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010201A	01/11/2011 12:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 14:47	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11014243201A	01/19/2011 01:30	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-041-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167520
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04189 SDG#: DE043-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150		7.6	9.1		1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.03
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.5		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.03
06192	Bromoform	75-25-2	0.46	U	0.46	4.5		1.03
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.03
06192	2-Butanone	78-93-3	28		1.4	9.1		1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.5		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.03
06192	Chloromethane	74-87-3	0.38	U	0.38	4.5		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.03
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.5		1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.03
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.5		1.03
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.5		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.03
06192	Methylene Chloride	75-09-2	6.1		0.27	4.5		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.03

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Sample Description: **SL-041-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167520
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04189 SDG#: DE043-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.5		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.03
06192	Toluene	108-88-3	0.24	J	0.09	4.5		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.03
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.5		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.5		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.6
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	92.3	U	92.3	185		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-041-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167520
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04189 SDG#: DE043-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenanthrene	85-01-8	41	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.7	J	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	3.2		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.1	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	14	J	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.6	20		1
10138	Fluoranthene	206-44-0	1.4	J	0.74	1.8		1
10138	Fluorene	86-73-7	4.0		0.74	1.8		1

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Sample Description: SL-041-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167520
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04189 SDG#: DE043-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	7.2		0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	11		0.74	1.8		1
10138	Naphthalene	91-20-3	2.9		0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Pyrene	129-00-0	1.3	J	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.5	J	0.3	1.4		31.73
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	85	U	85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167520
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04189 SDG#: DE043-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	3,300		660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.9	U	8.9	27		20
10199	EFH (C15-C20)	n.a.	14	J	8.9	27		20
10199	EFH (C21-C30)	n.a.	390		8.9	27		20
10199	EFH (C30 - C40)	n.a.	860		8.9	27		20
10199	EFH (C8-C11)	n.a.	8.9	U	8.9	27		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	580		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167520
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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04189 SDG#: DE043-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.46	21.7		1
07914	Boron	7440-42-8	5.70		0.966	5.43		1
01650	Calcium	7440-70-2	9,040		6.66	21.7		1
01654	Iron	7439-89-6	22,000		5.11	21.7		1
01656	Lithium	7439-93-2	22.2		0.24	2.2		1
01657	Magnesium	7439-95-4	5,090		2.76	10.9		1
06958	Manganese	7439-96-5	264		0.0847	0.543		1
10145	Phosphorus	7723-14-0	359		0.608	10.9		1
01662	Potassium	7440-09-7	3,370		19.5	54.3		1
01667	Sodium	7440-23-5	162		40.5	109		1
07968	Strontium	7440-24-6	29.9		0.0673	0.543		1
06969	Tin	7440-31-5	2.55	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,220		0.413	1.09		1
10146	Zirconium	7440-67-7	3.14	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.204	J	0.0658	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.71		0.0658	0.439		2
06126	Barium	7440-39-3	136		0.118	0.439		2
06127	Beryllium	7440-41-7	0.809		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.215		0.0395	0.110		2
06131	Chromium	7440-47-3	27.2		0.132	0.439		2
06132	Cobalt	7440-48-4	8.40		0.0219	0.110		2
06133	Copper	7440-50-8	10.9		0.0724	0.439		2
06135	Lead	7439-92-1	9.33		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.907		0.0548	0.110		2
06139	Nickel	7440-02-0	16.1		0.110	0.439		2
06141	Selenium	7782-49-2	0.161	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0627	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.413		0.0329	0.110		2
06148	Vanadium	7440-62-2	57.6		0.0241	0.110		2
06149	Zinc	7440-66-6	89.4		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.98	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.22	1.1		1

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Sample Description: SL-041-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167520
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

04189 SDG#: DE043-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	339		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.73		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5B-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	01:40	Laura M Krieger	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	17:00	Jason M Long	22.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035123352	12/17/2010	14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035123352	12/17/2010	14:09	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/20/2011	10:15	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011	00:14	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011	02:18	Gregory J Drahovsky	1

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Laboratory Sample Analysis Record

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11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010	08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010	18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010	06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010	14:28	Marie D John	31.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:08	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011	16:30	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010	21:31	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010	16:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010	06:00	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010	17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010	14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/24/2010	20:11	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010	16:46	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010	21:31	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010	13:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103560020A	12/22/2010	18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010	07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010	15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010	10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011	15:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011	15:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011	15:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011	15:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010	03:14	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010	11:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010	11:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010	11:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010	11:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010	11:46	Choon Y Tian	2

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 13:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010201A	01/11/2011 13:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 15:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 01:54	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	54		7.1	8.5		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	8.3	J	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	1.4	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.95

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Sample Description: SL-042-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.11	J	0.08	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.95
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	93.0	U	93.0	186		5
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-042-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	1.2	J	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.99	J	0.37	1.9		1
10138	Anthracene	120-12-7	1.0	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.3		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	7.3		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	J	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	2.1		0.74	1.9		1
10138	Fluorene	86-73-7	2.9		0.74	1.9		1

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Sample Description: **SL-042-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.93	J	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.8	J	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	2.0		0.74	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.2	J	6.7	20		1
10138	Phenanthrene	85-01-8	5.7		0.74	1.9		1
10138	Pyrene	129-00-0	2.9		0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U	84	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	70	U	70	170	10000000	1
10132	Tetryl	479-45-8	85	U	85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	7,200		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.89	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	7.2		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	12		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	680		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1

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Sample Description: SL-042-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		5.45	21.7		1
07914	Boron	7440-42-8	2.43	J	0.964	5.42		1
01650	Calcium	7440-70-2	2,080		6.64	21.7		1
01654	Iron	7439-89-6	18,400		5.10	21.7		1
01656	Lithium	7439-93-2	22.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,920		2.75	10.8		1
06958	Manganese	7439-96-5	239		0.0845	0.542		1
10145	Phosphorus	7723-14-0	249		0.607	10.8		1
01662	Potassium	7440-09-7	2,460		19.5	54.2		1
01667	Sodium	7440-23-5	97.1	J	40.4	108		1
07968	Strontium	7440-24-6	17.0		0.0672	0.542		1
06969	Tin	7440-31-5	2.68	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,130		0.412	1.08		1
10146	Zirconium	7440-67-7	1.86	J	0.910	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.16		0.0657	0.438		2
06126	Barium	7440-39-3	112		0.118	0.438		2
06127	Beryllium	7440-41-7	0.705		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0973	J	0.0394	0.109		2
06131	Chromium	7440-47-3	23.1		0.131	0.438		2
06132	Cobalt	7440-48-4	6.07		0.0219	0.109		2
06133	Copper	7440-50-8	8.44		0.0722	0.438		2
06135	Lead	7439-92-1	7.99		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.768		0.0547	0.109		2
06139	Nickel	7440-02-0	12.5		0.109	0.438		2
06141	Selenium	7782-49-2	0.102	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0513	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.352		0.0328	0.109		2
06148	Vanadium	7440-62-2	46.7		0.0241	0.109		2
06149	Zinc	7440-66-6	74.5		0.613	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5		1

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Sample Description: SL-042-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	396		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	02:03	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	17:19	Jason M Long	24.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035123352	12/17/2010	14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035123352	12/17/2010	14:15	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/06/2011	10:51	Timothy J Trees	5

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Sample Description: **SL-042-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011 00:49	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 02:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 15:05	Marie D John	27.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010 14:13	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 17:12	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 21:40	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 16:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 17:13	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 17:30	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 22:19	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 09:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167521
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04225 SDG#: DE043-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 13:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010201A	01/11/2011 13:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 15:33	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 02:10	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04289 SDG#: DE043-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	16		6.9	8.2		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	3.2	J	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: SL-042-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04289 SDG#: DE043-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.91
06192	Toluene	108-88-3	0.12	J	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		25.67
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	93.9	U	93.9	188		5
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: **SL-042-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04289 SDG#: DE043-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	4.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.88	J	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

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Sample Description: **SL-042-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04289 SDG#: DE043-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.90	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.65
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U	84	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	70	U	70	170	10000000	1
10132	Tetryl	479-45-8	86	U	86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1

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Sample Description: SL-042-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04289 SDG#: DE043-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	7,000		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.4		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	16		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	490	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1

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Sample Description: SL-042-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

04289 SDG#: DE043-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,600		5.55	22.1		1
07914	Boron	7440-42-8	1.91	J	0.983	5.52		1
01650	Calcium	7440-70-2	1,880		6.77	22.1		1
01654	Iron	7439-89-6	18,800		5.20	22.1		1
01656	Lithium	7439-93-2	19.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,550		2.80	11.0		1
06958	Manganese	7439-96-5	214		0.0861	0.552		1
10145	Phosphorus	7723-14-0	141		0.618	11.0		1
01662	Potassium	7440-09-7	1,790		19.9	55.2		1
01667	Sodium	7440-23-5	268		41.2	110		1
07968	Strontium	7440-24-6	17.7		0.0685	0.552		1
06969	Tin	7440-31-5	3.57	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,030		0.420	1.10		1
10146	Zirconium	7440-67-7	1.23	J	0.927	5.52		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.137	J	0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.36		0.0669	0.446		2
06126	Barium	7440-39-3	96.4		0.120	0.446		2
06127	Beryllium	7440-41-7	0.836		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.128		0.0401	0.111		2
06131	Chromium	7440-47-3	22.9		0.134	0.446		2
06132	Cobalt	7440-48-4	6.62		0.0223	0.111		2
06133	Copper	7440-50-8	9.70		0.0736	0.446		2
06135	Lead	7439-92-1	8.07		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.959		0.0557	0.111		2
06139	Nickel	7440-02-0	12.2		0.111	0.446		2
06141	Selenium	7782-49-2	0.222	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0731	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.372		0.0334	0.111		2
06148	Vanadium	7440-62-2	51.7		0.0245	0.111		2
06149	Zinc	7440-66-6	77.1		0.624	3.34		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04289 SDG#: DE043-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	369		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5B-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010 02:26	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 17:39	Jason M Long	25.67
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010 14:18	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035123352	12/17/2010 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035123352	12/17/2010 14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035123352	12/17/2010 14:19	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/06/2011 11:08	Timothy J Trees	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04289 SDG#: DE043-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011 01:24	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 03:22	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 16:18	Marie D John	24.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010 14:18	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 17:55	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 21:50	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 17:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 19:43	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 17:45	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 21:47	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 12:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2

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Sample Description: **SL-042-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167522
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04289 SDG#: DE043-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 14:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010201A	01/11/2011 14:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 15:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 02:26	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-043-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167523
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04325 SDG#: DE043-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	47		7.4	8.8		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.99
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.99
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.99
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.99
06192	2-Butanone	78-93-3	8.3	J	1.3	8.8		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.99
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.99
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.99
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.99
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.99
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.99
06192	Methylene Chloride	75-09-2	0.60	J	0.26	4.4		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.99

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Sample Description: **SL-043-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167523
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04325 SDG#: DE043-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.99
06192	Toluene	108-88-3	0.12	J	0.09	4.4		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.99
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.99
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	45.6		18.5	36.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1

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Sample Description: SL-043-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167523
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

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Suite 210
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04325 SDG#: DE043-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.1		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	2.8		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1

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Sample Description: **SL-043-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167523
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04325 SDG#: DE043-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.74	1.8		1
10138	Pyrene	129-00-0	2.4		0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.77
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	85	U	85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	6,300		660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	1.7	J	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.6	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.68	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	9.0		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	15		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	730		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-043-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167523
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.36	21.3		1
07914	Boron	7440-42-8	2.17	J	0.948	5.32		1
01650	Calcium	7440-70-2	2,890		6.53	21.3		1
01654	Iron	7439-89-6	19,000		5.02	21.3		1
01656	Lithium	7439-93-2	25.8		0.23	2.1		1
01657	Magnesium	7439-95-4	4,630		2.70	10.6		1
06958	Manganese	7439-96-5	277		0.0831	0.532		1
10145	Phosphorus	7723-14-0	380		0.596	10.6		1
01662	Potassium	7440-09-7	3,020		19.2	53.2		1
01667	Sodium	7440-23-5	100	J	39.7	106		1
07968	Strontium	7440-24-6	14.5		0.0660	0.532		1
06969	Tin	7440-31-5	2.62	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,200		0.405	1.06		1
10146	Zirconium	7440-67-7	1.15	J	0.894	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.72		0.0651	0.434		2
06126	Barium	7440-39-3	115		0.117	0.434		2
06127	Beryllium	7440-41-7	0.647		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.149		0.0391	0.109		2
06131	Chromium	7440-47-3	23.6		0.130	0.434		2
06132	Cobalt	7440-48-4	7.01		0.0217	0.109		2
06133	Copper	7440-50-8	9.04		0.0717	0.434		2
06135	Lead	7439-92-1	7.47		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.815		0.0543	0.109		2
06139	Nickel	7440-02-0	14.1		0.109	0.434		2
06141	Selenium	7782-49-2	0.134	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0309	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.362		0.0326	0.109		2
06148	Vanadium	7440-62-2	47.3		0.0239	0.109		2
06149	Zinc	7440-66-6	85.3		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.22	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167523
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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04325 SDG#: DE043-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	386		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.44		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-043-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	02:48	Laura M Krieger	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010	17:59	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035123352	12/17/2010	14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035123352	12/17/2010	14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035123352	12/17/2010	14:23	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/06/2011	00:11	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011	01:58	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011	03:54	Gregory J Drahovsky	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-043-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167523
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04325 SDG#: DE043-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 16:54	Marie D John	25.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035123352	12/17/2010 14:22	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 20:02	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 21:59	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 17:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560020A	12/23/2010 17:38	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 18:00	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 22:03	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 10:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103560020A	12/22/2010 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2

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Sample Description: SL-043-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167523
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04325 SDG#: DE043-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 14:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010201A	01/11/2011 14:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 16:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 02:58	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:43	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-205-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167524
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL205 SDG#: DE043-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167524
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL205 SDG#: DE043-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.77	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.4		0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.0		0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	7.2		0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.5		0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	11	J	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	6.3		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.3	19		1
10138	Fluoranthene	206-44-0	6.9		0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	2.2		0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	2.9		0.70	1.8		1
10138	Naphthalene	91-20-3	2.3		0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.0	J	6.3	19		1
10138	Phenanthrene	85-01-8	5.7		0.70	1.8		1
10138	Pyrene	129-00-0	5.6		0.70	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	7.2	U	7.2	7.2		1
10401	Dicamba	1918-00-9	0.83	J	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167524
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL205 SDG#: DE043-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	2.0	J	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.60	U	0.60	0.60		1
01363	p,p-DDE	72-55-9	0.27	J	0.070	0.36		1
01363	p,p-DDT	50-29-3	1.5		0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.19	J	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.18	J	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.099	J	0.070	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.064	U	0.064	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Due to interfering peaks on the chromatogram from the presence of technical chlordane, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.21	20.7		1
07914	Boron	7440-42-8	8.41		0.921	5.18		1
01650	Calcium	7440-70-2	2,440		6.35	20.7		1
01654	Iron	7439-89-6	19,200		4.88	20.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167524
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL205 SDG#: DE043-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	18.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,530		2.63	10.4		1
06958	Manganese	7439-96-5	325		0.0808	0.518		1
10145	Phosphorus	7723-14-0	411		0.580	10.4		1
01662	Potassium	7440-09-7	3,520		18.6	51.8		1
01667	Sodium	7440-23-5	76.3	J	38.6	104		1
07968	Strontium	7440-24-6	19.6		0.0642	0.518		1
06969	Tin	7440-31-5	2.34	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,140		0.393	1.04		1
10146	Zirconium	7440-67-7	0.899	J	0.870	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.201	J	0.0621	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.79		0.0621	0.414		2
06126	Barium	7440-39-3	151		0.112	0.414		2
06127	Beryllium	7440-41-7	0.708		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.414		0.0373	0.104		2
06131	Chromium	7440-47-3	27.9		0.124	0.414		2
06132	Cobalt	7440-48-4	8.27		0.0207	0.104		2
06133	Copper	7440-50-8	13.5		0.0683	0.414		2
06135	Lead	7439-92-1	14.2		0.0108	0.207		2
06138	Molybdenum	7439-98-7	1.04		0.0518	0.104		2
06139	Nickel	7440-02-0	18.0		0.104	0.414		2
06141	Selenium	7782-49-2	0.158	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0522	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.411		0.0311	0.104		2
06148	Vanadium	7440-62-2	47.9		0.0228	0.104		2
06149	Zinc	7440-66-6	87.7		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	471		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167524
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL205 SDG#: DE043-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.83	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011 02:33	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 04:26	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550018A	12/29/2010 07:54	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 16:01	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/07/2011 22:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 18:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550018A	12/22/2010 01:15	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:33	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167524
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL205 SDG#: DE043-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:29	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 14:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202A	01/12/2011 16:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 03:14	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202A	01/11/2011 21:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102A	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402A	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167524
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL205 SDG#: DE043-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-284-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167525
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL284 SDG#: DE043-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(g,h,i)perylene	191-24-2	220		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	20	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	200		19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-284-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167525
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL284 SDG#: DE043-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	2.8		0.38	1.9		1
10138	Anthracene	120-12-7	9.2		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	28		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	74		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	180		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	13	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	50		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	12		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.8	20		1
10138	Fluoranthene	206-44-0	76		0.76	1.9		1
10138	Fluorene	86-73-7	1.4	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	7.0		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	8.3		0.76	1.9		1
10138	Naphthalene	91-20-3	8.9		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	16	J	6.8	20		1
10138	Phenanthrene	85-01-8	46		0.76	1.9		1
10138	Pyrene	129-00-0	56		0.76	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	1,100		86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for 2,4,5-TP and 2,4-DB represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-284-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167525
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL284 SDG#: DE043-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.10	U	0.10	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	5.1	U	5.1	5.1		1
01363	p,p-DDD	72-54-8	2.2	U	2.2	2.2		1
01363	p,p-DDE	72-55-9	0.54	U	0.54	0.54		1
01363	p,p-DDT	50-29-3	1.5	U	1.5	1.5		1
01363	Delta BHC	319-86-8	0.056	J	0.041	0.19		1
01363	Dieldrin	60-57-1	0.50	U	0.50	0.50		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.50	U	0.50	0.50		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.65	U	0.65	0.65		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.12	U	0.12	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.27	U	0.27	0.27		1
01363	Methoxychlor	72-43-5	0.96	U	0.96	1.9		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	44		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	22		0.37	1.9		1
10225	PCB-1260	11096-82-5	17		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,100		5.54	22.0		1
07914	Boron	7440-42-8	6.94		0.981	5.51		1
01650	Calcium	7440-70-2	4,700		6.76	22.0		1
01654	Iron	7439-89-6	21,100		5.19	22.0		1
01656	Lithium	7439-93-2	24.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,070		2.80	11.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-284-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167525
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL284 SDG#: DE043-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	266		0.0860	0.551		1
10145	Phosphorus	7723-14-0	457		0.617	11.0		1
01662	Potassium	7440-09-7	2,470		19.8	55.1		1
01667	Sodium	7440-23-5	147		41.1	110		1
07968	Strontium	7440-24-6	33.4		0.0683	0.551		1
06969	Tin	7440-31-5	2.70	J	1.10	11.0		1
06970	Titanium	7440-32-6	979		0.419	1.10		1
10146	Zirconium	7440-67-7	1.04	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.465		0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.0		0.0668	0.445		2
06126	Barium	7440-39-3	125		0.120	0.445		2
06127	Beryllium	7440-41-7	0.646		0.0178	0.111		2
06128	Cadmium	7440-43-9	2.17		0.0401	0.111		2
06131	Chromium	7440-47-3	31.9		0.134	0.445		2
06132	Cobalt	7440-48-4	9.70		0.0223	0.111		2
06133	Copper	7440-50-8	26.3		0.0734	0.445		2
06135	Lead	7439-92-1	22.6		0.0116	0.223		2
06138	Molybdenum	7439-98-7	1.44		0.0556	0.111		2
06139	Nickel	7440-02-0	28.8		0.111	0.445		2
06141	Selenium	7782-49-2	0.420	J	0.0445	0.445		2
06142	Silver	7440-22-4	7.23		0.0134	0.111		2
06145	Thallium	7440-28-0	0.427		0.0334	0.111		2
06148	Vanadium	7440-62-2	50.6		0.0245	0.111		2
06149	Zinc	7440-66-6	318		1.56	8.35		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0627	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	424		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-284-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167525
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL284 SDG#: DE043-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.62	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011 03:07	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 04:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550018A	12/29/2010 08:21	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/07/2011 23:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 19:17	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550018A	12/22/2010 01:15	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-284-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167525
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL284 SDG#: DE043-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 12:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 12:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 12:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 12:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	01/04/2011 11:13	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201A	01/11/2011 15:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202B	01/12/2011 17:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 04:34	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201A	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202B	01/11/2011 21:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-285-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167526
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL285 SDG#: DE043-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(g,h,i)perylene	191-24-2	22	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Sample Description: SL-285-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167526
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL285 SDG#: DE043-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	3.6	J	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	16		3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	17		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	33		3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	13		3.6	9.1		5
10138	Butylbenzylphthalate	85-68-7	34	J	33	98		5
10138	Di-n-butylphthalate	84-74-2	59	J	33	98		5
10138	Chrysene	218-01-9	29		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	4.1	J	3.6	9.1		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	120		33	98		5
10138	Fluoranthene	206-44-0	34		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.8		3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	5.4	J	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	6.7	J	3.6	9.1		5
10138	Naphthalene	91-20-3	5.1	J	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	98		5
10138	Phenanthrene	85-01-8	23		3.6	9.1		5
10138	Pyrene	129-00-0	32		3.6	9.1		5
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	13		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	1.2	U	1.2	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	220	J	83	270		1
10401	MCPP (Mecoprop)	93-65-2	170	J	82	270		1
10401	2,4,5-T	93-76-5	0.28		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

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Sample Description: **SL-285-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167526
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL285 SDG#: DE043-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: dinoseb.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.27		0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	4.4	U	4.4	4.4		1
01363	p,p-DDD	72-54-8	1.8	U	1.8	1.8		1
01363	p,p-DDE	72-55-9	0.67	U	0.67	0.67		1
01363	p,p-DDT	50-29-3	4.3		0.36	1.9		5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	1.2	U	1.2	1.2		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.86	U	0.86	0.86		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.57	U	0.57	0.57		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.072	U	0.072	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	43		5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.3		5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.3		5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	29		1.8	9.3		5
10225	PCB-1260	11096-82-5	75		1.8	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-285-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167526
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL285 SDG#: DE043-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,840		5.34	21.2		1
07914	Boron	7440-42-8	2.55	J	0.944	5.31		1
01650	Calcium	7440-70-2	3,570		6.50	21.2		1
01654	Iron	7439-89-6	16,200		5.00	21.2		1
01656	Lithium	7439-93-2	13.2		0.23	2.1		1
01657	Magnesium	7439-95-4	2,790		2.70	10.6		1
06958	Manganese	7439-96-5	177		0.0828	0.531		1
10145	Phosphorus	7723-14-0	388		0.594	10.6		1
01662	Potassium	7440-09-7	1,910		19.1	53.1		1
01667	Sodium	7440-23-5	98.3	J	39.6	106		1
07968	Strontium	7440-24-6	15.2		0.0658	0.531		1
06969	Tin	7440-31-5	2.67	J	1.06	10.6		1
06970	Titanium	7440-32-6	754		0.403	1.06		1
10146	Zirconium	7440-67-7	1.01	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.354		0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.97		0.0649	0.433		2
06126	Barium	7440-39-3	139		0.292	1.08		5
06127	Beryllium	7440-41-7	0.503		0.0173	0.108		2
06128	Cadmium	7440-43-9	1.70		0.0390	0.108		2
06131	Chromium	7440-47-3	49.8		0.130	0.433		2
06132	Cobalt	7440-48-4	9.76		0.0216	0.108		2
06133	Copper	7440-50-8	352		0.179	1.08		5
06135	Lead	7439-92-1	97.2		0.0563	1.08		10
06138	Molybdenum	7439-98-7	4.42		0.0541	0.108		2
06139	Nickel	7440-02-0	34.8		0.108	0.433		2
06141	Selenium	7782-49-2	0.190	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.905		0.0130	0.108		2
06145	Thallium	7440-28-0	0.236		0.0325	0.108		2
06148	Vanadium	7440-62-2	54.4		0.0238	0.108		2
06149	Zinc	7440-66-6	420		1.51	8.12		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0486	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.96	J	0.22	1.1		1

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Sample Description: **SL-285-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167526
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

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14420 Albemarle Point Place
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SL285 SDG#: DE043-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	469	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.97	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011 03:42	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 11:31	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550018A	01/06/2011 20:03	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/07/2011 23:48	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/20/2011 22:58	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 19:36	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550018A	12/22/2010 01:15	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/01/2011 15:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1

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Sample Description: **SL-285-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167526
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL285 SDG#: DE043-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	01/04/2011 11:15	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	01/04/2011 11:15	Choon Y Tian	5
06135	Lead	SW-846 6020	1	103571026001A	01/04/2011 11:17	Choon Y Tian	10
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 12:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 12:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 12:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	01/04/2011 11:15	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201B	01/11/2011 15:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202B	01/12/2011 18:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 04:50	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201B	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202B	01/11/2011 21:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-286-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167527
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL286 SDG#: DE043-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	43	J	20	200		1
04688	Benzo(a)pyrene	50-32-8	31	J	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	59	J	20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	49	J	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	23	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Chrysene	218-01-9	53	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	190	J	20	390		1
04688	Fluoranthene	206-44-0	83	J	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-286-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167527
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL286 SDG#: DE043-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenanthrene	85-01-8	57	J	20	200		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	92	J	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.8		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.8		5
10138	Anthracene	120-12-7	4.8	J	2.0	9.8		5
10138	Butylbenzylphthalate	85-68-7	35	U	35	110		5
10138	Di-n-butylphthalate	84-74-2	50	J	35	110		5
10138	Dibenz(a,h)anthracene	53-70-3	4.2	J	3.9	9.8		5
10138	Diethylphthalate	84-66-2	35	U	35	110		5
10138	Dimethylphthalate	131-11-3	35	U	35	110		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	12		3.9	9.8		5
10138	1-Methylnaphthalene	90-12-0	5.6	J	3.9	9.8		5
10138	2-Methylnaphthalene	91-57-6	6.1	J	3.9	9.8		5
10138	Naphthalene	91-20-3	4.3	J	3.9	9.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.8		5
10138	Di-n-octylphthalate	117-84-0	35	U	35	110		5
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	19		0.73	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	480		89	290		1
10401	MCPP (Mecoprop)	93-65-2	130	U	130	290		1
10401	2,4,5-T	93-76-5	0.23		0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-286-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167527
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL286 SDG#: DE043-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: MCPP.								
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.14	U	0.14	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.11	U	0.11	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	4.3	U	4.3	4.3		1
01363	p,p-DDD	72-54-8	4.5	U	4.5	4.5		5
01363	p,p-DDE	72-55-9	5.0	U	5.0	5.0		5
01363	p,p-DDT	50-29-3	11		0.39	2.0		5
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	2.0	U	2.0	2.0		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.19		1
01363	Endosulfan II	33213-65-9	2.1	U	2.1	2.1		1
01363	Endosulfan Sulfate	1031-07-8	0.52	U	0.52	0.52		1
01363	Endrin	72-20-8	0.59	U	0.59	0.59		1
01363	Endrin Aldehyde	7421-93-4	2.1	U	2.1	2.1		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.082	U	0.082	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.9	U	5.9	19		5
10225	Aroclor 5442	12642-23-8	5.9	U	5.9	19		5
10225	Aroclor 5460	11126-42-4	26		5.9	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	10		5
10225	PCB-1221	11104-28-2	2.9	U	2.9	10		5
10225	PCB-1232	11141-16-5	3.0	U	3.0	10		5
10225	PCB-1242	53469-21-9	2.9	U	2.9	10		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	10		5
10225	PCB-1254	11097-69-1	24		1.9	10		5
10225	PCB-1260	11096-82-5	55		1.9	10		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	10		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	10		5
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.73	22.8		1
07914	Boron	7440-42-8	6.03		1.01	5.69		1
01650	Calcium	7440-70-2	4,170		6.98	22.8		1

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Sample Description: **SL-286-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167527
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL286 SDG#: DE043-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,800		5.36	22.8		1
01656	Lithium	7439-93-2	16.9		0.25	2.3		1
01657	Magnesium	7439-95-4	3,520		2.89	11.4		1
06958	Manganese	7439-96-5	393		0.0888	0.569		1
10145	Phosphorus	7723-14-0	489		0.637	11.4		1
01662	Potassium	7440-09-7	2,420		20.5	56.9		1
01667	Sodium	7440-23-5	104	J	42.5	114		1
07968	Strontium	7440-24-6	18.6		0.0706	0.569		1
06969	Tin	7440-31-5	2.70	J	1.14	11.4		1
06970	Titanium	7440-32-6	893		0.433	1.14		1
10146	Zirconium	7440-67-7	0.956	U	0.956	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.279		0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.65		0.0690	0.460		2
06126	Barium	7440-39-3	109		0.124	0.460		2
06127	Beryllium	7440-41-7	0.491		0.0184	0.115		2
06128	Cadmium	7440-43-9	1.12		0.0414	0.115		2
06131	Chromium	7440-47-3	46.4		0.138	0.460		2
06132	Cobalt	7440-48-4	9.46		0.0230	0.115		2
06133	Copper	7440-50-8	19.3		0.0759	0.460		2
06135	Lead	7439-92-1	60.5		0.0120	0.230		2
06138	Molybdenum	7439-98-7	1.85		0.0575	0.115		2
06139	Nickel	7440-02-0	33.7		0.115	0.460		2
06141	Selenium	7782-49-2	0.201	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.880		0.0138	0.115		2
06145	Thallium	7440-28-0	0.208		0.0345	0.115		2
06148	Vanadium	7440-62-2	43.1		0.0253	0.115		2
06149	Zinc	7440-66-6	258		1.61	8.62		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0516	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	466		10.0	10.0		1

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Sample Description: **SL-286-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167527
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL286 SDG#: DE043-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.81	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011 09:43	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 12:03	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550018A	01/06/2011 20:31	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 16:07	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011 00:02	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011 00:15	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 19:54	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550018A	12/22/2010 01:15	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-286-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167527
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL286 SDG#: DE043-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:48	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 12:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 12:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 12:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	01/04/2011 11:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 12:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	01/04/2011 11:22	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:39	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201B	01/11/2011 16:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202B	01/12/2011 19:01	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 05:06	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201B	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202B	01/11/2011 21:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1

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Sample Description: **SL-286-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167527
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL286 SDG#: DE043-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-304-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167528
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL304 SDG#: DE043-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-304-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167528
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL304 SDG#: DE043-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.69	J	0.35	1.8		1
10138	Anthracene	120-12-7	1.5	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	5.7		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	6.8		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	19		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	6.3		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.3		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	9.4	J	6.4	19		1
10138	Chrysene	218-01-9	18		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	J	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.4	19		1
10138	Fluoranthene	206-44-0	11		0.71	1.8		1
10138	Fluorene	86-73-7	0.84	J	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.1		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	6.2		0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	7.5		0.71	1.8		1
10138	Naphthalene	91-20-3	6.2		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	8.7	J	6.4	19		1
10138	Phenanthrene	85-01-8	12		0.71	1.8		1
10138	Pyrene	129-00-0	11		0.71	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	8.5	U	8.5	8.5		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	81	U	81	270		1
10401	MCPP (Mecoprop)	93-65-2	480		80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

MCPP was detected in the method blank. MCPP was not detected in the reextracted blank. The hold time had expired prior to the reextraction so all results are reported from the original extract. The results between

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Sample Description: SL-304-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167528
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL304 SDG#: DE043-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	extractions were slightly dissimilar because of the homogeneity of the sample.							
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.40	U	0.40	0.40		1
01363	p,p-DDE	72-55-9	0.30	U	0.30	0.36		1
01363	p,p-DDT	50-29-3	0.44	U	0.44	0.44		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.096	U	0.096	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.46	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.55	J	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,800		5.18	20.6		1
07914	Boron	7440-42-8	7.57		0.917	5.15		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-304-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167528
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL304 SDG#: DE043-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,900		6.32	20.6		1
01654	Iron	7439-89-6	17,300		4.85	20.6		1
01656	Lithium	7439-93-2	17.4		0.23	2.1		1
01657	Magnesium	7439-95-4	3,400		2.62	10.3		1
06958	Manganese	7439-96-5	315		0.0804	0.515		1
10145	Phosphorus	7723-14-0	320		0.577	10.3		1
01662	Potassium	7440-09-7	3,290		18.6	51.5		1
01667	Sodium	7440-23-5	81.4	J	38.4	103		1
07968	Strontium	7440-24-6	24.2		0.0639	0.515		1
06969	Tin	7440-31-5	2.40	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,040		0.392	1.03		1
10146	Zirconium	7440-67-7	0.926	J	0.866	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.13		0.0624	0.416		2
06126	Barium	7440-39-3	172		0.112	0.416		2
06127	Beryllium	7440-41-7	0.740		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.561		0.0375	0.104		2
06131	Chromium	7440-47-3	28.2		0.125	0.416		2
06132	Cobalt	7440-48-4	9.91		0.0208	0.104		2
06133	Copper	7440-50-8	15.4		0.0687	0.416		2
06135	Lead	7439-92-1	21.8		0.0108	0.208		2
06138	Molybdenum	7439-98-7	1.16		0.0520	0.104		2
06139	Nickel	7440-02-0	19.5		0.104	0.416		2
06141	Selenium	7782-49-2	0.183	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.130		0.0125	0.104		2
06145	Thallium	7440-28-0	0.462		0.0312	0.104		2
06148	Vanadium	7440-62-2	50.5		0.0229	0.104		2
06149	Zinc	7440-66-6	102		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0058	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-304-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167528
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL304 SDG#: DE043-15

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	521	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.99	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10355SLC026	01/18/2011 04:52	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLE026	01/06/2011 12:35	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLE026	12/28/2010 18:35	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10355SLC026	12/22/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103550018A	12/29/2010 09:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011 01:53	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103560035A	12/31/2010 20:13	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103560035A	12/23/2010 06:00	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103550018A	12/22/2010 01:15	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-304-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167528
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL304 SDG#: DE043-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 12:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 12:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 12:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 12:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010201B	01/11/2011 16:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11011011202B	01/12/2011 19:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11014243201A	01/19/2011 05:22	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010201B	01/10/2011 09:15	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11011011202B	01/11/2011 21:00	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11014243201A	01/14/2011 08:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-121610 Water**
SSFL Area IV Collocated Soil Sampling
TB-121610

LLI Sample # WW 6167530
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:00

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB216 SDG#: DE043-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-121610 Water
SSFL Area IV Collocated Soil Sampling
TB-121610

LLI Sample # WW 6167530
LLI Group # 1225977
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 08:00

Submitted: 12/17/2010 09:40
Reported: 01/28/2011 16:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB216 SDG#: DE043-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103512AA	12/18/2010	01:27	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103521AA	12/18/2010	08:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y103512AA	12/18/2010	01:27	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E103521AA	12/18/2010	08:08	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10355A20A	12/21/2010	21:42	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10355A20A	12/21/2010	21:42	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103543AA	Sample number(s): 6167517-6167523									
Acetone	6.7	U	6.7	8.0	ug/kg	130	124	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	105	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94	93	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	98	95	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	96	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	92	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	78	79	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	114	108	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100	99	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	99	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	94	94	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	104	103	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	82	81	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	101	101	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	103	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	90	92	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	96	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	97	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	56	56	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	89	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	96	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	99	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97	97	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	94	94	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	96	95	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	82	80	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	105	104	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102	100	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107	104	73-123	3	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	103	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	101	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	100	97	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101	101	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	103	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	93	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91	91	77-120	0	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	101	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	107	104	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	81	81	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91	91	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	79	77	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	99	76-120	0	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	99	75-120	0	30

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96	96	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	79	76	61-134	3	30
Methylene Chloride	0.50	J	0.24	4.0	ug/kg	98	97	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	102	102	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	98	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	97	94	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	104	103	77-120	1	30
Toluene	0.11	J	0.08	4.0	ug/kg	101	101	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	92	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90	91	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	100	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	96	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	102	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	91	88	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96	95	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	99	100	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	100	99	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89	89	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	101	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	97	80-120	0	30
Batch number: E103511AA	Sample number(s): 6167517-6167523									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	102	101	70-130	1	30
Batch number: E103521AA	Sample number(s): 6167530									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	99		60-132		
Batch number: Y103512AA	Sample number(s): 6167530									
Acetone	6	U	6.	20	ug/l	186	190	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	96	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	103	103	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	94	92	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	91	91	80-120	0	30
Bromoform	1	U	1.	5	ug/l	93	92	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	87	79	44-120	10	30
2-Butanone	3	U	3.	10	ug/l	125	130	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	100	100	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	107	106	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	96	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	82	75	49-129	9	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	102	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	98	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	83	81	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	103	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	73	76	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	105	108	66-120	3	30
Dibromochloromethane	1	U	1.	5	ug/l	94	94	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	77	72	47-120	6	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	97	79-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	96	95	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	100	103	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	93	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	90	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	95	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	87	87	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	112	115	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	98	99	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	116	120	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	102	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	95	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	97	97	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	98	100	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	110	108	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	97	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	107	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	98	97	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	94	92	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	105	104	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Batch number: 10354WAI026	Sample number(s): 6167515									
Acenaphthene	0.010	U	0.010	0.050	ug/l	75	75	74-109	0	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	77	78	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	76	77	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	79	80	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	74	75	64-115	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	81	83	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	62*	68	68-125	10	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	79	81	72-122	2	30
Butylbenzylphthalate	0.099	J	0.050	1.0	ug/l	83	86	70-130	4	30
Di-n-butylphthalate	0.16	J	0.050	1.0	ug/l	92	93	70-130	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	76	78	76-116	3	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	60*	65*	71-125	8	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	92	96	70-130	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	80	85	70-130	6	30
Bis(2-Ethylhexyl)phthalate	0.19	J	0.050	1.0	ug/l	80	80	70-130	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	77	80	75-116	4	30
Fluorene	0.010	U	0.010	0.050	ug/l	80	81	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	60*	66*	69-124	10	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	79	78	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	69*	67*	75-115	2	30
Naphthalene	0.010	U	0.010	0.050	ug/l	72	71*	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	54*	53*	70-130	1	30
Di-n-octylphthalate	0.18	J	0.050	1.0	ug/l	79	79	70-130	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	72*	73*	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	80	83	69-118	4	30
Batch number: 10354WAM026	Sample number(s): 6167515									
Aniline	1	U	1.	5	ug/l	61	90	49-101	39*	30
Benzidine	20	U	20.	60	ug/l	52	80	20-109	44*	30
Benzoic acid	6	U	6.	15	ug/l	16	32	10-69	67*	30
Benzyl alcohol	5	U	5.	15	ug/l	81	95	66-97	16	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	93	99	82-117	5	30
Carbazole	1	U	1.	5	ug/l	96	102	81-114	7	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	91	100	70-123	9	30
4-Chloroaniline	1	U	1.	5	ug/l	55	83	42-124	40*	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	90	97	74-124	8	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	89	96	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	90	96	62-127	6	30
2-Chloronaphthalene	2	U	2.	5	ug/l	74	78	54-132	6	30
2-Chlorophenol	1	U	1.	5	ug/l	89	101	77-108	12	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	96	82-111	6	30
Dibenzofuran	1	U	1.	5	ug/l	93	99	83-108	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	68	72	67-108	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	62*	67	63-110	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	64*	68	65-113	5	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	63	82	49-111	26	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	91	99	80-109	9	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	89	97	72-110	8	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	94	104	70-130	10	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	83	92	78-119	11	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	72	89	64-120	21	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	93	99	81-115	7	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	95	102	85-115	7	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	103	78-116	6	30
Hexachlorobenzene	1	U	1.	5	ug/l	93	98	81-118	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	58	61	57-124	6	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	30	45	10-118	40*	30
Hexachloroethane	1	U	1.	5	ug/l	53	58	52-113	9	30
Isophorone	1	U	1.	5	ug/l	92	98	74-117	7	30
2-Methylphenol	1	U	1.	5	ug/l	85	94	64-101	10	30
4-Methylphenol	2	U	2.	5	ug/l	76	91	61-103	18	30
2-Nitroaniline	1	U	1.	5	ug/l	94	103	83-116	9	30
3-Nitroaniline	1	U	1.	5	ug/l	92	104	74-113	12	30
4-Nitroaniline	1	U	1.	5	ug/l	78	87	59-100	11	30
Nitrobenzene	1	U	1.	5	ug/l	91	96	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	87	98	86-120	12	30
4-Nitrophenol	10	U	10.	30	ug/l	41	48	16-78	15	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	90	97	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	92	98	67-136	7	30
Pentachlorophenol	3	U	3.	15	ug/l	90	97	53-110	7	30
Phenol	1	U	1.	5	ug/l	43	52	29-67	19	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	71	73	71-112	3	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	102	79-107	13	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	91	98	81-113	8	30
Batch number: 10355SLC026	Sample number(s): 6167514,6167517-6167528									

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aniline	170 U		170.	500	ug/kg	44		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	44		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	82		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	82		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	80		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	84		67-125		
Benzoic acid	170 U		170.	500	ug/kg	92		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	85		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	85		79-117		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	83		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	84		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	52		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	85		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	82		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	97		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	105		75-117		
Fluoranthene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	82		64-119		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	83		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	103		56-118		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	92		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	82		35-106		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	88		58-112		
Pyrene	17	U	17.	170	ug/kg	96		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 10356WAE026	Sample number(s): 6167516									
N-Nitrosodimethylamine	0.754	J	0.500	1.00	ng/l	75	84	70-130	11	30
Batch number: 10361SLB026	Sample number(s): 6167517-6167523									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	100		70-130		
Batch number: 10362SLE026	Sample number(s): 6167514,6167517-6167528									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	92		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	87		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	85		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	89		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	96		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	88		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	86		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	84		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	105		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	85		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	95		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	90		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 10354A34A	Sample number(s): 6167517-6167523									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	79	67-119	6	30
Batch number: 10355A20A	Sample number(s): 6167516,6167530									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	91	75-135	18	30
Batch number: 103540010A	Sample number(s): 6167516									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	75-125	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	75-125	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	99	99	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	96	97	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
HMX	0.65	U	0.65	2.0	ug/l	99	98	65-125	1	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	92	93	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	98	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	98	98	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	104	104	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	97	98	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	120	120	33-147	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 103630002A	Sample number(s): 6167517-6167523									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	114		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	95	101	54-134	6	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	94	100	54-134	6	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	111		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	108		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	116		80-120		
HMX	130 U		130.	380	ug/kg	102		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	110		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	99		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	114		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	114		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	113		80-120		
PETN	1,000 U		1,000.	3,000	ug/kg	113		80-120		
RDX	63	U	63.	150	ug/kg	111		75-131		
Tetryl	77	U	77.	150	ug/kg	134		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	127		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	115		80-120		
Batch number: 103520001A	Sample number(s): 6167516									
17b Formaldehyde by 8315A	10	U	10.	50	ug/l	94	98	69-130	4	30
Batch number: 103560015A	Sample number(s): 6167517-6167523									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 103550018A	Sample number(s): 6167514,6167524-6167528									
2,4-D	1.2	U	1.2	3.6	ug/kg	133		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	61		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	91		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	78		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	5*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	104		60-141		
MCPA	76	U	76.	250	ug/kg	75		34-113		
MCPP (Mecoprop)	290		75.	250	ug/kg	84		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	95		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		48-138		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103560021A	Sample number(s): 6167515								
2,4-D	0.16 U	0.16	0.50	ug/l	140*	148*	45-128	6	30
Dalapon	0.25 U	0.25	1.3	ug/l	98	100	40-100	2	30
2,4-DB	0.30 U	0.30	1.0	ug/l	108	112	41-138	4	30
Dicamba	0.080 U	0.080	0.30	ug/l	108	112	51-144	4	30
Dinoseb	0.10 U	0.10	0.50	ug/l	60	67	23-93	11	30
2,4-DP (Dichlorprop)	0.16 U	0.16	0.50	ug/l	160*	168*	72-145	5	30
MCPA	300 U	300.	1,000	ug/l	116	124	69-129	7	30
MCPP	50 U	50.	200	ug/l	96	104	66-132	8	30
2,4,5-T	0.015 U	0.015	0.050	ug/l	112	112	53-141	0	30
2,4,5-TP	0.010 U	0.010	0.050	ug/l	108	116	56-135	7	30
Batch number: 110040016A	Sample number(s): 6167524,6167527								
6a Perchlorate EPA 6850	2.1 U	2.1	5.0	ug/kg	105		85-115		
Batch number: 103550011A	Sample number(s): 6167515								
Aldrin	0.0020 U	0.0020	0.010	ug/l	101	101	54-159	0	30
Alpha BHC	0.0030 U	0.0030	0.010	ug/l	122	122	59-146	0	30
Beta BHC	0.0029 U	0.0029	0.010	ug/l	98	103	73-147	5	30
Gamma BHC - Lindane	0.0020 U	0.0020	0.010	ug/l	89	96	68-128	8	30
Chlordane	0.12 U	0.12	0.50	ug/l					
p,p-DDD	0.0050 U	0.0050	0.020	ug/l	90	105	71-139	15	30
p,p-DDE	0.0050 U	0.0050	0.020	ug/l	105	116	66-130	10	30
p,p-DDT	0.0050 U	0.0050	0.020	ug/l	100	85	53-126	16	30
Delta BHC	0.0029 U	0.0029	0.010	ug/l	97	103	76-148	6	30
Dieldrin	0.0053 U	0.0053	0.020	ug/l	100	105	76-132	5	30
Endosulfan I	0.0043 U	0.0043	0.010	ug/l	79	89	68-128	12	30
Endosulfan II	0.015 U	0.015	0.020	ug/l	85	95	59-144	11	30
Endosulfan Sulfate	0.0058 U	0.0058	0.020	ug/l	85	105	71-142	21	30
Endrin	0.0081 U	0.0081	0.020	ug/l	75	90	52-132	18	30
Endrin Aldehyde	0.020 U	0.020	0.10	ug/l	95	105	68-139	10	20
Endrin Ketone	0.0050 U	0.0050	0.020	ug/l	95	105	69-146	10	30
Heptachlor	0.0026 U	0.0026	0.010	ug/l	92	97	57-126	5	30
Heptachlor Epoxide	0.0023 U	0.0023	0.010	ug/l	95	102	73-156	7	30
Methoxychlor	0.030 U	0.030	0.10	ug/l	75	91	52-133	19	30
Mirex	0.085 U	0.085	0.25	ug/l					
Toxaphene	1.0 U	1.0	3.0	ug/l					
Batch number: 103550012A	Sample number(s): 6167515								
Aroclor 5432	0.10 U	0.10	0.50	ug/l					
Aroclor 5442	0.10 U	0.10	0.50	ug/l	44*	44*	75-125	0	30
Aroclor 5460	0.10 U	0.10	0.50	ug/l					
PCB-1016	0.10 U	0.10	0.50	ug/l	98	96	68-119	2	30
PCB-1221	0.10 U	0.10	0.50	ug/l					
PCB-1232	0.20 U	0.20	0.50	ug/l					
PCB-1242	0.10 U	0.10	0.50	ug/l					
PCB-1248	0.10 U	0.10	0.50	ug/l					
PCB-1254	0.10 U	0.10	0.50	ug/l					
PCB-1260	0.10 U	0.10	0.50	ug/l	92	96	68-121	4	30
PCB-1262	0.20 U	0.20	0.50	ug/l					
PCB-1268	0.16 U	0.16	0.50	ug/l					
Batch number: 103560035A	Sample number(s): 6167514,6167517-6167528								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	69*	53*	75-125	26	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1016	0.33	U	0.33	1.7	ug/kg	81		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	124		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103610029A	Sample number(s): 6167514,6167524-6167528									
Aldrin	0.066	U	0.066	0.17	ug/kg	100		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	67		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	78		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	70		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	76		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	114		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	72		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	75		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	80		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	76		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	92		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	92		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	74		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	68		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	85		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	76		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	100		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	74		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103550004A	Sample number(s): 6167516									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	68	86	60-120	23	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	79	89	60-120	13	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	77	92	60-120	18	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	73	93	60-120	24	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	46*	60	60-120	26	30
Batch number: 103560020A	Sample number(s): 6167517-6167523									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	97		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	67		66-113		
Batch number: 103540002A	Sample number(s): 6167517-6167519									
Ethanol	100 U		100.	500	ug/kg	87		75-112		
Isopropanol	100 U		100.	500	ug/kg	90		75-125		
Methanol	100 U		100.	500	ug/kg	78		75-134		
Batch number: 103540003A	Sample number(s): 6167520-6167523									
Ethanol	100 U		100.	500	ug/kg	95		75-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropanol	100 U	100.	500	ug/kg	95		75-125		
Methanol	100 U	100.	500	ug/kg	91		75-134		
Batch number: 103540004A	Sample number(s): 6167516								
Diethylene glycol	11 J	10.	100	mg/l	90		78-126		
Ethylene glycol	10 U	10.	100	mg/l	90		80-124		
Propylene glycol	10 U	10.	100	mg/l	81		80-120		
Batch number: 103540008A	Sample number(s): 6167517-6167523								
Diethylene glycol	5.0 U	5.0	13	mg/kg	95		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	97		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	90		75-125		
Batch number: 103550002A	Sample number(s): 6167516								
m-Terphenyl	0.080 U	0.080	0.25	mg/l	110	100	75-125	10	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	110	110	75-125	0	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	110	100	75-125	10	20
Batch number: 103550027A	Sample number(s): 6167517-6167523								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	100	102	75-125	2	20
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	104	106	75-125	2	20
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	99	101	75-125	2	20
Batch number: 103545713001	Sample number(s): 6167515								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	97		80-120		
Batch number: 103551848003	Sample number(s): 6167515								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	92	90-112	4	20
Boron	0.0138 U	0.0138	0.0500	mg/l	97	94	90-110	3	20
Calcium	0.0960 J	0.0702	0.200	mg/l	102	99	90-112	3	20
Iron	0.0522 U	0.0522	0.200	mg/l	102	98	90-112	4	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	98	80-120	2	20
Magnesium	0.0421 J	0.0172	0.100	mg/l	101	98	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	101	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	100	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	97	90-110	3	20
Tin	0.0098 U	0.0098	0.0200	mg/l	103	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	99	80-120	3	20
Batch number: 103556050002A	Sample number(s): 6167515								
Antimony	0.00030 U	0.00030	0.0010	mg/l	105	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	106	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	108	103	90-112	5	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	102	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	104	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	104	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	109	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	107	108	90-115	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	101	89-116	0	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	80-120	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	109	105	80-120	4	20
Batch number: 103556050002B	Sample number(s): 6167515								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	107	85-114	0	20
Batch number: 103556050002C	Sample number(s): 6167515								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	103	80-120	2	20
Batch number: 103556050002D	Sample number(s): 6167515								
Barium	0.00038 U	0.00038	0.0020	mg/l	107	106	88-113	1	20
Batch number: 103571026001A	Sample number(s): 6167514,6167517-6167528								
Antimony	0.0600 U	0.0600	0.200	mg/kg	99		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	98		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	96		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	103		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	105		80-120		
Cobalt	0.0223 J	0.0200	0.100	mg/kg	94		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	95		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	100		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	103		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	100		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	101		78-122		
Batch number: 103571026001B	Sample number(s): 6167514,6167517-6167528								
Selenium	0.0400 U	0.0400	0.400	mg/kg	98		79-122		
Batch number: 103571026001C	Sample number(s): 6167514,6167517-6167528								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	104		78-122		
Batch number: 103571026001D	Sample number(s): 6167514,6167517-6167528								
Barium	0.108 U	0.108	0.400	mg/kg	95		79-121		
Batch number: 103575708004	Sample number(s): 6167514,6167517-6167528								
Aluminum	5.03 U	5.03	20.0	mg/kg	105		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	99		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	104		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	3.33 J	2.54	10.0	mg/kg	103		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.56 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	99		78-110		
Sodium	37.3 U	37.3	100	mg/kg	102		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.37 J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	108		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 103575711005	Sample number(s): 6167514,6167517-6167528								
Mercury	0.0028 U	0.0028	0.0988	mg/kg	104		88-123		
Batch number: 10350196902A	Sample number(s): 6167516								
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	99	100	90-110	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10351196301A	Sample number(s): 6167515									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	106	104	90-110	2	20
Batch number: 10352658701A	Sample number(s): 6167515									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	90	91	85-115	1	20
Batch number: 10355196901A	Sample number(s): 6167515									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	94	94	90-110	0	20
Batch number: 10361102202B	Sample number(s): 6167517-6167518									
21a Cyanide by 9012B	0.13	U	0.13	0.50	mg/kg	105		80-120		
Batch number: 10363117102A	Sample number(s): 6167516									
21b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	90	91	90-110	1	20
Batch number: 10364102201A	Sample number(s): 6167519-6167523									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11010010201A	Sample number(s): 6167514,6167517-6167525									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11010010201B	Sample number(s): 6167526-6167528									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
Batch number: 11011011202A	Sample number(s): 6167514,6167517-6167524									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11011011202B	Sample number(s): 6167525-6167528									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11014243201A	Sample number(s): 6167514,6167517-6167528									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 10351020002A	Sample number(s): 6167515-6167516									
22b pH by 9040B						100		99-101		
Batch number: 10354039402A	Sample number(s): 6167514,6167517-6167524									
22a pH by 9045C						100		95-105		
Batch number: 10354039402B	Sample number(s): 6167525-6167528									
22a pH by 9045C						100		95-105		
Batch number: 10354182102A	Sample number(s): 6167514,6167517-6167524									
Oxidation Reduction Potential						99		98-102		
Batch number: 10354182102B	Sample number(s): 6167525-6167528									
Oxidation Reduction Potential						99		98-102		
Batch number: 10364162402A	Sample number(s): 6167514,6167524-6167528									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11011162401A	Sample number(s): 6167517-6167523									
28a Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103543AA	Sample number(s): 6167517-6167523 UNSPK: 6167517								
Acetone	117		15-210						
Benzene	114		55-143						
Bromobenzene	102		43-139						
Bromochloromethane	105		60-137						
Bromodichloromethane	103		53-136						
Bromoform	90		38-124						
Bromomethane	85		42-168						
2-Butanone	101		37-163						
n-Butylbenzene	107		30-146						
sec-Butylbenzene	111		33-157						
tert-Butylbenzene	108		41-152						
Carbon Tetrachloride	116		45-153						
Chlorobenzene	107		49-135						
Chloroethane	90		39-152						
2-Chloroethyl Vinyl Ether	97		32-139						
Chloroform	112		61-142						
Chloromethane	101		51-163						
2-Chlorotoluene	108		42-146						
4-Chlorotoluene	108		39-145						
1,2-Dibromo-3-chloropropane	81		30-139						
Dibromochloromethane	100		51-128						
1,2-Dibromoethane	98		54-129						
Dibromomethane	104		57-130						
1,2-Dichlorobenzene	97		36-133						
1,3-Dichlorobenzene	98		34-134						
1,4-Dichlorobenzene	98		35-136						
Dichlorodifluoromethane	91		26-151						
1,1-Dichloroethane	114		63-142						
1,2-Dichloroethane	107		68-131						
1,1-Dichloroethene	118		61-149						
cis-1,2-Dichloroethene	113		60-136						
trans-1,2-Dichloroethene	115		59-142						
1,2-Dichloropropane	109		62-135						
1,3-Dichloropropane	103		58-129						
2,2-Dichloropropane	109		53-147						
1,1-Dichloropropene	115		54-145						
cis-1,3-Dichloropropene	97		51-131						
trans-1,3-Dichloropropene	95		49-129						
Ethylbenzene	110		44-141						
Freon 113	120		56-156						
Hexachlorobutadiene	75		10-155						
2-Hexanone	70		32-160						
Isopropylbenzene	109		38-144						
p-Isopropyltoluene	109		29-152						
Methyl Tertiary Butyl Ether	97		55-129						
4-Methyl-2-pentanone	71		46-139						
Methylene Chloride	105		61-141						
n-Propylbenzene	117		39-157						
Styrene	103		35-134						

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Quality Control Summary

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Reported: 01/28/11 at 04:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,1,2-Tetrachloroethane	107		52-130						
1,1,2,2-Tetrachloroethane	100		40-152						
Tetrachloroethene	109		42-149						
Toluene	111		50-146						
1,2,3-Trichlorobenzene	65		10-140						
1,2,4-Trichlorobenzene	69		10-136						
1,1,1-Trichloroethane	110		64-142						
1,1,2-Trichloroethane	102		54-139						
Trichloroethene	110		53-144						
Trichlorofluoromethane	101		47-163						
1,2,3-Trichloropropane	96		45-154						
1,2,4-Trimethylbenzene	109		37-149						
1,3,5-Trimethylbenzene	111		38-150						
Vinyl Chloride	100		50-154						
m+p-Xylene	110		44-137						
o-Xylene	105		42-137						
Batch number: E103521AA	Sample number(s): 6167530 UNSPK: P166661								
1,4-Dioxane	103	101	50-150	1	30				
Batch number: 10355SLC026	Sample number(s): 6167514,6167517-6167528 UNSPK: 6167514								
Aniline	35	42	14-114	18	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	92	94	65-122	2	30				
Benzo(a)pyrene	79	81	57-126	2	30				
Benzo(b)fluoranthene	79	84	59-125	6	30				
Benzo(g,h,i)perylene	70	74	59-127	5	30				
Benzo(k)fluoranthene	82	82	56-132	1	30				
Benzoic acid	53	52	10-173	3	30				
Benzyl alcohol	94	101	55-123	7	30				
4-Bromophenyl-phenylether	90	95	67-129	6	30				
Carbazole	91	93	64-120	2	30				
4-Chloro-3-methylphenol	98	99	53-130	1	30				
4-Chloroaniline	42	47	23-95	10	30				
bis(2-Chloroethoxy)methane	97	98	54-117	1	30				
bis(2-Chloroethyl)ether	91	88	60-116	3	30				
bis(2-Chloroisopropyl)ether	89	94	55-142	5	30				
2-Chloronaphthalene	81	82	50-141	2	30				
2-Chlorophenol	98	102	73-121	4	30				
4-Chlorophenyl-phenylether	95	98	64-119	3	30				
Chrysene	90	92	62-128	3	30				
Dibenzofuran	92	95	71-112	3	30				
1,2-Dichlorobenzene	84	91	66-108	9	30				
1,3-Dichlorobenzene	80	88	63-109	10	30				
1,4-Dichlorobenzene	82	87	53-113	6	30				
3,3'-Dichlorobenzidine	44	49	25-123	10	30				
2,4-Dichlorophenol	97	97	78-117	0	30				
2,4-Dimethylphenol	91	91	56-130	0	30				
3,5-Dimethylphenol	110	111	70-130	1	30				
4,6-Dinitro-2-methylphenol	76	75	10-148	2	30				
2,4-Dinitrophenol	54	53	20-143	1	30				
2,4-Dinitrotoluene	97	101	57-114	4	30				
2,6-Dinitrotoluene	97	100	69-123	3	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Diphenylhydrazine	97	100	71-129	3	30				
bis(2-Ethylhexyl)phthalate	99	103	63-122	4	30				
Fluoranthene	91	93	59-122	3	30				
Hexachlorobenzene	92	94	61-111	2	30				
Hexachlorobutadiene	90	92	62-120	2	30				
Hexachlorocyclopentadiene	96	94	10-153	2	30				
Hexachloroethane	85	94	57-109	10	30				
Indeno(1,2,3-cd)pyrene	75	78	61-126	5	30				
Isophorone	92	93	51-118	1	30				
2-Methylphenol	95	103	47-142	8	30				
4-Methylphenol	94	101	55-126	7	30				
2-Nitroaniline	102	104	67-125	2	30				
3-Nitroaniline	89	93	59-122	4	30				
4-Nitroaniline	69	72	52-112	4	30				
Nitrobenzene	94	97	51-114	3	30				
2-Nitrophenol	93	93	74-115	0	30				
4-Nitrophenol	95	99	39-133	4	30				
N-Nitroso-di-n-propylamine	93	101	60-116	9	30				
N-Nitrosodiphenylamine	89	91	86-145	2	30				
Pentachlorophenol	74	76	17-149	3	30				
Phenanthrene	90	92	65-125	3	30				
Phenol	96	103	58-126	7	30				
Pyrene	96	99	51-151	3	30				
1,2,4-Trichlorobenzene	90	91	72-115	1	30				
2,4,5-Trichlorophenol	96	99	34-139	3	30				
2,4,6-Trichlorophenol	97	104	49-140	7	30				
Batch number: 10361SLB026	Sample number(s): 6167517-6167523 UNSPK: P164941								
N-Nitrosodimethylamine	94	88	70-130	5	30				
Batch number: 10362SLE026	Sample number(s): 6167514,6167517-6167528 UNSPK: 6167517								
Acenaphthene	91	88	63-105	4	30				
Acenaphthylene	94	89	55-126	5	30				
Anthracene	91	91	46-136	1	30				
Benzo(a)anthracene	96	92	39-144	4	30				
Benzo(a)pyrene	88	86	34-156	2	30				
Benzo(b)fluoranthene	88	87	43-155	2	30				
Benzo(g,h,i)perylene	69	68	33-141	1	30				
Benzo(k)fluoranthene	91	90	42-144	1	30				
Butylbenzylphthalate	100	91	73-140	9	30				
Di-n-butylphthalate	110	101	78-160	8	30				
Chrysene	91	86	29-156	6	30				
Dibenz(a,h)anthracene	77	76	41-130	2	30				
Diethylphthalate	88	82*	87-131	6	30				
Dimethylphthalate	96	95	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	102	84	39-167	15	30				
Fluoranthene	97	95	26-166	2	30				
Fluorene	96	94	45-121	2	30				
Indeno(1,2,3-cd)pyrene	76	75	21-143	2	30				
1-Methylnaphthalene	92	87	72-123	6	30				
2-Methylnaphthalene	83	81	28-121	4	30				
Naphthalene	89	85	61-102	5	30				
N-Nitrosodimethylamine	104	96	48-113	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	95	88	40-192	8	30				
Phenanthrene	90	88	12-165	2	30				
Pyrene	87	83	15-153	4	30				
Batch number: 103630002A	Sample number(s): 6167517-6167523 UNSPK: P172090								
4-Amino-2,6-Dinitrotoluene	94	101	80-127	7	50				
2-Amino-4,6-Dinitrotoluene	93	99	80-137	6	50				
1,3-Dinitrobenzene	96	100	38-166	4	50				
2,4-Dinitrotoluene	93	98	80-131	5	50				
2,6-Dinitrotoluene	98	104	80-127	5	50				
HMX	80	87	63-128	8	50				
Nitrobenzene	100	102	80-125	2	50				
Nitroglycerin	83	89	80-120	6	50				
2-Nitrotoluene	101	105	80-122	4	50				
3-Nitrotoluene	101	105	72-119	3	50				
4-Nitrotoluene	100	104	80-125	4	50				
PETN	92	99	80-121	8	50				
RDX	85	93	75-129	9	50				
Tetryl	99	109	55-174	10	50				
1,3,5-Trinitrobenzene	106	112	82-126	5	50				
2,4,6-Trinitrotoluene	95	100	82-130	6	50				
Batch number: 103560015A	Sample number(s): 6167517-6167523 UNSPK: 6167517								
17a Formaldehyde by 8315A	92	94	80-120	1	50				
Batch number: 103550018A	Sample number(s): 6167514,6167524-6167528 UNSPK: 6167514								
2,4-D	0*	69	28-161	200*	35				
Dalapon	104*	0*	12-86	200*	50				
2,4-DB	366*	261*	20-170	33	50				
Dicamba	177*	72	33-120	59*	50				
Dinoseb	15	18	1-44	13	35				
2,4-DP (Dichlorprop)	119	133	55-141	11	50				
MCPA	116	130	31-184	8	50				
MCPP (Mecoprop)	109	92	16-174	11	50				
2,4,5-T	108	37	25-132	98*	35				
2,4,5-TP	100	110	10-183	9	35				
Batch number: 110040016A	Sample number(s): 6167524,6167527 UNSPK: P167468								
6a Perchlorate EPA 6850	110	110	80-120	0	20				
Batch number: 103560035A	Sample number(s): 6167514,6167517-6167528 UNSPK: P172038								
PCB-1016	104	114	29-146	9	50				
PCB-1260	148	136	39-149	7	50				
Batch number: 103610029A	Sample number(s): 6167514,6167524-6167528 UNSPK: 6167524								
Aldrin	79	70	16-126	12	50				
Alpha BHC	52	45	10-129	13	50				
Beta BHC	69	59	14-147	15	50				
Gamma BHC - Lindane	58	48	10-140	17	50				
p,p-DDD	55	67	16-163	20	50				
p,p-DDE	52	42	18-161	12	50				
p,p-DDT	-94*	2*	10-176	54*	50				
Delta BHC	66	59	23-140	10	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dieldrin	58	56	19-154	3	50				
Endosulfan I	45	39	16-137	14	50				
Endosulfan II	52	49	28-154	4	50				
Endosulfan Sulfate	111	95	21-160	15	50				
Endrin	58	56	11-149	3	50				
Endrin Aldehyde	59	41	10-148	24	35				
Endrin Ketone	58	49	22-165	13	50				
Heptachlor	61	52	13-126	16	50				
Heptachlor Epoxide	70	67	13-157	4	50				
Methoxychlor	83	64	32-147	26	50				
Batch number: 103560020A	Sample number(s): 6167517-6167523 UNSPK: P162864								
EFH (C12-C14)	80	77	49-123	3	20				
EFH (C15-C20)	77	74	49-123	1	20				
EFH (C21-C30)	-37 (2)	-208 (2)	49-123	35*	20				
EFH (C30 - C40)	224 (2)	-351 (2)	49-123	45*	20				
EFH (C8-C11)	65	67	49-123	2	20				
Batch number: 103540002A	Sample number(s): 6167517-6167519 UNSPK: P163871								
Ethanol	82	84	24-143	3	20				
Isopropanol	84	85	75-125	1	20				
Methanol	75	86	45-136	14	20				
Batch number: 103540003A	Sample number(s): 6167520-6167523 UNSPK: 6167520								
Ethanol	80	81	24-143	1	20				
Isopropanol	79	82	75-125	3	20				
Methanol	89	89	45-136	1	20				
Batch number: 103540004A	Sample number(s): 6167516 UNSPK: 6167516								
Diethylene glycol	90	100	83-130	11	20				
Ethylene glycol	95	105	89-125	10	20				
Propylene glycol	81*	86*	91-128	6	20				
Batch number: 103540008A	Sample number(s): 6167517-6167523 UNSPK: 6167517								
Diethylene glycol	12*	24*	59-109	69*	20				
Ethylene glycol	50*	67	63-107	28*	20				
Propylene glycol	47*	59*	63-107	23*	20				
Batch number: 103571026001A	Sample number(s): 6167514,6167517-6167528 UNSPK: P172090 BKG: P172090								
Antimony	69*	74*	75-125	7	20	0.153 J	0.127 J	19 (1)	20
Arsenic	201*	203*	75-125	1	20	4.65	5.60	18	20
Beryllium	139*	142*	75-125	2	20	0.752	0.813	8	20
Cadmium	178*	176*	75-125	0	20	0.0571 J	0.0787 J	32* (1)	20
Chromium	188*	200*	75-125	4	20	17.8	20.8	16	20
Cobalt	137*	145*	75-125	6	20	6.03	6.85	13	20
Copper	142*	149*	75-125	4	20	5.85	6.32	8	20
Lead	222*	216*	75-125	1	20	5.64	6.92	20	20
Nickel	167*	175*	75-125	3	20	10.9	11.8	8	20
Silver	177*	178*	75-125	2	20	0.0549 J	0.0639 J	15 (1)	20
Thallium	184*	167*	75-125	6	20	0.265	0.288	8 (1)	20
Vanadium	248*	260*	75-125	2	20	37.1	44.8	19	20

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Quality Control Summary

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Reported: 01/28/11 at 04:24 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Zinc	310 (2)	273 (2)	75-125	4	20	46.1	52.0	12	20
Batch number: 103571026001B	Sample number(s): 6167514,6167517-6167528 UNSPK: P172090 BKG: P172090								
Selenium	130*	132*	75-125	3	20	0.0695 J	0.0758 J	9 (1)	20
Batch number: 103571026001C	Sample number(s): 6167514,6167517-6167528 UNSPK: P172090 BKG: P172090								
Molybdenum	170*	175*	75-125	4	20	0.650	0.761	16	20
Batch number: 103571026001D	Sample number(s): 6167514,6167517-6167528 UNSPK: P172090 BKG: P172090								
Barium	485 (2)	442 (2)	75-125	2	20	113	121	7	20
Batch number: 103575708004	Sample number(s): 6167514,6167517-6167528 UNSPK: P172090 BKG: P172090								
Aluminum	972 (2)	1060 (2)	75-125	1	20	17,900	17,000	5	20
Boron	99	100	84-115	2	20	0.873 U	0.873 U	0 (1)	20
Calcium	130 (2)	118 (2)	75-125	2	20	1,710	1,710	0	20
Iron	-1116 (2)	-522 (2)	75-125	4	20	16,900	16,400	3	20
Lithium	97	96	82-114	1	20	17.7	16.3	8	20
Magnesium	29 (2)	38 (2)	75-125	1	20	3,300	3,060	8	20
Manganese	73 (2)	80 (2)	75-125	1	20	236	220	7	20
Phosphorus	86	91	75-125	3	20	113	99.7	13	20
Potassium	118	112	75-125	2	20	1,320	1,160	13	20
Sodium	98	96	75-125	1	20	96.3 J	87.2 J	10 (1)	20
Strontium	97	95	75-115	1	20	18.4	18.0	2	20
Tin	96	95	80-110	0	20	2.16 J	2.03 J	6 (1)	20
Titanium	232 (2)	206 (2)	75-125	2	20	1,020	974	5	20
Zirconium	98	98	75-125	1	20	1.80 J	2.04 J	12 (1)	20
Batch number: 103575711005	Sample number(s): 6167514,6167517-6167528 UNSPK: P172090 BKG: P172090								
Mercury	103	108	65-135	7	20	0.0028 U	0.0199 J	200* (1)	20
Batch number: 10361102202B	Sample number(s): 6167517-6167518 UNSPK: P164946 BKG: P164946								
21a Cyanide by 9012B	102		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 10364102201A	Sample number(s): 6167519-6167523 UNSPK: P169028 BKG: P169028								
21a Cyanide by 9012B	101		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11010010201A	Sample number(s): 6167514,6167517-6167525 UNSPK: 6167517 BKG: 6167517								
11a Anions by 300.0 - Fluoride	88		80-120			4.0	3.4	15 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			1.2 J	1.5 J	20 (1)	20
Batch number: 11010010201B	Sample number(s): 6167526-6167528 UNSPK: 6167526 BKG: 6167526								
11a Anions by 300.0 - Fluoride	87		80-120			1.1	1.0	6 (1)	20
Batch number: 11011011202A	Sample number(s): 6167514,6167517-6167524 UNSPK: 6167517 BKG: 6167517								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11011011202B	Sample number(s): 6167525-6167528 UNSPK: 6167525 BKG: 6167525								
7a Perchlorate EPA 314.0	104		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11014243201A	Sample number(s): 6167514,6167517-6167528 UNSPK: 6167524 BKG: 6167524								
3a Cr VI by EPA 7199	90		75-125			0.31 J	0.53 J	52* (1)	20

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Quality Control Summary

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Reported: 01/28/11 at 04:24 PM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10351020002A	Sample number(s): 6167515-6167516					BKG: P167341			
22b pH by 9040B						7.0	7.0	0	1
Batch number: 10354039402A	Sample number(s): 6167514,6167517-6167524					BKG: 6167523			
22a pH by 9045C						7.44	7.42	0	1
Batch number: 10354039402B	Sample number(s): 6167525-6167528					BKG: 6167525			
22a pH by 9045C						7.62	7.66	1	1
Batch number: 10354182102A	Sample number(s): 6167514,6167517-6167524					BKG: 6167523			
Oxidation Reduction Potential						386	381	1	6
Batch number: 10354182102B	Sample number(s): 6167525-6167528					BKG: 6167525			
Oxidation Reduction Potential						424	430	1	6
Batch number: 10364162402A	Sample number(s): 6167514,6167524-6167528					BKG: 6167525			
28a Moisture Content by 160.3						11.9	12.1	1	20
Batch number: 11011162401A	Sample number(s): 6167517-6167523					BKG: 6167523			
28a Moisture Content by 160.3						9.7	9.7	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103543AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6167517	105	105	97	96
6167518	105	105	96	94
6167519	105	105	97	93
6167520	105	101	99	88
6167521	104	103	97	94
6167522	105	104	97	95
6167523	104	100	97	93
Blank	102	99	98	93
LCS	99	102	100	100
LCSD	99	101	100	100
MS	100	100	103	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103511AA

	Toluene-d8
6167517	98

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Quality Control Summary

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Reported: 01/28/11 at 04:24 PM

Surrogate Quality Control

6167518	98
6167519	99
6167520	100
6167521	100
6167522	100
6167523	100
Blank	100
LCS	99
LCSD	100
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103521AA

	Toluene-d8
6167530	102
Blank	100
LCS	100
MS	102
MSD	102
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6167530	99	97	101	97
Blank	100	98	101	99
LCS	100	101	104	103
LCSD	97	97	103	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10354WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6167515	86	71	66
Blank	70	64	83
LCS	76	66	83
LCSD	78	65	84
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10354WAM026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6167515	57	37	79	86	82	83
Blank	63	43	86	85	80	83
LCS	59	40	89	85	84	79
LCSD	71	49	99	92	91	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

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Quality Control Summary

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Reported: 01/28/11 at 04:24 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10355SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6167514	95	91	100	83	93	89
6167517	97	92	106	79	87	92
6167518	84	77	98	71	80	93
6167519	97	93	103	82	87	94
6167520	91	85	100	76	85	91
6167521	107	103	105	84	92	97
6167522	102	97	103	83	93	101
6167523	94	90	104	79	92	96
6167524	95	91	101	83	90	97
6167525	93	91	99	81	88	95
6167526	92	89	88	79	91	91
6167527	85	85	91	82	88	87
6167528	92	88	92	83	96	102
Blank	78	82	92	79	89	82
LCS	85	87	104	89	87	85
MS	94	90	109	87	88	87
MSD	102	96	109	87	91	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 19b NDMA by 1625C
Batch number: 10356WAE026

	N-Nitrosodimethylamine-d6
6167516	140
Blank	104
LCS	110
LCSD	116
Limits:	50-150

Analysis Name: 19a NDMA by 1625C
Batch number: 10361SLB026

	N-Nitrosodimethylamine-d6
6167517	132
6167518	113
6167519	93
6167520	138
6167521	87
6167522	85
6167523	131
Blank	106
LCS	108
MS	101
MSD	113
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10362SLE026

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Quality Control Summary

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Reported: 01/28/11 at 04:24 PM

Surrogate Quality Control

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6167514	91	84	87
6167517	92	81	87
6167518	88	81	80
6167519	88	80	83
6167520	94	86	88
6167521	97	83	79
6167522	90	85	85
6167523	92	83	85
6167524	97	87	95
6167525	95	81	89
6167526	79	73	76
6167527	81	73	77
6167528	96	83	91
Blank	96	89	96
LCS	88	83	90
MS	97	84	85
MSD	90	84	89
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10354A34A

	Trifluorotoluene-F
6167517	86
6167518	83
6167519	76
6167520	91
6167521	88
6167522	83
6167523	87
Blank	90
LCS	91
LCSD	98
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10355A20A

	Trifluorotoluene-F
6167516	81
6167530	84
Blank	84
LCS	114
LCSD	109
Limits:	63-135

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 103520001A

	Butyraldehyde
6167516	109
Blank	80

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Quality Control Summary

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Surrogate Quality Control

LCS	94	
LCSD	93	
Limits:	45-145	

Analysis Name: 20b Energetics by 8330A
Batch number: 103540010A

	2-Nitro-m-xylene
6167516	91
Blank	92
LCS	100
LCSD	98
Limits:	50-134

Analysis Name: 12b Pesticides by 8081A
Batch number: 103550011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6167515	81	94
Blank	90	92
LCS	96	89
LCSD	99	101
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103550012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6167515	99	98
Blank	117	85
LCS	110	75
LCSD	106	81
Limits:	30-150	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103550018A

	2,4-Dichlorophenylacetic acid
6167514	87
6167524	125
6167525	149
6167526	115
6167527	110
6167528	138
Blank	82
LCS	86
MS	164*
MSD	196*
Limits:	36-156

Analysis Name: 17a Formaldehyde by 8315A

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Quality Control Summary

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Reported: 01/28/11 at 04:24 PM

Surrogate Quality Control

Batch number: 103560015A

	Butyraldehyde
6167517	107
6167518	112
6167519	111
6167520	105
6167521	101
6167522	100
6167523	106
Blank	106
LCS	95
MS	109
MSD	100
Limits:	64-126

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103560021A

	2,4-Dichlorophenylacetic acid
6167515	96
Blank	116
LCS	126
LCSD	132
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103560035A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6167514	111	122*
6167517	112	115
6167518	110	101
6167519	91	104
6167520	99	107
6167521	105	105
6167522	84	73
6167523	101	116
6167524	96	117
6167525	110	97
6167526	118	105
6167527	108	105
6167528	67	75
Blank	105	114
LCS	96	112
LCSD	91	104
MS	110	145*
MSD	102	133*
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103610029A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Surrogate Quality Control

6167514	46*	79
6167524	62	49
6167525	54	226*
6167526	17*	52
6167527	57	69
6167528	66	71
Blank	68	76
LCS	68	82
MS	60	84
MSD	53	46
Limits:	50-130	20-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103630002A

	2-Nitro-m-xylene
6167517	108
6167518	113
6167519	119
6167520	118
6167521	105
6167522	109
6167523	112
Blank	114
LCS	124
LCSD	114
MS	111
MSD	117
Limits:	80-146

Analysis Name: 25a Alcohols by 8015B
Batch number: 103540002A

	Acetone
6167517	89
6167518	81
6167519	82
Blank	93
LCS	90
MS	82
MSD	85
Limits:	42-138

Analysis Name: 25a Alcohols by 8015B
Batch number: 103540003A

	Acetone
6167520	85
6167521	157*
6167522	77
6167523	85
Blank	95
LCS	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Surrogate Quality Control

MS	84
MSD	85
Limits:	42-138

Analysis Name: 27b Glycols by 8015B
Batch number: 103540004A

	Tetramethylene glycol
6167516	95
Blank	88
LCS	101
MS	105
MSD	104
Limits:	10-164

Analysis Name: 27a Glycols by 8015B
Batch number: 103540008A

	Tetramethylene glycol
6167517	28*
6167518	74
6167519	89
6167520	75
6167521	55
6167522	66
6167523	74
Blank	102
LCS	102
MS	52
MSD	54
Limits:	50-119

Analysis Name: 26b Terphenyls by 8015B
Batch number: 103550002A

	n-Triacontane-d62
6167516	103
Blank	106
LCS	105
LCSD	99
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 103550004A

	Chlorobenzene	Orthoterphenyl
6167516	57	74
Blank	61	78
LCS	55	75
LCSD	68	84
Limits:	28-152	52-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225977
Reported: 01/28/11 at 04:24 PM

Surrogate Quality Control

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550027A

	n-Triacontane-d62
6167517	89
6167518	95
6167519	94
6167520	148
6167521	89
6167522	97
6167523	90
Blank	99
LCS	96
LCSD	97
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103560020A

	Chlorobenzene	Orthoterphenyl
6167517	44	48
6167518	65	68
6167519	62	68
6167520	88	99
6167521	74	80
6167522	71	69
6167523	77	85
Blank	71	76
LCS	76	83
MS	77	90
MSD	77	85
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1225977 61675I4-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP07-SA5B-QC-121610	12.16.10	1129	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										DUP
EB04-SA5B-121610	12.16.10	1215	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB04-SA5B-121610	12.16.10	1215	water	none	1-500 ml poly							X	X			X									X				rinsate
EB04-SA5B-121610	12.16.10	1215	water	HNO3	1-500 ml poly						X																		rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	4-40 mL clear VOA vials															X							X		rinsate
EB16-SA5B-121610	12.16.10	1120	water	HCl	3-40 mL clear VOA vials				X																				rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	1-250 mL glass																X								rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	4-1 liter ambers					X												X	X			X			rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	1-250 mL amber																				X				rinsate
EB16-SA5B-121610	12.16.10	1120	water	NaOH	1-500 ml poly																			X					rinsate
SED-011-SIV-SD-0.0-0.5	12.16.10	1418	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-013-SIV-SD-0.0-0.5	12.16.10	1526	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-017-SIV-SD-0.0-0.5	12.16.10	1045	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-019-SIV-SD-0.0-0.5	12.16.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-020-SIV-SD-0.0-0.5	12.16.10	1140	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-040-SA5B-SB-1.5-2.5	12.16.10	1007	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-040-SA5B-SB-2.0	12.16.10	1004	soil	none	5 Encore Samplers	X	X		X																				
SL-040-SA5B-SB-9.0-10.0	12.16.10	1015	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-040-SA5B-SB-9.5	12.16.10	1011	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-1.5-2.5	12.16.10	1144	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-041-SA5B-SB-2.0	12.16.10	1140	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-8.5	12.16.10	1148	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-8.0-9.0	12.16.10	1155	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-042-SA5B-SB-2.5-3.5	12.16.10	1410	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-042-SA5B-SB-3.0	12.16.10	1404	soil	none	5 Encore Samplers	X	X		X																				
SL-042-SA5B-SB-8.0-9.0	12.16.10	1418	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-042-SA5B-SB-8.5	12.16.10	1413	soil	none	5 Encore Samplers	X	X		X																				
SL-043-SA5B-SB-2.5-3.5	12.16.10	1549	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-043-SA5B-SB-3.0	12.16.10	1545	soil	none	5 Encore Samplers	X	X		X																				
SL-147-SA5B-SS-0.0-0.5	12.16.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-169-SA5B-SS-0.0-0.5	12.16.10	1337	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-172-SA5B-SS-0.0-0.5	12.16.10	1352	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-173-SA5B-SS-0.0-0.5	12.16.10	1312	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-176-SA5B-SS-0.0-0.5	12.16.10	0925	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-178-SA5B-SS-0.0-0.5	12.16.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-186-SA5B-SS-0.0-0.5	12.16.10	1056	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-187-SA5B-SS-0.0-0.5	12.16.10	1119	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-189-SA5B-SS-0.0-0.5MS	12.16.10	1125	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										MS/MSD
SL-192-SA5B-SS-0.0-0.5	12.16.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-194-SA5B-SS-0.0-0.5	12.16.10	1340	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-196-SA5B-SS-0.0-0.5	12.16.10	1312	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-198-SA5B-SS-0.0-0.5	12.16.10	1059	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-199-SA5B-SS-0.0-0.5	12.16.10	1323	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-202-SA5B-SS-0.0-0.5	12.16.10	1423	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-205-SA5B-SS-0.0-0.5	12.16.10	1432	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-284-SA5B-SS-0.0-0.5	12.16.10	1413	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-285-SA5B-SS-0.0-0.5	12.16.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-286-SA5B-SS-0.0-0.5	12.16.10	0902	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-304-SA5B-SS-0.0-0.5	12.16.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-305-SA5B-SS-0.0-0.5	12.16.10	1450	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
TB-121610	12.16.10	0800	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	
	12.16.10 1700		12/17/10 9:40	Laboratory: Lancaster Laboratories, Inc.
Relinquished by: (Signature)	Date/Time	Airbill No. 00732992		No. of coolers = 6

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/17/2010
Group Number: 1225984
SDG: DX027
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP07-SA5B-QC-121610 Soil	6167569
EB04-SA5B-121610 Water	6167570
SL-040-SA5B-SB-1.5-2.5 Soil	6167571
SL-040-SA5B-SB-9.0-10.0 Soil	6167572
SL-041-SA5B-SB-1.5-2.5 Soil	6167573
SL-041-SA5B-SB-8.0-9.0 Soil	6167574
SL-042-SA5B-SB-2.5-3.5 Soil	6167575
SL-042-SA5B-SB-8.0-9.0 Soil	6167576
SL-043-SA5B-SB-2.5-3.5 Soil	6167577
SL-205-SA5B-SS-0.0-0.5 Soil	6167578
SL-284-SA5B-SS-0.0-0.5 Soil	6167579
SL-285-SA5B-SS-0.0-0.5 Soil	6167580
SL-286-SA5B-SS-0.0-0.5 Soil	6167581
SL-304-SA5B-SS-0.0-0.5 Soil	6167582

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167569
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP07 SDG#: DX027-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167569
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP07 SDG#: DX027-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0678	J	0.0236	1.07	1
11031	12378-PeCDD	40321-76-4	0.372	JBQ	0.0527	5.36	1
11031	123478-HxCDD	39227-28-6	0.578	JB	0.0429	5.36	1
11031	123678-HxCDD	57653-85-7	2.07	JB	0.0453	5.36	1
11031	123789-HxCDD	19408-74-3	1.72	JB	0.0429	5.36	1
11031	1234678-HpCDD	35822-46-9	46.3	B	0.108	5.36	1
11031	OCDD	3268-87-9	738	B	0.111	10.7	1
11031	2378-TCDF	51207-31-9	0.246	JQ	0.0501	1.07	1
11031	12378-PeCDF	57117-41-6	0.478	JBQ	0.0241	5.36	1
11031	23478-PeCDF	57117-31-4	0.410	JB	0.0253	5.36	1
11031	123478-HxCDF	70648-26-9	0.430	JB	0.0327	5.36	1
11031	123678-HxCDF	57117-44-9	0.348	JB	0.0300	5.36	1
11031	123789-HxCDF	72918-21-9	0.386	JB	0.0364	5.36	1
11031	234678-HxCDF	60851-34-5	0.446	JB	0.0319	5.36	1
11031	1234678-HpCDF	67562-39-4	6.17	B	0.0326	5.36	1
11031	1234789-HpCDF	55673-89-7	0.436	JB	0.0424	5.36	1
11031	OCDF	39001-02-0	20.2	B	0.0412	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	92	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	87	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167569
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP07 SDG#: DX027-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP07-SA5B-QC-121610 Soil**
SSFL Area IV Collocated Soil Sampling
DUP07-SA5B-QC-121610

LLI Sample # SW 6167569
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:29 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP07 SDG#: DX027-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/22/2011 21:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

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Analysis Report

Sample Description: **EB04-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5B-121610

LLI Sample # WW 6167570
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 12:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB04 SDG#: DX027-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	1.21	U	1.21	2.27	1
10915	12378-PeCDD	40321-76-4	0.625	JBQ	0.470	11.3	1
10915	123478-HxCDD	39227-28-6	0.196	U	0.196	11.3	1
10915	123678-HxCDD	57653-85-7	0.292	JBQ	0.197	11.3	1
10915	123789-HxCDD	19408-74-3	0.249	JBQ	0.213	11.3	1
10915	1234678-HpCDD	35822-46-9	1.31	JB	0.260	11.3	1
10915	OCDD	3268-87-9	2.23	JBQ	0.333	22.7	1
10915	2378-TCDF	51207-31-9	0.227	U	0.227	2.27	1
10915	12378-PeCDF	57117-41-6	0.365	JB	0.202	11.3	1
10915	23478-PeCDF	57117-31-4	0.463	JBQ	0.160	11.3	1
10915	123478-HxCDF	70648-26-9	0.472	JB	0.174	11.3	1
10915	123678-HxCDF	57117-44-9	0.247	JB	0.167	11.3	1
10915	123789-HxCDF	72918-21-9	0.209	JB	0.171	11.3	1
10915	234678-HxCDF	60851-34-5	0.382	JBQ	0.158	11.3	1
10915	1234678-HpCDF	67562-39-4	1.32	JB	0.119	11.3	1
10915	1234789-HpCDF	55673-89-7	0.477	JBQ	0.139	11.3	1
10915	OCDF	39001-02-0	0.927	JBQ	0.301	22.7	1

The recoveries of several labeled compounds were outside QC limits in this sample and the blank and OPR associated with this sample. The sample was re-extracted outside the project specified holding time with all labeled compound recoveries within QC specification. Comparable native compound results were observed between the two extractions.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	9	25 - 164
13C12-12378-PeCDD	28	25 - 181
13C12-123478-HxCDD	36	32 - 141
13C12-123678-HxCDD	35	28 - 130
13C12-123789-HxCDD	33	28 - 130
13C12-1234678-HpCDD	41	23 - 140
13C12-OCDD	38	17 - 157
13C12-2378-TCDF	39	24 - 169
13C12-12378-PeCDF	41	24 - 185
13C12-23478-PeCDF	45	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	40	28 - 136
13C12-123789-HxCDF	42	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	39	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	18	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB04-SA5B-121610 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5B-121610

LLI Sample # WW 6167570
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 12:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB04 SDG#: DX027-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362001	12/30/2010 21:12	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10362001	12/28/2010 06:30	Ginelle L Haines	1

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Analysis Report

Sample Description: **SL-040-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167571
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4015 SDG#: DX027-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167571
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4015 SDG#: DX027-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0309	U	0.0309	1.12	1
11031	12378-PeCDD	40321-76-4	0.0484	U	0.0484	5.58	1
11031	123478-HxCDD	39227-28-6	0.0352	U	0.0352	5.58	1
11031	123678-HxCDD	57653-85-7	0.115	JBQ	0.0365	5.58	1
11031	123789-HxCDD	19408-74-3	0.286	JBQ	0.0359	5.58	1
11031	1234678-HpCDD	35822-46-9	0.724	JB	0.0575	5.58	1
11031	OCDD	3268-87-9	6.26	JB	0.0610	11.2	1
11031	2378-TCDF	51207-31-9	0.0286	U	0.0286	1.12	1
11031	12378-PeCDF	57117-41-6	0.106	JBQ	0.0172	5.58	1
11031	23478-PeCDF	57117-31-4	0.118	JBQ	0.0175	5.58	1
11031	123478-HxCDF	70648-26-9	0.0779	JBQ	0.0257	5.58	1
11031	123678-HxCDF	57117-44-9	0.0746	JBQ	0.0235	5.58	1
11031	123789-HxCDF	72918-21-9	0.285	JB	0.0290	5.58	1
11031	234678-HxCDF	60851-34-5	0.0764	JB	0.0246	5.58	1
11031	1234678-HpCDF	67562-39-4	0.321	JB	0.0223	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0482	JB	0.0300	5.58	1
11031	OCDF	39001-02-0	0.366	JBQ	0.0491	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-040-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167571
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4015 SDG#: DX027-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-040-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-1.5-2.5

LLI Sample # SW 6167571
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:07 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4015 SDG#: DX027-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/22/2011 22:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-040-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167572
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4091 SDG#: DX027-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167572
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4091 SDG#: DX027-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0674	U	0.0674	1.18	1
11031	12378-PeCDD	40321-76-4	0.0832	U	0.0832	5.90	1
11031	123478-HxCDD	39227-28-6	0.0588	U	0.0588	5.90	1
11031	123678-HxCDD	57653-85-7	0.359	JB	0.0612	5.90	1
11031	123789-HxCDD	19408-74-3	0.363	JBQ	0.0648	5.90	1
11031	1234678-HpCDD	35822-46-9	2.54	JB	0.101	5.90	1
11031	OCDD	3268-87-9	18.9	B	0.126	11.8	1
11031	2378-TCDF	51207-31-9	0.0698	U	0.0698	1.18	1
11031	12378-PeCDF	57117-41-6	0.118	JB	0.0368	5.90	1
11031	23478-PeCDF	57117-31-4	0.201	JBQ	0.0360	5.90	1
11031	123478-HxCDF	70648-26-9	0.129	JB	0.0482	5.90	1
11031	123678-HxCDF	57117-44-9	0.166	JB	0.0434	5.90	1
11031	123789-HxCDF	72918-21-9	0.156	JBQ	0.0511	5.90	1
11031	234678-HxCDF	60851-34-5	0.132	JBQ	0.0451	5.90	1
11031	1234678-HpCDF	67562-39-4	0.697	JB	0.0497	5.90	1
11031	1234789-HpCDF	55673-89-7	0.0962	JBQ	0.0617	5.90	1
11031	OCDF	39001-02-0	1.08	JB	0.0811	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	38	25 - 164
13C12-12378-PeCDD	39	25 - 181
13C12-123478-HxCDD	45	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	44	28 - 130
13C12-1234678-HpCDD	45	23 - 140
13C12-OCDD	45	17 - 157
13C12-2378-TCDF	40	24 - 169
13C12-12378-PeCDF	42	24 - 185
13C12-23478-PeCDF	41	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	49	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	51	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	43	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167572
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4091 SDG#: DX027-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5B-SB-9.0-10.0

LLI Sample # SW 6167572
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 10:15 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4091 SDG#: DX027-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/22/2011 23:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-041-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167573
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4115 SDG#: DX027-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-041-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167573
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4115 SDG#: DX027-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0306 U	0.0306	1.19	1
11031	12378-PeCDD	40321-76-4	0.0716 JB	0.0451	5.95	1
11031	123478-HxCDD	39227-28-6	0.0694 JBQ	0.0337	5.95	1
11031	123678-HxCDD	57653-85-7	0.0579 JBQ	0.0352	5.95	1
11031	123789-HxCDD	19408-74-3	0.154 JBQ	0.0349	5.95	1
11031	1234678-HpCDD	35822-46-9	0.398 JB	0.0436	5.95	1
11031	OCDD	3268-87-9	1.79 JB	0.0675	11.9	1
11031	2378-TCDF	51207-31-9	0.0395 U	0.0395	1.19	1
11031	12378-PeCDF	57117-41-6	0.0612 JBQ	0.0176	5.95	1
11031	23478-PeCDF	57117-31-4	0.0750 JBQ	0.0180	5.95	1
11031	123478-HxCDF	70648-26-9	0.0595 JB	0.0250	5.95	1
11031	123678-HxCDF	57117-44-9	0.0702 JB	0.0217	5.95	1
11031	123789-HxCDF	72918-21-9	0.193 JBQ	0.0293	5.95	1
11031	234678-HxCDF	60851-34-5	0.0832 JBQ	0.0233	5.95	1
11031	1234678-HpCDF	67562-39-4	0.242 JB	0.0258	5.95	1
11031	1234789-HpCDF	55673-89-7	0.0511 JBQ	0.0368	5.95	1
11031	OCDF	39001-02-0	0.254 JBQ	0.0463	11.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167573
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4115 SDG#: DX027-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5B-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-1.5-2.5

LLI Sample # SW 6167573
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:44 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4115 SDG#: DX027-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 00:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-041-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167574
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4189 SDG#: DX027-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-041-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167574
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4189 SDG#: DX027-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0318 U	0.0318	1.11	1
11031	12378-PeCDD	40321-76-4	0.0810 JBQ	0.0498	5.54	1
11031	123478-HxCDD	39227-28-6	0.0398 U	0.0398	5.54	1
11031	123678-HxCDD	57653-85-7	0.340 JBQ	0.0409	5.54	1
11031	123789-HxCDD	19408-74-3	0.299 JB	0.0416	5.54	1
11031	1234678-HpCDD	35822-46-9	4.35 JB	0.0553	5.54	1
11031	OCDD	3268-87-9	44.8 B	0.0818	11.1	1
11031	2378-TCDF	51207-31-9	0.0392 U	0.0392	1.11	1
11031	12378-PeCDF	57117-41-6	0.0185 U	0.0185	5.54	1
11031	23478-PeCDF	57117-31-4	0.172 JBQ	0.0185	5.54	1
11031	123478-HxCDF	70648-26-9	0.124 JBQ	0.0328	5.54	1
11031	123678-HxCDF	57117-44-9	0.132 JBQ	0.0310	5.54	1
11031	123789-HxCDF	72918-21-9	0.0350 U	0.0350	5.54	1
11031	234678-HxCDF	60851-34-5	0.154 JB	0.0315	5.54	1
11031	1234678-HpCDF	67562-39-4	0.802 JB	0.0391	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0996 JBQ	0.0478	5.54	1
11031	OCDF	39001-02-0	1.52 JB	0.0519	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167574
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4189 SDG#: DX027-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5B-SB-8.0-9.0

LLI Sample # SW 6167574
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 11:55 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4189 SDG#: DX027-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 01:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167575
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4225 SDG#: DX027-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167575
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4225 SDG#: DX027-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0397	U	0.0397	1.12	1
11031	12378-PeCDD	40321-76-4	0.105	JBQ	0.0558	5.58	1
11031	123478-HxCDD	39227-28-6	0.0597	JBQ	0.0440	5.58	1
11031	123678-HxCDD	57653-85-7	0.261	JBQ	0.0455	5.58	1
11031	123789-HxCDD	19408-74-3	0.249	JBQ	0.0464	5.58	1
11031	1234678-HpCDD	35822-46-9	2.11	JBQ	0.0823	5.58	1
11031	OCDD	3268-87-9	22.6	B	0.124	11.2	1
11031	2378-TCDF	51207-31-9	0.0441	U	0.0441	1.12	1
11031	12378-PeCDF	57117-41-6	0.0959	JBQ	0.0256	5.58	1
11031	23478-PeCDF	57117-31-4	0.227	JBQ	0.0234	5.58	1
11031	123478-HxCDF	70648-26-9	0.178	JB	0.0471	5.58	1
11031	123678-HxCDF	57117-44-9	0.155	JB	0.0477	5.58	1
11031	123789-HxCDF	72918-21-9	0.234	JB	0.0610	5.58	1
11031	234678-HxCDF	60851-34-5	0.307	JB	0.0518	5.58	1
11031	1234678-HpCDF	67562-39-4	0.929	JB	0.0609	5.58	1
11031	1234789-HpCDF	55673-89-7	0.222	JB	0.0724	5.58	1
11031	OCDF	39001-02-0	1.23	JB	0.183	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167575
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4225 SDG#: DX027-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-2.5-3.5

LLI Sample # SW 6167575
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:10 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4225 SDG#: DX027-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 05:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167576
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4289 SDG#: DX027-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167576
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4289 SDG#: DX027-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0732	U	0.0732	1.13	1
11031	12378-PeCDD	40321-76-4	0.226	JB	0.131	5.63	1
11031	123478-HxCDD	39227-28-6	0.115	JBQ	0.111	5.63	1
11031	123678-HxCDD	57653-85-7	0.235	JBQ	0.116	5.63	1
11031	123789-HxCDD	19408-74-3	0.199	JB	0.111	5.63	1
11031	1234678-HpCDD	35822-46-9	1.01	JBQ	0.184	5.63	1
11031	OCDD	3268-87-9	5.22	JB	0.225	11.3	1
11031	2378-TCDF	51207-31-9	0.0543	U	0.0543	1.13	1
11031	12378-PeCDF	57117-41-6	0.167	JBQ	0.0561	5.63	1
11031	23478-PeCDF	57117-31-4	0.119	JBQ	0.0486	5.63	1
11031	123478-HxCDF	70648-26-9	0.138	JBQ	0.0758	5.63	1
11031	123678-HxCDF	57117-44-9	0.210	JBQ	0.0742	5.63	1
11031	123789-HxCDF	72918-21-9	0.224	JBQ	0.0898	5.63	1
11031	234678-HxCDF	60851-34-5	0.253	JBQ	0.0732	5.63	1
11031	1234678-HpCDF	67562-39-4	0.778	JB	0.0983	5.63	1
11031	1234789-HpCDF	55673-89-7	0.232	JB	0.122	5.63	1
11031	OCDF	39001-02-0	0.900	JB	0.230	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167576
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4289 SDG#: DX027-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-042-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5B-SB-8.0-9.0

LLI Sample # SW 6167576
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:18 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4289 SDG#: DX027-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 06:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-043-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167577
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4325 SDG#: DX027-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-043-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167577
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4325 SDG#: DX027-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0707	U	0.0707	1.11	1
11031	12378-PeCDD	40321-76-4	0.120	JBQ	0.101	5.54	1
11031	123478-HxCDD	39227-28-6	0.0795	U	0.0795	5.54	1
11031	123678-HxCDD	57653-85-7	0.0823	U	0.0823	5.54	1
11031	123789-HxCDD	19408-74-3	0.192	JBQ	0.0805	5.54	1
11031	1234678-HpCDD	35822-46-9	1.92	JB	0.208	5.54	1
11031	OCDD	3268-87-9	11.3	B	0.247	11.1	1
11031	2378-TCDF	51207-31-9	0.106	JQ	0.0720	1.11	1
11031	12378-PeCDF	57117-41-6	0.184	JBQ	0.0457	5.54	1
11031	23478-PeCDF	57117-31-4	0.0439	U	0.0439	5.54	1
11031	123478-HxCDF	70648-26-9	0.128	JBQ	0.0618	5.54	1
11031	123678-HxCDF	57117-44-9	0.228	JB	0.0600	5.54	1
11031	123789-HxCDF	72918-21-9	0.170	JBQ	0.0679	5.54	1
11031	234678-HxCDF	60851-34-5	0.268	JBQ	0.0561	5.54	1
11031	1234678-HpCDF	67562-39-4	0.844	JB	0.0844	5.54	1
11031	1234789-HpCDF	55673-89-7	0.129	JBQ	0.110	5.54	1
11031	OCDF	39001-02-0	1.58	JBQ	0.208	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	93	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	88	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-043-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167577
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4325 SDG#: DX027-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-043-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5B-SB-2.5-3.5

LLI Sample # SW 6167577
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:49 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4325 SDG#: DX027-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 06:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167578
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-205 SDG#: DX027-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167578
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-205 SDG#: DX027-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0781	JQ	0.0380	1.06	1
11031	12378-PeCDD	40321-76-4	0.161	JBQ	0.0674	5.28	1
11031	123478-HxCDD	39227-28-6	0.266	JBQ	0.0663	5.28	1
11031	123678-HxCDD	57653-85-7	0.753	JB	0.0674	5.28	1
11031	123789-HxCDD	19408-74-3	0.862	JBQ	0.0680	5.28	1
11031	1234678-HpCDD	35822-46-9	9.52	B	0.0954	5.28	1
11031	OCDD	3268-87-9	119	B	0.122	10.6	1
11031	2378-TCDF	51207-31-9	0.120	JQ	0.0621	1.06	1
11031	12378-PeCDF	57117-41-6	0.252	JB	0.0367	5.28	1
11031	23478-PeCDF	57117-31-4	0.421	JB	0.0350	5.28	1
11031	123478-HxCDF	70648-26-9	0.240	JB	0.0589	5.28	1
11031	123678-HxCDF	57117-44-9	0.303	JBQ	0.0539	5.28	1
11031	123789-HxCDF	72918-21-9	0.434	JBQ	0.0640	5.28	1
11031	234678-HxCDF	60851-34-5	0.418	JBQ	0.0541	5.28	1
11031	1234678-HpCDF	67562-39-4	2.29	JB	0.0510	5.28	1
11031	1234789-HpCDF	55673-89-7	0.262	JB	0.0666	5.28	1
11031	OCDF	39001-02-0	4.61	JB	0.0867	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167578
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-205 SDG#: DX027-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SS-0.0-0.5

LLI Sample # SW 6167578
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:32 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-205 SDG#: DX027-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 07:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-284-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167579
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-284 SDG#: DX027-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-284-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167579
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-284 SDG#: DX027-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.321	JQ	0.0614	1.14	1
11031	12378-PeCDD	40321-76-4	4.68	JB	0.149	5.68	1
11031	123478-HxCDD	39227-28-6	10.4	B	0.112	5.68	1
11031	123678-HxCDD	57653-85-7	42.3	B	0.117	5.68	1
11031	123789-HxCDD	19408-74-3	22.3	B	0.115	5.68	1
11031	1234678-HpCDD	35822-46-9	993	B	0.347	5.68	1
11031	OCDD	3268-87-9	9,210	EB	0.247	11.4	1
11031	2378-TCDF	51207-31-9	0.951	J	0.141	1.14	1
11031	12378-PeCDF	57117-41-6	3.31	JB	0.0544	5.68	1
11031	23478-PeCDF	57117-31-4	2.12	JB	0.0555	5.68	1
11031	123478-HxCDF	70648-26-9	4.17	JBQ	0.0946	5.68	1
11031	123678-HxCDF	57117-44-9	5.18	JB	0.0897	5.68	1
11031	123789-HxCDF	72918-21-9	1.41	JB	0.108	5.68	1
11031	234678-HxCDF	60851-34-5	8.68	B	0.0897	5.68	1
11031	1234678-HpCDF	67562-39-4	131	B	0.0901	5.68	1
11031	1234789-HpCDF	55673-89-7	9.87	B	0.114	5.68	1
11031	OCDF	39001-02-0	348	B	0.0805	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	89	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-284-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167579
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-284 SDG#: DX027-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-284-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-284-SA5B-SS-0.0-0.5

LLI Sample # SW 6167579
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 14:13 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-284 SDG#: DX027-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 08:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-285-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167580
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-285 SDG#: DX027-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-285-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167580
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-285 SDG#: DX027-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.376	J	0.126	1.09	1
11031	12378-PeCDD	40321-76-4	3.72	JBQ	0.264	5.46	1
11031	123478-HxCDD	39227-28-6	7.80	B	0.124	5.46	1
11031	123678-HxCDD	57653-85-7	33.3	B	0.125	5.46	1
11031	123789-HxCDD	19408-74-3	16.4	B	0.126	5.46	1
11031	1234678-HpCDD	35822-46-9	840	B	0.348	5.46	1
11031	OCDD	3268-87-9	7,290	EB	0.329	10.9	1
11031	2378-TCDF	51207-31-9	1.24		0.203	1.09	1
11650	2378-TCDF-Conf	51207-31-9	1.87	B	0.0455	1.09	1
11031	12378-PeCDF	57117-41-6	5.76	B	0.0966	5.46	1
11031	23478-PeCDF	57117-31-4	2.94	JB	0.0892	5.46	1
11031	123478-HxCDF	70648-26-9	3.59	JB	0.116	5.46	1
11031	123678-HxCDF	57117-44-9	4.21	JB	0.110	5.46	1
11031	123789-HxCDF	72918-21-9	1.10	JBQ	0.131	5.46	1
11031	234678-HxCDF	60851-34-5	5.49	B	0.111	5.46	1
11031	1234678-HpCDF	67562-39-4	108	B	0.131	5.46	1
11031	1234789-HpCDF	55673-89-7	8.62	B	0.147	5.46	1
11031	OCDF	39001-02-0	252	B	0.0989	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-2378-TCDF-Conf	70	24 - 169
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	89	26 - 138
13C12-OCDF	89	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-285-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167580
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-285 SDG#: DX027-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-285-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-285-SA5B-SS-0.0-0.5

LLI Sample # SW 6167580
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:20 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-285 SDG#: DX027-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 09:46	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11010001	02/07/2011 07:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-286-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167581
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-286 SDG#: DX027-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-286-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167581
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-286 SDG#: DX027-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.240	JQ	0.125	1.17	1
11031	12378-PeCDD	40321-76-4	3.28	JB	0.308	5.86	1
11031	123478-HxCDD	39227-28-6	5.93	B	0.150	5.86	1
11031	123678-HxCDD	57653-85-7	23.6	B	0.152	5.86	1
11031	123789-HxCDD	19408-74-3	11.8	B	0.146	5.86	1
11031	1234678-HpCDD	35822-46-9	522	B	0.393	5.86	1
11031	OCDD	3268-87-9	6,230	EB	0.333	11.7	1
11031	2378-TCDF	51207-31-9	1.51		0.240	1.17	1
11650	2378-TCDF-Conf	51207-31-9	1.44	B	0.0496	1.17	1
11031	12378-PeCDF	57117-41-6	5.80	JB	0.108	5.86	1
11031	23478-PeCDF	57117-31-4	2.96	JB	0.104	5.86	1
11031	123478-HxCDF	70648-26-9	3.62	JB	0.137	5.86	1
11031	123678-HxCDF	57117-44-9	4.15	JB	0.130	5.86	1
11031	123789-HxCDF	72918-21-9	1.28	JBQ	0.148	5.86	1
11031	234678-HxCDF	60851-34-5	4.36	JB	0.129	5.86	1
11031	1234678-HpCDF	67562-39-4	65.7	B	0.123	5.86	1
11031	1234789-HpCDF	55673-89-7	5.96	B	0.148	5.86	1
11031	OCDF	39001-02-0	143	B	0.126	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	95	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-286-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167581
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-286 SDG#: DX027-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-286-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-286-SA5B-SS-0.0-0.5

LLI Sample # SW 6167581
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 09:02 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-286 SDG#: DX027-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 10:43	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11010001	02/07/2011 09:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-304-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167582
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-304 SDG#: DX027-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-304-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167582
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-304 SDG#: DX027-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.127	JQ	0.0676	1.06	1
11031	12378-PeCDD	40321-76-4	0.451	JBQ	0.0984	5.31	1
11031	123478-HxCDD	39227-28-6	0.510	JBQ	0.0967	5.31	1
11031	123678-HxCDD	57653-85-7	1.90	JB	0.0992	5.31	1
11031	123789-HxCDD	19408-74-3	1.62	JBQ	0.0977	5.31	1
11031	1234678-HpCDD	35822-46-9	40.4	B	0.144	5.31	1
11031	OCDD	3268-87-9	491	B	0.172	10.6	1
11031	2378-TCDF	51207-31-9	0.239	JQ	0.0898	1.06	1
11031	12378-PeCDF	57117-41-6	0.605	JBQ	0.0484	5.31	1
11031	23478-PeCDF	57117-31-4	0.368	JBQ	0.0459	5.31	1
11031	123478-HxCDF	70648-26-9	0.568	JBQ	0.0813	5.31	1
11031	123678-HxCDF	57117-44-9	0.454	JB	0.0760	5.31	1
11031	123789-HxCDF	72918-21-9	0.506	JB	0.0907	5.31	1
11031	234678-HxCDF	60851-34-5	0.650	JB	0.0788	5.31	1
11031	1234678-HpCDF	67562-39-4	5.87	B	0.0850	5.31	1
11031	1234789-HpCDF	55673-89-7	0.595	JB	0.112	5.31	1
11031	OCDF	39001-02-0	15.1	B	0.100	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-304-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167582
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-304 SDG#: DX027-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-304-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SS-0.0-0.5

LLI Sample # SW 6167582
LLI Group # 1225984
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/16/2010 15:10 by PH

Submitted: 12/17/2010 09:40
Reported: 02/21/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-304 SDG#: DX027-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11010001	01/23/2011 11:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11010001	01/10/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225984
Reported: 02/21/11 at 05:40 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10364162402A	Sample number(s): 6167569,6167578-6167582									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11011162401A	Sample number(s): 6167571-6167577									
28a Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10362001	Sample number(s): 6167570									
2378-TCDD	2.81		1.76	2.00	pg/l	89		67-158		
12378-PeCDD	0.684	J	0.492	10.0	pg/l	96		70-142		
123478-HxCDD	0.485	J	0.235	10.0	pg/l	106		70-164		
123678-HxCDD	0.512	J	0.243	10.0	pg/l	104		76-134		
123789-HxCDD	0.483	J	0.269	10.0	pg/l	106		64-162		
1234678-HpCDD	1.35	J	0.246	10.0	pg/l	108		70-140		
OCDD	2.39	J	0.274	20.0	pg/l	118		78-144		
2378-TCDF	0.181	J	0.166	2.00	pg/l	95		75-158		
12378-PeCDF	0.474	J	0.125	10.0	pg/l	104		80-134		
23478-PeCDF	0.810	J	0.113	10.0	pg/l	102		68-160		
123478-HxCDF	0.599	J	0.136	10.0	pg/l	111		72-134		
123678-HxCDF	0.568	J	0.132	10.0	pg/l	113		84-130		
123789-HxCDF	0.637	J	0.143	10.0	pg/l	111		78-130		
234678-HxCDF	0.505	J	0.136	10.0	pg/l	109		70-156		
1234678-HpCDF	1.41	J	0.122	10.0	pg/l	116		82-122		
1234789-HpCDF	0.582	J	0.148	10.0	pg/l	117		78-138		
OCDF	1.43	J	0.269	20.0	pg/l	122		63-170		
Batch number: 11010001	Sample number(s): 6167569,6167571-6167582									
2378-TCDD	0.0293	U	0.0293	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0608	J	0.0428	5.00	ng/kg	88		70-142		
123478-HxCDD	0.0408	J	0.0261	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0362	J	0.0274	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0701	J	0.0265	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.213	J	0.0479	5.00	ng/kg	94		70-140		
OCDD	0.888	J	0.0565	10.0	ng/kg	95		78-144		
2378-TCDF	0.0319	U	0.0319	1.00	ng/kg	97		75-158		
2378-TCDF-Conf	0.333	J	0.0271	1.00	ng/kg					
12378-PeCDF	0.0446	J	0.0174	5.00	ng/kg	95		80-134		
23478-PeCDF	0.129	J	0.0191	5.00	ng/kg	95		68-160		
123478-HxCDF	0.118	J	0.0263	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0803	J	0.0234	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0864	J	0.0299	5.00	ng/kg	96		78-130		
234678-HxCDF	0.179	J	0.0256	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.415	J	0.0245	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.104	J	0.0357	5.00	ng/kg	95		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225984
Reported: 02/21/11 at 05:40 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.280 J	0.0484	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10364162402A	Sample number(s): 6167569,6167578-6167582					BKG: P167525			
28a Moisture Content by 160.3						11.9	12.1	1	20
Batch number: 11011162401A	Sample number(s): 6167571-6167577					BKG: P167523			
28a Moisture Content by 160.3						9.7	9.7	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 10362001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6167570	9*	45	39	38	40	42
Blank	6*	70	67	66	66	69
OPR	10*	63	56	55	57	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6167570	40	39	37	18*	28	36
Blank	64	61	54	11*	32	58
OPR	55	54	48	17*	37	52
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6167570	35	33	41	38	39	41
Blank	54	49	63	55	57	68
OPR	50	46	56	48	51	60
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11010001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6167569	81	81	92	97	94	93

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225984
Reported: 02/21/11 at 05:40 PM

Surrogate Quality Control

6167571	69	69	82	85	82	83
6167572	38	41	48	50	49	49
6167573	69	70	80	88	81	76
6167574	72	77	88	88	86	86
6167575	76	77	89	88	89	86
6167576	75	76	84	83	84	81
6167577	78	84	93	95	96	94
6167578	77	79	89	91	90	89
6167579	74	79	91	93	91	89
6167580	69	75	84	85	85	86
6167581	78	86	90	89	91	92
6167582	63	70	81	83	81	82
Blank	76	78	90	98	91	87
OPR	76	77	88	94	90	91
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6167569	96	91	87	86	78	88
6167571	87	78	75	79	66	75
6167572	51	49	49	43	39	45
6167573	93	76	73	83	69	76
6167574	87	88	84	80	72	79
6167575	79	73	44	83	75	84
6167576	81	78	69	81	74	77
6167577	100	92	88	87	81	89
6167578	95	86	81	87	75	83
6167579	94	89	85	84	78	85
6167580	85	89	89	80	72	78
6167581	95	96	95	87	83	83
6167582	86	80	76	76	68	75
Blank	106	87	82	92	77	89
OPR	96	89	87	86	76	84
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6167569	84	86	89	86	81	87
6167571	75	76	72	73	70	73
6167572	45	44	45	45	40	42
6167573	76	75	79	77	69	78
6167574	77	78	80	77	75	77
6167575	79	79	70	51	77	74
6167576	76	78	75	72	76	71
6167577	87	89	88	87	78	83
6167578	83	85	84	84	76	80
6167579	83	84	85	87	76	83
6167580	79	77	80	81	72	74
6167581	82	83	91	95	79	87
6167582	75	74	75	74	66	70
Blank	85	84	89	87	77	87
OPR	82	84	85	86	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1225984
Reported: 02/21/11 at 05:40 PM

Surrogate Quality Control

	13C12-2378-TCDF-Conf
6167569	
6167571	
6167572	
6167573	
6167574	
6167575	
6167576	
6167577	
6167578	
6167579	
6167580	70
6167581	78
6167582	
Blank	81
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1225984 61667569-83

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7196@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 8550	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP07-SA5B-QC-121610	12.16.10	1129	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									DUP
EB04-SA5B-121610	12.16.10	1215	water	none	6-1 liter ambers			X						X	X			X	X										rinsate
EB04-SA5B-121610	12.16.10	1215	water	none	1-500 ml poly							X	X			X										X			rinsate
EB04-SA5B-121610	12.16.10	1215	water	HNO3	1-500 ml poly						X																X		rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	4-40 mL clear VOA vials															X								X	rinsate
EB16-SA5B-121610	12.16.10	1120	water	HCl	3-40 mL clear VOA vials				X												X								rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	1-250 mL glass																	X							rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	4-1 liter ambers					X													X	X			X		rinsate
EB16-SA5B-121610	12.16.10	1120	water	none	1-250 mL amber																					X			rinsate
EB16-SA5B-121610	12.16.10	1120	water	NaOH	1-500 ml poly																				X				rinsate
SED-011-SIV-SD-0.0-0.5	12.16.10	1418	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SED-013-SIV-SD-0.0-0.5	12.16.10	1526	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-017-SIV-SD-0.0-0.5	12.16.10	1045	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-019-SIV-SD-0.0-0.5	12.16.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-020-SIV-SD-0.0-0.5	12.16.10	1140	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-040-SA5B-SB-1.5-2.5	12.16.10	1007	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA5B-SB-2.0	12.16.10	1004	soil	none	5 Encore Samplers	X	X		X																				
SL-040-SA5B-SB-9.0-10.0	12.16.10	1015	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-040-SA5B-SB-9.5	12.16.10	1011	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-1.5-2.5	12.16.10	1144	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-041-SA5B-SB-2.0	12.16.10	1140	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-8.5	12.16.10	1148	soil	none	5 Encore Samplers	X	X		X																				
SL-041-SA5B-SB-8.0-9.0	12.16.10	1155	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-2.5-3.5	12.16.10	1410	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-3.0	12.16.10	1404	soil	none	5 Encore Samplers	X	X		X																				
SL-042-SA5B-SB-8.0-9.0	12.16.10	1418	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-042-SA5B-SB-8.5	12.16.10	1413	soil	none	5 Encore Samplers	X	X		X																				
SL-043-SA5B-SB-2.5-3.5	12.16.10	1549	soil	none	3 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-043-SA5B-SB-3.0	12.16.10	1545	soil	none	5 Encore Samplers	X	X		X																				
SL-147-SA5B-SS-0.0-0.5	12.16.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-169-SA5B-SS-0.0-0.5	12.16.10	1337	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-172-SA5B-SS-0.0-0.5	12.16.10	1352	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-173-SA5B-SS-0.0-0.5	12.16.10	1312	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-176-SA5B-SS-0.0-0.5	12.16.10	0925	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-178-SA5B-SS-0.0-0.5	12.16.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-186-SA5B-SS-0.0-0.5	12.16.10	1056	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-187-SA5B-SS-0.0-0.5	12.16.10	1119	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-189-SA5B-SS-0.0-0.5MS	12.16.10	1125	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										MS/MSD
SL-192-SA5B-SS-0.0-0.5	12.16.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-194-SA5B-SS-0.0-0.5	12.16.10	1340	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-196-SA5B-SS-0.0-0.5	12.16.10	1312	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-198-SA5B-SS-0.0-0.5	12.16.10	1059	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-199-SA5B-SS-0.0-0.5	12.16.10	1323	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-202-SA5B-SS-0.0-0.5	12.16.10	1423	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-205-SA5B-SS-0.0-0.5	12.16.10	1432	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-284-SA5B-SS-0.0-0.5	12.16.10	1413	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-285-SA5B-SS-0.0-0.5	12.16.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-286-SA5B-SS-0.0-0.5	12.16.10	0902	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-304-SA5B-SS-0.0-0.5	12.16.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-305-SA5B-SS-0.0-0.5	12.16.10	1450	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
TB-121610	12.16.10	0800	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature) — Date/Time 12.16.10 1700 — Received for Laboratory by: (Signature) — Date/Time 12/17/10 0940

Received by: (Signature) — Date/Time — Airbill No. 00732992

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 6

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/18/2010
Group Number: 1226237
SDG: DE044
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-207-SA5B-SS-0.0-0.5 Soil	6168975
SL-208-SA5B-SS-0.0-0.5 Soil	6168976
SL-276-SA5B-SS-0.0-0.5 Soil	6168977
SL-210-SA5B-SS-0.0-0.5 Soil	6168978
SL-275-SA5B-SS-0.0-0.5 Soil	6168979
SL-206-SA5B-SS-0.0-0.5 Soil	6168980
SL-209-SA5B-SS-0.0-0.5 Soil	6168981
SL-161-SA5B-SS-0.0-0.5 Soil	6168982
SL-162-SA5B-SS-0.0-0.5 Soil	6168983
SL-274-SA5B-SS-0.0-0.5 Soil	6168984
SL-166-SA5B-SS-0.0-0.5 Soil	6168985
SL-160-SA5B-SS-0.0-0.5 Soil	6168986
SL-211-SA5B-SS-0.0-0.5 Soil	6168987
SL-211-SA5B-SS-0.0-0.5MS Soil	6168988
SL-211-SA5B-SS-0.0-0.5MSD Soil	6168989
SL-211-SA5B-SS-0.0-0.5DUP Soil	6168990
SL-278-SA5B-SS-0.0-0.5 Soil	6168991
SL-279-SA5B-SS-0.0-0.5 Soil	6168992
SL-277-SA5B-SS-0.0-0.5 Soil	6168993
SL-273-SA5B-SS-0.0-0.5 Soil	6168994
SL-272-SA5B-SS-0.0-0.5 Soil	6168995

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-207-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168975
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE044-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	37	J	18	350	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-207-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168975
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE044-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.63	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	4.8		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	8.6		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.89	J	0.71	1.8	1
10138	Naphthalene	91-20-3	1.0	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	5.6		0.71	1.8	1
10138	Pyrene	129-00-0	6.7		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	12		0.66	1.8	1
10401	Dicamba	1918-00-9	0.68	J	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	1,000		81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.31		0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-207-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168975
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE044-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.36	1
01363	p,p-DDE	72-55-9	0.27	U	0.27	0.36	1
01363	p,p-DDT	50-29-3	0.53	U	0.53	0.53	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.20	U	0.20	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	5.9		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	6.7		0.35	1.8	1
10225	PCB-1260	11096-82-5	4.4		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.18	20.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-207-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168975
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4401 SDG#: DE044-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	7.18		0.917	5.15	1
01650	Calcium	7440-70-2	2,900		6.32	20.6	1
01654	Iron	7439-89-6	22,500		4.85	20.6	1
01656	Lithium	7439-93-2	24.8		0.23	2.1	1
01657	Magnesium	7439-95-4	4,680		2.62	10.3	1
06958	Manganese	7439-96-5	267		0.0804	0.515	1
10145	Phosphorus	7723-14-0	403		0.577	10.3	1
01662	Potassium	7440-09-7	3,050		18.6	51.5	1
01667	Sodium	7440-23-5	92.7	J	38.4	103	1
07968	Strontium	7440-24-6	21.8		0.0639	0.515	1
06969	Tin	7440-31-5	2.63	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,150		0.392	1.03	1
10146	Zirconium	7440-67-7	1.26	J	0.866	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0631	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.86		0.0631	0.420	2
06126	Barium	7440-39-3	87.5		0.114	0.420	2
06127	Beryllium	7440-41-7	0.551		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.259		0.0378	0.105	2
06131	Chromium	7440-47-3	21.7		0.126	0.420	2
06132	Cobalt	7440-48-4	4.84		0.0210	0.105	2
06133	Copper	7440-50-8	10.3		0.0694	0.420	2
06135	Lead	7439-92-1	9.79		0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.673		0.0526	0.105	2
06139	Nickel	7440-02-0	13.1		0.105	0.420	2
06141	Selenium	7782-49-2	0.144	J	0.0420	0.420	2
06142	Silver	7440-22-4	5.89		0.0126	0.105	2
06145	Thallium	7440-28-0	0.218		0.0315	0.105	2
06148	Vanadium	7440-62-2	27.7		0.0231	0.105	2
06149	Zinc	7440-66-6	59.9		0.589	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0151	J	0.0029	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.97	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-207-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168975
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
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E4401 SDG#: DE044-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	483	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 03:50	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 10:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 11:16	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/16/2011 22:54	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/01/2011 00:33	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-207-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168975
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE044-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 22:45	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 16:26	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 05:55	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/19/2011 22:54	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-208-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168976
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE044-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Fluoranthene	206-44-0	20	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-208-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168976
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE044-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenanthrene	85-01-8	31	J	17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.97	J	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	2.5		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.3	19	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.95	J	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.80	J	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	13	J	6.3	19	1
10138	Pyrene	129-00-0	3.2		0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	22		0.65	1.8	1
10401	Dicamba	1918-00-9	0.75	J	0.42	1.3	1
10401	Dinoseb	88-85-7	1.2	J	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	700		80	260	1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168976
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE044-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.26	U	0.26	0.36	1
01363	p,p-DDT	50-29-3	0.16	U	0.16	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.085	U	0.085	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.67	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168976
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE044-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		5.12	20.4	1
07914	Boron	7440-42-8	5.80		0.907	5.09	1
01650	Calcium	7440-70-2	2,650		6.24	20.4	1
01654	Iron	7439-89-6	21,300		4.80	20.4	1
01656	Lithium	7439-93-2	20.8		0.22	2.0	1
01657	Magnesium	7439-95-4	4,330		2.59	10.2	1
06958	Manganese	7439-96-5	263		0.0795	0.509	1
10145	Phosphorus	7723-14-0	406		0.571	10.2	1
01662	Potassium	7440-09-7	3,220		18.3	50.9	1
01667	Sodium	7440-23-5	79.1	J	38.0	102	1
07968	Strontium	7440-24-6	19.9		0.0632	0.509	1
06969	Tin	7440-31-5	2.40	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,180		0.387	1.02	1
10146	Zirconium	7440-67-7	1.15	J	0.856	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0665	J	0.0623	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.50		0.0623	0.416	2
06126	Barium	7440-39-3	89.3		0.112	0.416	2
06127	Beryllium	7440-41-7	0.586		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.130		0.0374	0.104	2
06131	Chromium	7440-47-3	18.9		0.125	0.416	2
06132	Cobalt	7440-48-4	4.86		0.0208	0.104	2
06133	Copper	7440-50-8	8.13		0.0686	0.416	2
06135	Lead	7439-92-1	8.73		0.0108	0.208	2
06138	Molybdenum	7439-98-7	0.545		0.0519	0.104	2
06139	Nickel	7440-02-0	10.7		0.104	0.416	2
06141	Selenium	7782-49-2	0.159	J	0.0416	0.416	2
06142	Silver	7440-22-4	0.140		0.0125	0.104	2
06145	Thallium	7440-28-0	0.246		0.0312	0.104	2
06148	Vanadium	7440-62-2	30.1		0.0229	0.104	2
06149	Zinc	7440-66-6	55.0		0.582	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	J	0.0028	0.0991	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.78	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168976
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE044-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	491	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.85	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 04:25	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 10:49	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 12:38	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/16/2011 23:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/01/2011 00:51	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-208-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168976
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE044-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 22:56	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 16:44	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 07:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/19/2011 23:02	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-276-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168977
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE044-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-276-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168977
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE044-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.48	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	3.0		0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	3.1		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.9		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	3.5		0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.8		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	6.1		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	J	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	5.4		0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.1		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	1.6	J	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	2.1		0.69	1.7	1
10138	Naphthalene	91-20-3	1.6	J	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	14	J	6.3	19	1
10138	Phenanthrene	85-01-8	4.0		0.69	1.7	1
10138	Pyrene	129-00-0	4.8		0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.63	U	0.63	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	920		79	260	1
10401	MCPP (Mecoprop)	93-65-2	280		78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168977
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE044-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: Dicamba.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.29	U	0.29	0.35	1
01363	p,p-DDT	50-29-3	0.60	U	0.60	0.60	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.20	U	0.20	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.073	U	0.073	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.19	U	0.19	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	4.5		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	2.8		0.34	1.8	1
10225	PCB-1260	11096-82-5	2.6		0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168977
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE044-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.14	20.4	1
07914	Boron	7440-42-8	5.85		0.909	5.11	1
01650	Calcium	7440-70-2	2,300		6.26	20.4	1
01654	Iron	7439-89-6	18,100		4.81	20.4	1
01656	Lithium	7439-93-2	18.4		0.22	2.0	1
01657	Magnesium	7439-95-4	3,560		2.59	10.2	1
06958	Manganese	7439-96-5	316		0.0797	0.511	1
10145	Phosphorus	7723-14-0	372		0.572	10.2	1
01662	Potassium	7440-09-7	3,450		18.4	51.1	1
01667	Sodium	7440-23-5	79.8	J	38.1	102	1
07968	Strontium	7440-24-6	20.0		0.0633	0.511	1
06969	Tin	7440-31-5	2.29	J	1.02	10.2	1
06970	Titanium	7440-32-6	1,120		0.388	1.02	1
10146	Zirconium	7440-67-7	0.858	U	0.858	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0784	J	0.0601	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.84		0.0601	0.401	2
06126	Barium	7440-39-3	91.5		0.108	0.401	2
06127	Beryllium	7440-41-7	0.538		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.254		0.0361	0.100	2
06131	Chromium	7440-47-3	17.1		0.120	0.401	2
06132	Cobalt	7440-48-4	4.70		0.0200	0.100	2
06133	Copper	7440-50-8	9.54		0.0661	0.401	2
06135	Lead	7439-92-1	14.3		0.0104	0.200	2
06138	Molybdenum	7439-98-7	0.659		0.0501	0.100	2
06139	Nickel	7440-02-0	11.0		0.100	0.401	2
06141	Selenium	7782-49-2	0.125	J	0.0401	0.401	2
06142	Silver	7440-22-4	0.0547	J	0.0120	0.100	2
06145	Thallium	7440-28-0	0.214		0.0300	0.100	2
06148	Vanadium	7440-62-2	26.7		0.0220	0.100	2
06149	Zinc	7440-66-6	55.0		0.561	3.00	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168977
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE044-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.21	1.0	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	521		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.73		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 05:00	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 11:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 13:06	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/16/2011 23:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 18:16	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168977
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE044-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:00	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 17:03	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 07:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/19/2011 23:18	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168977
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE044-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-210-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168978
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE044-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-210-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168978
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE044-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.61	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.9		0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.0		0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	6.5		0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	5.5		0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.1		0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	J	6.3	19	1
10138	Chrysene	218-01-9	4.2		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	23		6.3	19	1
10138	Fluoranthene	206-44-0	4.5		0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5		0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.83	J	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	2.2		0.70	1.8	1
10138	Pyrene	129-00-0	4.2		0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	520		80	260	1
10401	MCPP (Mecoprop)	93-65-2	210	J	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-210-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168978
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE044-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	1.3	U	1.3	3.6	1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.36	1
01363	p,p-DDE	72-55-9	0.13	U	0.13	0.36	1
01363	p,p-DDT	50-29-3	2.8		0.070	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.33	U	0.33	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.24	U	0.24	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.093	U	0.093	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.0	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.0	2
10225	Aroclor 5460	11126-42-4	36		2.1	7.0	2
10225	PCB-1016	12674-11-2	0.70	U	0.70	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.70	U	0.70	3.6	2
10225	PCB-1254	11097-69-1	130		0.70	3.6	2
10225	PCB-1260	11096-82-5	30		0.70	3.6	2
10225	PCB-1262	37324-23-5	0.70	U	0.70	3.6	2
10225	PCB-1268	11100-14-4	0.70	U	0.70	3.6	2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		5.20	20.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-210-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168978
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE044-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	5.24		0.919	5.17	1
01650	Calcium	7440-70-2	3,830		6.33	20.7	1
01654	Iron	7439-89-6	22,700		4.87	20.7	1
01656	Lithium	7439-93-2	27.4		0.23	2.1	1
01657	Magnesium	7439-95-4	4,770		2.62	10.3	1
06958	Manganese	7439-96-5	281		0.0806	0.517	1
10145	Phosphorus	7723-14-0	379		0.579	10.3	1
01662	Potassium	7440-09-7	3,010		18.6	51.7	1
01667	Sodium	7440-23-5	82.7	J	38.5	103	1
07968	Strontium	7440-24-6	23.7		0.0641	0.517	1
06969	Tin	7440-31-5	2.63	J	1.03	10.3	1
06970	Titanium	7440-32-6	1,170		0.393	1.03	1
10146	Zirconium	7440-67-7	1.66	J	0.868	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0820	J	0.0608	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.41		0.0608	0.405	2
06126	Barium	7440-39-3	87.3		0.109	0.405	2
06127	Beryllium	7440-41-7	0.556		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.398		0.0365	0.101	2
06131	Chromium	7440-47-3	23.1		0.122	0.405	2
06132	Cobalt	7440-48-4	5.60		0.0203	0.101	2
06133	Copper	7440-50-8	11.2		0.0669	0.405	2
06135	Lead	7439-92-1	11.2		0.0105	0.203	2
06138	Molybdenum	7439-98-7	0.568		0.0507	0.101	2
06139	Nickel	7440-02-0	14.3		0.101	0.405	2
06141	Selenium	7782-49-2	0.154	J	0.0405	0.405	2
06142	Silver	7440-22-4	6.76		0.0122	0.101	2
06145	Thallium	7440-28-0	0.254		0.0304	0.101	2
06148	Vanadium	7440-62-2	28.1		0.0223	0.101	2
06149	Zinc	7440-66-6	71.2		0.567	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0284	J	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-210-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168978
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE044-04

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	485	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.01	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	5.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 05:35	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 11:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 13:33	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/16/2011 23:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 18:34	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-210-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168978
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE044-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:04	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 17:21	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 07:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/19/2011 23:34	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-275-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6168979
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE044-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-275-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6168979
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE044-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.44	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.91	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	2.0		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.4	19	1
10138	Fluoranthene	206-44-0	2.5		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.81	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	13	J	6.4	19	1
10138	Phenanthrene	85-01-8	1.9		0.71	1.8	1
10138	Pyrene	129-00-0	2.2		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.64	U	0.64	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.9	U	1.9	1.9	1
10401	MCPA	94-74-6	540		81	270	1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-275-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6168979
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE044-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: Dicamba, MCPP and 2,4-DP.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.74		0.070	0.36	1
01363	p,p-DDT	50-29-3	0.45		0.070	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.10	U	0.10	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.066	J	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	3.5		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.6	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	1.6	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-275-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6168979
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE044-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.21	20.7	1
07914	Boron	7440-42-8	5.73		0.922	5.18	1
01650	Calcium	7440-70-2	2,680		6.35	20.7	1
01654	Iron	7439-89-6	20,700		4.88	20.7	1
01656	Lithium	7439-93-2	22.2		0.23	2.1	1
01657	Magnesium	7439-95-4	4,270		2.63	10.4	1
06958	Manganese	7439-96-5	354		0.0808	0.518	1
10145	Phosphorus	7723-14-0	471		0.580	10.4	1
01662	Potassium	7440-09-7	4,060		18.7	51.8	1
01667	Sodium	7440-23-5	83.4	J	38.6	104	1
07968	Strontium	7440-24-6	25.3		0.0642	0.518	1
06969	Tin	7440-31-5	2.40	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,270		0.394	1.04	1
10146	Zirconium	7440-67-7	1.36	J	0.870	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0628	U	0.0628	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.40		0.0628	0.419	2
06126	Barium	7440-39-3	126		0.113	0.419	2
06127	Beryllium	7440-41-7	0.629		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.293		0.0377	0.105	2
06131	Chromium	7440-47-3	19.9		0.126	0.419	2
06132	Cobalt	7440-48-4	5.67		0.0209	0.105	2
06133	Copper	7440-50-8	10.8		0.0691	0.419	2
06135	Lead	7439-92-1	12.3		0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.708		0.0523	0.105	2
06139	Nickel	7440-02-0	13.3		0.105	0.419	2
06141	Selenium	7782-49-2	0.144	J	0.0419	0.419	2
06142	Silver	7440-22-4	0.0566	J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.275		0.0314	0.105	2
06148	Vanadium	7440-62-2	29.4		0.0230	0.105	2
06149	Zinc	7440-66-6	72.1		0.586	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0042	J	0.0029	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-275-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6168979
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E4405 SDG#: DE044-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	546		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.36		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 09:49	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 12:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 14:01	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 00:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 18:53	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-275-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6168979
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E4405 SDG#: DE044-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:08	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 17:39	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 08:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/19/2011 23:58	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-275-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6168979
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4405 SDG#: DE044-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6168980
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE044-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-206-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6168980
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE044-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	13	J	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	930		79	260	1
10401	MCPP (Mecoprop)	93-65-2	300		78	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

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LLI Sample # SW 6168980
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E4406 SDG#: DE044-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36	1
01363	p,p-DDT	50-29-3	0.069	U	0.069	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		5.21	20.7	1
07914	Boron	7440-42-8	4.94	J	0.922	5.18	1
01650	Calcium	7440-70-2	2,890		6.35	20.7	1
01654	Iron	7439-89-6	21,500		4.88	20.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-206-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6168980
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4406 SDG#: DE044-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	22.3		0.23	2.1	1
01657	Magnesium	7439-95-4	4,500		2.63	10.4	1
06958	Manganese	7439-96-5	309		0.0808	0.518	1
10145	Phosphorus	7723-14-0	587		0.580	10.4	1
01662	Potassium	7440-09-7	4,500		18.6	51.8	1
01667	Sodium	7440-23-5	76.5	J	38.6	104	1
07968	Strontium	7440-24-6	19.9		0.0642	0.518	1
06969	Tin	7440-31-5	2.36	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,300		0.394	1.04	1
10146	Zirconium	7440-67-7	1.11	J	0.870	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0609	U	0.0609	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.81		0.0609	0.406	2
06126	Barium	7440-39-3	92.2		0.110	0.406	2
06127	Beryllium	7440-41-7	0.542		0.0162	0.102	2
06128	Cadmium	7440-43-9	0.145		0.0366	0.102	2
06131	Chromium	7440-47-3	19.0		0.122	0.406	2
06132	Cobalt	7440-48-4	4.76		0.0203	0.102	2
06133	Copper	7440-50-8	8.05		0.0670	0.406	2
06135	Lead	7439-92-1	7.88		0.0106	0.203	2
06138	Molybdenum	7439-98-7	0.599		0.0508	0.102	2
06139	Nickel	7440-02-0	10.7		0.102	0.406	2
06141	Selenium	7782-49-2	0.116	J	0.0406	0.406	2
06142	Silver	7440-22-4	0.0501	J	0.0122	0.102	2
06145	Thallium	7440-28-0	0.224		0.0305	0.102	2
06148	Vanadium	7440-62-2	28.4		0.0223	0.102	2
06149	Zinc	7440-66-6	59.5		0.569	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0984	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.21	1.0	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	539		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-206-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6168980
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

Submitted: 12/18/2010 12:40
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E4406 SDG#: DE044-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.77	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 10:24	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 12:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 14:28	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 00:17	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 19:11	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-206-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6168980
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

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E4406 SDG#: DE044-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:12	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 18:35	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 08:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/20/2011 00:14	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-209-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6168981
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE044-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6168981
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE044-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.58	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	4.8		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	3.9		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	3.5		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.4	19	1
10138	Fluoranthene	206-44-0	3.5		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.6		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.87	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	2.0		0.71	1.8	1
10138	Pyrene	129-00-0	3.2		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	440		81	270	1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6168981
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE044-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: MCPP.

Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3	1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.24		0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.077	U	0.077	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6	1
01363	p,p-DDD	72-54-8	0.22	U	0.22	0.36	1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.36	1
01363	p,p-DDT	50-29-3	3.2	U	3.2	3.2	5
01363	Delta BHC	319-86-8	0.12	U	0.12	0.18	1
01363	Dieldrin	60-57-1	0.33	U	0.33	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.17	U	0.17	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.33	U	0.33	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.41	U	0.41	0.41	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.060	U	0.060	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.88	U	0.88	0.88	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.1	2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.1	2
10225	Aroclor 5460	11126-42-4	35		2.1	7.1	2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.6	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.6	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6168981
LLI Group # 1226237
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4407 SDG#: DE044-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.6	2
10225	PCB-1254	11097-69-1	30		0.71	3.6	2
10225	PCB-1260	11096-82-5	25		0.71	3.6	2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.6	2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.6	2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400		5.27	21.0	1
07914	Boron	7440-42-8	5.67		0.933	5.24	1
01650	Calcium	7440-70-2	2,800		6.43	21.0	1
01654	Iron	7439-89-6	20,900		4.94	21.0	1
01656	Lithium	7439-93-2	26.0		0.23	2.1	1
01657	Magnesium	7439-95-4	4,360		2.66	10.5	1
06958	Manganese	7439-96-5	288		0.0818	0.524	1
10145	Phosphorus	7723-14-0	425		0.587	10.5	1
01662	Potassium	7440-09-7	3,690		18.9	52.4	1
01667	Sodium	7440-23-5	78.4	J	39.1	105	1
07968	Strontium	7440-24-6	19.7		0.0650	0.524	1
06969	Tin	7440-31-5	2.57	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,180		0.398	1.05	1
10146	Zirconium	7440-67-7	1.22	J	0.881	5.24	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0718	J	0.0617	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.69		0.0617	0.411	2
06126	Barium	7440-39-3	81.2		0.111	0.411	2
06127	Beryllium	7440-41-7	0.515		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.386		0.0370	0.103	2
06131	Chromium	7440-47-3	19.6		0.123	0.411	2
06132	Cobalt	7440-48-4	4.79		0.0206	0.103	2
06133	Copper	7440-50-8	12.0		0.0679	0.411	2
06135	Lead	7439-92-1	11.4		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.495		0.0514	0.103	2
06139	Nickel	7440-02-0	11.5		0.103	0.411	2
06141	Selenium	7782-49-2	0.115	J	0.0411	0.411	2
06142	Silver	7440-22-4	6.24		0.0123	0.103	2
06145	Thallium	7440-28-0	0.227		0.0309	0.103	2
06148	Vanadium	7440-62-2	26.8		0.0226	0.103	2
06149	Zinc	7440-66-6	63.7		0.576	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0253	J	0.0029	0.101	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6168981
LLI Group # 1226237
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

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CDM Federal Programs Corp.
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Suite 210
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E4407 SDG#: DE044-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	522		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.12		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 10:59	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 13:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 14:56	Sarah M Snyder	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 16:19	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 00:30	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 00:44	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 19:30	Lindsey K Lafferty	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-209-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6168981
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE044-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:16	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 18:53	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 09:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/20/2011 00:30	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6168981
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE044-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10354182102B	12/20/2010 16:50	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10354039402B	12/20/2010 16:50	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-161-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6168982
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE044-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	20	400	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-161-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6168982
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE044-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200	1
04688	Pyrene	129-00-0	23	J	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0	1
10138	Acenaphthylene	208-96-8	1.1	J	0.40	2.0	1
10138	Anthracene	120-12-7	2.1		0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	4.7		0.80	2.0	1
10138	Benzo(a)pyrene	50-32-8	5.2		0.80	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	14		0.80	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	11		0.80	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	5.4		0.80	2.0	1
10138	Butylbenzylphthalate	85-68-7	14	J	7.2	22	1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22	1
10138	Chrysene	218-01-9	10		0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.80	2.0	1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22	1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22	1
10138	Fluoranthene	206-44-0	12		0.80	2.0	1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.4		0.80	2.0	1
10138	1-Methylnaphthalene	90-12-0	1.6	J	0.80	2.0	1
10138	2-Methylnaphthalene	91-57-6	3.0		0.80	2.0	1
10138	Naphthalene	91-20-3	3.4		0.80	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22	1
10138	Phenanthrene	85-01-8	7.6		0.80	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	0.74	U	0.74	2.0	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0	1
10401	MCPA	94-74-6	450		91	300	1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.090	U	0.090	0.20	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

*=This limit was used in the evaluation of the final result

Sample Description: SL-161-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6168982
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE044-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.097	U	0.097	0.20	1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20	1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20	1
01363	Chlordane	57-74-9	4.9	U	4.9	4.9	1
01363	p,p-DDD	72-54-8	0.96	U	0.96	0.96	1
01363	p,p-DDE	72-55-9	0.83	U	0.83	0.83	1
01363	p,p-DDT	50-29-3	9.7		0.79	4.1	10
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	1.3	U	1.3	1.3	1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20	1
01363	Endosulfan II	33213-65-9	1.1	U	1.1	1.1	1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41	1
01363	Endrin	72-20-8	0.079	U	0.079	0.41	1
01363	Endrin Aldehyde	7421-93-4	1.0	U	1.0	1.0	1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.41	1
01363	Heptachlor	76-44-8	0.21	U	0.21	0.21	1
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.22	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	0.079	U	0.079	0.41	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.0	U	6.0	20	5
10225	Aroclor 5442	12642-23-8	6.0	U	6.0	20	5
10225	Aroclor 5460	11126-42-4	95		6.0	20	5
10225	PCB-1016	12674-11-2	2.0	U	2.0	10	5
10225	PCB-1221	11104-28-2	3.0	U	3.0	10	5
10225	PCB-1232	11141-16-5	3.1	U	3.1	10	5
10225	PCB-1242	53469-21-9	3.0	U	3.0	10	5
10225	PCB-1248	12672-29-6	2.0	U	2.0	10	5
10225	PCB-1254	11097-69-1	130		2.0	10	5
10225	PCB-1260	11096-82-5	78		2.0	10	5
10225	PCB-1262	37324-23-5	2.0	U	2.0	10	5
10225	PCB-1268	11100-14-4	2.0	U	2.0	10	5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		5.74	22.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6168982
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE044-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	6.34		1.02	5.71	1
01650	Calcium	7440-70-2	3,870		7.00	22.8	1
01654	Iron	7439-89-6	22,500		5.38	22.8	1
01656	Lithium	7439-93-2	30.8		0.25	2.3	1
01657	Magnesium	7439-95-4	5,130		2.90	11.4	1
06958	Manganese	7439-96-5	292		0.0891	0.571	1
10145	Phosphorus	7723-14-0	455		0.639	11.4	1
01662	Potassium	7440-09-7	3,670		20.6	57.1	1
01667	Sodium	7440-23-5	91.5	J	42.6	114	1
07968	Strontium	7440-24-6	24.5		0.0708	0.571	1
06969	Tin	7440-31-5	3.23	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,340		0.434	1.14	1
10146	Zirconium	7440-67-7	1.35	J	0.959	5.71	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0820	J	0.0719	0.240	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.34		0.0719	0.480	2
06126	Barium	7440-39-3	83.4		0.129	0.480	2
06127	Beryllium	7440-41-7	0.538		0.0192	0.120	2
06128	Cadmium	7440-43-9	1.12		0.0432	0.120	2
06131	Chromium	7440-47-3	36.5		0.144	0.480	2
06132	Cobalt	7440-48-4	5.45		0.0240	0.120	2
06133	Copper	7440-50-8	16.7		0.0791	0.480	2
06135	Lead	7439-92-1	15.0		0.0125	0.240	2
06138	Molybdenum	7439-98-7	0.875		0.0600	0.120	2
06139	Nickel	7440-02-0	16.4		0.120	0.480	2
06141	Selenium	7782-49-2	0.208	J	0.0480	0.480	2
06142	Silver	7440-22-4	63.8		0.0144	0.120	2
06145	Thallium	7440-28-0	0.257		0.0360	0.120	2
06148	Vanadium	7440-62-2	27.7		0.0264	0.120	2
06149	Zinc	7440-66-6	96.1		0.671	3.60	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.126		0.0034	0.117	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.96	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.4		0.24	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6168982
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE044-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	423	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.72	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	16.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 11:35	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 14:00	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 15:23	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 00:58	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 01:12	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 19:49	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6168982
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE044-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:20	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 19:12	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 09:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/20/2011 01:02	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6168983
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE044-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6168983
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE044-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0	1
10138	Acenaphthylene	208-96-8	0.74	J	0.40	2.0	1
10138	Anthracene	120-12-7	2.2		0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	3.7		0.80	2.0	1
10138	Benzo(a)pyrene	50-32-8	4.9		0.80	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	15		0.80	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	13		0.80	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	4.8		0.80	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.9	J	7.2	22	1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22	1
10138	Chrysene	218-01-9	8.4		0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.80	2.0	1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22	1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	500		14	43	2
10138	Fluoranthene	206-44-0	8.4		0.80	2.0	1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	8.5		0.80	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.93	J	0.80	2.0	1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.80	2.0	1
10138	Naphthalene	91-20-3	1.7	J	0.80	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22	1
10138	Phenanthrene	85-01-8	5.4		0.80	2.0	1
10138	Pyrene	129-00-0	10		0.80	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	5.3		0.74	2.0	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0	1
10401	MCPA	94-74-6	300	J	91	300	1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.40	U	0.40	0.40	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-162-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6168983
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE044-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: 2,4,5-TP.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.79	U	0.79	2.0	10
01363	Alpha BHC	319-84-6	0.41	U	0.41	2.0	10
01363	Beta BHC	319-85-7	0.72	U	0.72	2.0	10
01363	Gamma BHC - Lindane	58-89-9	0.41	U	0.41	2.0	10
01363	Chlordane	57-74-9	9.6	U	9.6	41	10
01363	p,p-DDD	72-54-8	0.79	U	0.79	4.1	10
01363	p,p-DDE	72-55-9	1.2	U	1.2	4.1	10
01363	p,p-DDT	50-29-3	60	U	60	60	50
01363	Delta BHC	319-86-8	0.43	U	0.43	2.0	10
01363	Dieldrin	60-57-1	7.2	U	7.2	7.2	10
01363	Endosulfan I	959-98-8	0.53	U	0.53	2.0	10
01363	Endosulfan II	33213-65-9	3.5	U	3.5	3.5	10
01363	Endosulfan Sulfate	1031-07-8	0.79	U	0.79	4.1	10
01363	Endrin	72-20-8	6.6	U	6.6	6.6	10
01363	Endrin Aldehyde	7421-93-4	25	U	25	25	10
01363	Endrin Ketone	53494-70-5	0.79	U	0.79	4.1	10
01363	Heptachlor	76-44-8	0.72	U	0.72	2.0	10
01363	Heptachlor Epoxide	1024-57-3	0.41	U	0.41	2.0	10
01363	Methoxychlor	72-43-5	4.1	U	4.1	20	10
01363	Mirex	2385-85-5	3.7	U	3.7	4.1	10
01363	Toxaphene	8001-35-2	26	U	26	79	10

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	300	U	300	990	250
10225	Aroclor 5442	12642-23-8	300	U	300	990	250
10225	Aroclor 5460	11126-42-4	300	U	300	990	250
10225	PCB-1016	12674-11-2	99	U	99	510	250
10225	PCB-1221	11104-28-2	150	U	150	510	250
10225	PCB-1232	11141-16-5	160	U	160	510	250
10225	PCB-1242	53469-21-9	150	U	150	510	250
10225	PCB-1248	12672-29-6	99	U	99	510	250
10225	PCB-1254	11097-69-1	99	U	99	510	250

*=This limit was used in the evaluation of the final result

Sample Description: **SL-162-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6168983
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE044-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	5,300		99	510	250
10225	PCB-1262	37324-23-5	99	U	99	510	250
10225	PCB-1268	11100-14-4	99	U	99	510	250
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,800		5.86	23.3	1
07914	Boron	7440-42-8	8.33		1.04	5.83	1
01650	Calcium	7440-70-2	8,340		7.14	23.3	1
01654	Iron	7439-89-6	32,300		27.4	117	5
01656	Lithium	7439-93-2	44.6		0.26	2.3	1
01657	Magnesium	7439-95-4	7,670		2.96	11.7	1
06958	Manganese	7439-96-5	424		0.0909	0.583	1
10145	Phosphorus	7723-14-0	636		0.653	11.7	1
01662	Potassium	7440-09-7	4,610		21.0	58.3	1
01667	Sodium	7440-23-5	150		43.5	117	1
07968	Strontium	7440-24-6	50.5		0.0723	0.583	1
06969	Tin	7440-31-5	3.78	J	1.17	11.7	1
06970	Titanium	7440-32-6	1,570		0.443	1.17	1
10146	Zirconium	7440-67-7	1.85	J	0.979	5.83	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.121	J	0.0686	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.65		0.0686	0.457	2
06126	Barium	7440-39-3	114		0.123	0.457	2
06127	Beryllium	7440-41-7	0.790		0.0183	0.114	2
06128	Cadmium	7440-43-9	1.62		0.0412	0.114	2
06131	Chromium	7440-47-3	44.9		0.137	0.457	2
06132	Cobalt	7440-48-4	7.30		0.0229	0.114	2
06133	Copper	7440-50-8	40.3		0.0755	0.457	2
06135	Lead	7439-92-1	21.4		0.0119	0.229	2
06138	Molybdenum	7439-98-7	1.31		0.0572	0.114	2
06139	Nickel	7440-02-0	26.5		0.114	0.457	2
06141	Selenium	7782-49-2	0.271	J	0.0457	0.457	2
06142	Silver	7440-22-4	38.1		0.0137	0.114	2
06145	Thallium	7440-28-0	0.311		0.0343	0.114	2
06148	Vanadium	7440-62-2	40.7		0.0252	0.114	2
06149	Zinc	7440-66-6	160		0.640	3.43	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0815	J	0.0034	0.119	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.0		0.96	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-162-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6168983
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE044-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	418		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.50		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	16.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 12:10	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 14:31	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 20:25	Gregory J Drahovsky	2
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 15:50	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 02:49	Jamie L Brillhart	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 03:02	Jamie L Brillhart	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 20:07	Lindsey K Lafferty	250
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6168983
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE044-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
01654	Iron	SW-846 6010B	2	103555708005	12/31/2010 17:08	John P Hook	5
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:24	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 19:30	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 10:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/20/2011 01:18	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-162-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6168983
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE044-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-274-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6168984
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE044-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-274-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6168984
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE044-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.95	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.9		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.4		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	5.8		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	6.0		0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	3.2		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.8	J	6.5	20	1
10138	Fluoranthene	206-44-0	4.6		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.1		0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.84	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	2.8		0.73	1.8	1
10138	Pyrene	129-00-0	4.3		0.73	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.47	J	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8	1
10401	MCPA	94-74-6	720		83	270	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-274-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6168984
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE044-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	1.7	U	1.7	3.7	1
01363	p,p-DDD	72-54-8	0.33	U	0.33	0.37	1
01363	p,p-DDE	72-55-9	0.30	U	0.30	0.37	1
01363	p,p-DDT	50-29-3	6.3	U	6.3	6.3	5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.84	U	0.84	0.84	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.65	U	0.65	0.65	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.59	U	0.59	0.59	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.065	U	0.065	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.13	U	0.13	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	36	10
10225	Aroclor 5442	12642-23-8	11	U	11	36	10
10225	Aroclor 5460	11126-42-4	55		11	36	10
10225	PCB-1016	12674-11-2	3.6	U	3.6	18	10
10225	PCB-1221	11104-28-2	5.4	U	5.4	18	10
10225	PCB-1232	11141-16-5	5.7	U	5.7	18	10
10225	PCB-1242	53469-21-9	5.4	U	5.4	18	10
10225	PCB-1248	12672-29-6	3.6	U	3.6	18	10
10225	PCB-1254	11097-69-1	3.6	U	3.6	18	10
10225	PCB-1260	11096-82-5	70		3.6	18	10
10225	PCB-1262	37324-23-5	3.6	U	3.6	18	10
10225	PCB-1268	11100-14-4	3.6	U	3.6	18	10
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,200		5.31	21.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-274-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6168984
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE044-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	4.85	J	0.940	5.28	1
01650	Calcium	7440-70-2	4,810		6.48	21.1	1
01654	Iron	7439-89-6	26,200		4.98	21.1	1
01656	Lithium	7439-93-2	34.6		0.23	2.1	1
01657	Magnesium	7439-95-4	5,980		2.68	10.6	1
06958	Manganese	7439-96-5	327		0.0824	0.528	1
10145	Phosphorus	7723-14-0	427		0.592	10.6	1
01662	Potassium	7440-09-7	3,420		19.0	52.8	1
01667	Sodium	7440-23-5	114		39.4	106	1
07968	Strontium	7440-24-6	29.1		0.0655	0.528	1
06969	Tin	7440-31-5	2.89	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,340		0.401	1.06	1
10146	Zirconium	7440-67-7	1.62	J	0.887	5.28	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0640	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.04		0.0640	0.427	2
06126	Barium	7440-39-3	101		0.115	0.427	2
06127	Beryllium	7440-41-7	0.680		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.673		0.0384	0.107	2
06131	Chromium	7440-47-3	34.8		0.128	0.427	2
06132	Cobalt	7440-48-4	6.60		0.0213	0.107	2
06133	Copper	7440-50-8	19.0		0.0704	0.427	2
06135	Lead	7439-92-1	13.8		0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.813		0.0533	0.107	2
06139	Nickel	7440-02-0	22.0		0.107	0.427	2
06141	Selenium	7782-49-2	0.197	J	0.0427	0.427	2
06142	Silver	7440-22-4	19.8		0.0128	0.107	2
06145	Thallium	7440-28-0	0.293		0.0320	0.107	2
06148	Vanadium	7440-62-2	35.3		0.0235	0.107	2
06149	Zinc	7440-66-6	93.9		0.597	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0567	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-274-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6168984
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE044-10

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	423	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.01	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 12:46	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 15:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 16:18	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 03:16	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 03:31	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 20:26	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-274-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6168984
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE044-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:28	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201A	01/13/2011 15:30	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202A	01/14/2011 10:32	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/20/2011 01:26	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201A	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202A	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6168985
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE044-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-166-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6168985
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE044-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.38	J	0.35	1.7	1
10138	Anthracene	120-12-7	1.2	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	8.9		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	7.3		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	14		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	8.7		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	6.1		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	11		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.3	19	1
10138	Fluoranthene	206-44-0	8.6		0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.2		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	1.0	J	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	2.4		0.70	1.7	1
10138	Pyrene	129-00-0	9.7		0.70	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.28	U	0.28	0.28	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-166-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6168985
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE044-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: 2,4,5-TP.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.11	U	0.11	0.35	1
01363	p,p-DDE	72-55-9	0.29	U	0.29	0.35	1
01363	p,p-DDT	50-29-3	1.3	U	1.3	1.3	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.17	U	0.17	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.082	U	0.082	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.17	U	0.17	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	7.9		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	17		0.34	1.8	1
10225	PCB-1260	11096-82-5	7.4		0.34	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-166-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6168985
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE044-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.25	20.9	1
07914	Boron	7440-42-8	4.80	J	0.928	5.21	1
01650	Calcium	7440-70-2	3,040		6.39	20.9	1
01654	Iron	7439-89-6	20,400		4.91	20.9	1
01656	Lithium	7439-93-2	24.6		0.23	2.1	1
01657	Magnesium	7439-95-4	4,320		2.65	10.4	1
06958	Manganese	7439-96-5	290		0.0813	0.521	1
10145	Phosphorus	7723-14-0	472		0.584	10.4	1
01662	Potassium	7440-09-7	3,430		18.8	52.1	1
01667	Sodium	7440-23-5	84.6	J	38.9	104	1
07968	Strontium	7440-24-6	19.3		0.0647	0.521	1
06969	Tin	7440-31-5	2.63	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,240		0.396	1.04	1
10146	Zirconium	7440-67-7	1.08	J	0.876	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0679	J	0.0602	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.22		0.0602	0.401	2
06126	Barium	7440-39-3	85.4		0.108	0.401	2
06127	Beryllium	7440-41-7	0.513		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.231		0.0361	0.100	2
06131	Chromium	7440-47-3	20.0		0.120	0.401	2
06132	Cobalt	7440-48-4	5.02		0.0201	0.100	2
06133	Copper	7440-50-8	12.4		0.0662	0.401	2
06135	Lead	7439-92-1	9.35		0.0104	0.201	2
06138	Molybdenum	7439-98-7	0.558		0.0501	0.100	2
06139	Nickel	7440-02-0	16.5		0.100	0.401	2
06141	Selenium	7782-49-2	0.116	J	0.0401	0.401	2
06142	Silver	7440-22-4	2.55		0.0120	0.100	2
06145	Thallium	7440-28-0	0.213		0.0301	0.100	2
06148	Vanadium	7440-62-2	28.9		0.0221	0.100	2
06149	Zinc	7440-66-6	60.1		0.561	3.01	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0100	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-166-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6168985
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE044-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.21	1.0	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	475		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.13		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.1		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 13:21	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 15:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 16:45	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 03:45	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 20:44	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-166-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6168985
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE044-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:32	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 20:44	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 12:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/20/2011 01:50	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-166-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6168985
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE044-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-160-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6168986
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE044-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6168986
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE044-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.38	J	0.37	1.9	1
10138	Anthracene	120-12-7	1.0	J	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	2.3		0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	2.6		0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	8.2		0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	7.4		0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	2.9		0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	3.8		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.7	J	6.7	20	1
10138	Fluoranthene	206-44-0	3.8		0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.7		0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.80	J	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	2.3		0.74	1.9	1
10138	Pyrene	129-00-0	4.7		0.74	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	5.0	U	5.0	5.0	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9	1
10401	MCPA	94-74-6	440		84	280	1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280	1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-160-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6168986
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE044-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.048	J	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.16	J	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.11	U	0.11	0.38	1
01363	p,p-DDE	72-55-9	0.14	U	0.14	0.38	1
01363	p,p-DDT	50-29-3	1.6	U	1.6	1.6	1
01363	Delta BHC	319-86-8	0.14	J	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.15	U	0.15	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.078	U	0.078	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.23	U	0.23	0.23	1
01363	Methoxychlor	72-43-5	1.1	U	1.1	1.8	1
01363	Mirex	2385-85-5	0.17	U	0.17	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	8.0		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	9.2		0.37	1.9	1
10225	PCB-1260	11096-82-5	7.5		0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-160-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6168986
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE044-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,900		5.43	21.6	1
07914	Boron	7440-42-8	3.59	J	0.960	5.39	1
01650	Calcium	7440-70-2	4,180		6.61	21.6	1
01654	Iron	7439-89-6	31,000		25.4	108	5
01656	Lithium	7439-93-2	39.2		0.24	2.2	1
01657	Magnesium	7439-95-4	7,910		2.74	10.8	1
06958	Manganese	7439-96-5	330		0.0841	0.539	1
10145	Phosphorus	7723-14-0	486		0.604	10.8	1
01662	Potassium	7440-09-7	4,130		19.4	53.9	1
01667	Sodium	7440-23-5	116		40.2	108	1
07968	Strontium	7440-24-6	29.5		0.0669	0.539	1
06969	Tin	7440-31-5	2.83	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,500		0.410	1.08	1
10146	Zirconium	7440-67-7	2.37	J	0.906	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0635	U	0.0635	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.14		0.0635	0.423	2
06126	Barium	7440-39-3	94.1		0.114	0.423	2
06127	Beryllium	7440-41-7	0.768		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.424		0.0381	0.106	2
06131	Chromium	7440-47-3	41.0		0.127	0.423	2
06132	Cobalt	7440-48-4	7.28		0.0212	0.106	2
06133	Copper	7440-50-8	20.2		0.0698	0.423	2
06135	Lead	7439-92-1	11.6		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.546		0.0529	0.106	2
06139	Nickel	7440-02-0	29.5		0.106	0.423	2
06141	Selenium	7782-49-2	0.110	J	0.0423	0.423	2
06142	Silver	7440-22-4	8.66		0.0127	0.106	2
06145	Thallium	7440-28-0	0.294		0.0317	0.106	2
06148	Vanadium	7440-62-2	44.7		0.0233	0.106	2
06149	Zinc	7440-66-6	80.1		0.593	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0279	J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-160-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6168986
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE044-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.77	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	493		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.26		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 13:57	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 16:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 18:08	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 03:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 21:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6168986
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE044-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
01654	Iron	SW-846 6010B	2	103555708005	12/31/2010 17:12	John P Hook	5
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:43	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 21:02	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 12:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/20/2011 01:58	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6168986
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE044-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168987
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168987
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.56	J	0.38	1.9	1
10138	Anthracene	120-12-7	1.6	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	4.1		0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	5.5		0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	18		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	19		0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	7.2		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	8.2		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.8		0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.75	1.9	1
10138	Naphthalene	91-20-3	1.5	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	4.0		0.75	1.9	1
10138	Pyrene	129-00-0	8.6		0.75	1.9	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	14		0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	290		86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: **SL-211-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168987
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19	1
01363	Alpha BHC	319-84-6	0.088	J	0.038	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19	1
01363	Chlordane	57-74-9	5.9	U	5.9	5.9	1
01363	p,p-DDD	72-54-8	0.81	U	0.81	0.81	1
01363	p,p-DDE	72-55-9	1.3	U	1.3	1.3	1
01363	p,p-DDT	50-29-3	11	U	11	11	10
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19	1
01363	Dieldrin	60-57-1	7.6	U	7.6	7.6	10
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	1.2	U	1.2	1.2	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	0.074	U	0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	1.7	U	1.7	1.7	1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.24	U	0.24	0.24	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9	1
01363	Mirex	2385-85-5	0.36	U	0.36	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19	5
10225	Aroclor 5460	11126-42-4	60		5.6	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6	5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.6	5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.6	5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.6	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6	5
10225	PCB-1254	11097-69-1	99		1.9	9.6	5
10225	PCB-1260	11096-82-5	69		1.9	9.6	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6	5

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168987
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,100		5.62	22.3	1
07914	Boron	7440-42-8	5.21	J	0.995	5.59	1
01650	Calcium	7440-70-2	6,060		6.85	22.3	1
01654	Iron	7439-89-6	28,600		26.3	112	5
01656	Lithium	7439-93-2	40.4		0.25	2.2	1
01657	Magnesium	7439-95-4	6,130		2.84	11.2	1
06958	Manganese	7439-96-5	386		0.0872	0.559	1
10145	Phosphorus	7723-14-0	550		0.626	11.2	1
01662	Potassium	7440-09-7	4,420		20.1	55.9	1
01667	Sodium	7440-23-5	116		41.7	112	1
07968	Strontium	7440-24-6	40.8		0.0693	0.559	1
06969	Tin	7440-31-5	3.07	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,490		0.425	1.12	1
10146	Zirconium	7440-67-7	2.37	J	0.939	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.218	J	0.0670	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.74		0.0670	0.447	2
06126	Barium	7440-39-3	143		0.121	0.447	2
06127	Beryllium	7440-41-7	0.911		0.0179	0.112	2
06128	Cadmium	7440-43-9	1.67		0.0402	0.112	2
06131	Chromium	7440-47-3	43.9		0.134	0.447	2
06132	Cobalt	7440-48-4	7.38		0.0223	0.112	2
06133	Copper	7440-50-8	36.7		0.0738	0.447	2
06135	Lead	7439-92-1	21.7		0.0116	0.223	2
06138	Molybdenum	7439-98-7	1.09		0.0559	0.112	2
06139	Nickel	7440-02-0	20.2		0.112	0.447	2
06141	Selenium	7782-49-2	0.319	J	0.0447	0.447	2
06142	Silver	7440-22-4	44.8		0.0134	0.112	2
06145	Thallium	7440-28-0	0.323		0.0335	0.112	2
06148	Vanadium	7440-62-2	42.1		0.0246	0.112	2
06149	Zinc	7440-66-6	132		0.626	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0687	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.87	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168987
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	464	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.13	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 02:04	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 05:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 09:53	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 04:27	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 04:41	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 21:21	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
01654	Iron	SW-846 6010B	2	103555708005	12/31/2010 16:52	John P Hook	5
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-211-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168987
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 22:21	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 09:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 19:49	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 10:55	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/20/2011 02:14	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168988
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,900		19	190	1
04688	Aniline	62-53-3	1,100		190	560	1
04688	Anthracene	120-12-7	1,900		19	190	1
04688	Benzidine	92-87-5	2,600	J	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190	1
04688	Benzoic acid	65-85-0	690		190	560	1
04688	Benzyl alcohol	100-51-6	1,700		190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190	1
04688	Butylbenzylphthalate	85-68-7	2,000		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190	1
04688	4-Chloroaniline	106-47-8	1,100		75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190	1
04688	Chrysene	218-01-9	1,800		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,800		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	1,800		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,900		38	190	1
04688	3,5-Dimethylphenol	108-68-9	2,000		38	190	1
04688	Dimethylphthalate	131-11-3	1,800		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	460	J	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	2,100		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	380	1
04688	Fluoranthene	206-44-0	1,700		19	190	1
04688	Fluorene	86-73-7	1,700		19	190	1
04688	Hexachlorobenzene	118-74-1	1,900		19	190	1
04688	Hexachlorobutadiene	87-68-3	2,000		75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	1,300		190	560	1
04688	Hexachloroethane	67-72-1	1,600		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168988
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,800	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,800	38	190	1
04688	4-Methylphenol	106-44-5	1,800	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	2,000	19	190	1
04688	3-Nitroaniline	99-09-2	1,700	38	190	1
04688	4-Nitroaniline	100-01-6	1,400	75	190	1
04688	Nitrobenzene	98-95-3	1,900	19	190	1
04688	2-Nitrophenol	88-75-5	1,600	19	190	1
04688	4-Nitrophenol	100-02-7	1,700	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	19	190	1
04688	Pentachlorophenol	87-86-5	1,200	190	560	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,800	19	190	1
04688	Pyrene	129-00-0	2,000	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	38	0.75	1.9	1
10138	Acenaphthylene	208-96-8	37	0.38	1.9	1
10138	Anthracene	120-12-7	38	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	43	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	40	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	63	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	57	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	42	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	62	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	56	6.8	20	1
10138	Chrysene	218-01-9	45	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	34	0.75	1.9	1
10138	Diethylphthalate	84-66-2	40	6.8	20	1
10138	Dimethylphthalate	131-11-3	41	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	6.8	20	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168988
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	47		0.75	1.9	1
10138	Fluorene	86-73-7	35		0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	47		0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	35		0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	35		0.75	1.9	1
10138	Naphthalene	91-20-3	37		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	37		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	48		6.8	20	1
10138	Phenanthrene	85-01-8	40		0.75	1.9	1
10138	Pyrene	129-00-0	53		0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.9		1.4	4.1	1
10401	Dalapon	75-99-0	9.7	J	5.0	10	1
10401	2,4-DB	94-82-6	16		0.70	1.9	1
10401	Dicamba	1918-00-9	0.80	J	0.45	1.4	1
10401	Dinoseb	88-85-7	1.4	J	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.9		0.90	1.9	1
10401	MCPA	94-74-6	820		86	280	1
10401	MCPP (Mecoprop)	93-65-2	1,100		85	280	1
10401	2,4,5-T	93-76-5	0.87		0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.97		0.085	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.27		0.074	0.19	1
01363	Alpha BHC	319-84-6	0.21		0.038	0.19	1
01363	Beta BHC	319-85-7	0.24		0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.73		0.074	0.38	1
01363	p,p-DDT	50-29-3	0.074	U	0.074	0.38	1
01363	Delta BHC	319-86-8	0.30		0.041	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.72		0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	1.5		0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	1.2		0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.58		0.074	0.38	1
01363	Heptachlor	76-44-8	0.27		0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.38		0.038	0.19	1
01363	Methoxychlor	72-43-5	2.2		0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168988
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19	5
10225	Aroclor 5460	11126-42-4	99		5.6	19	5
10225	PCB-1016	12674-11-2	32		1.9	9.6	5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.6	5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.6	5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.6	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6	5
10225	PCB-1254	11097-69-1	250		1.9	9.6	5
10225	PCB-1260	11096-82-5	160		1.9	9.6	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6	5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.62	22.3	1
07914	Boron	7440-42-8	213		0.995	5.59	1
01650	Calcium	7440-70-2	6,020		6.85	22.3	1
01654	Iron	7439-89-6	29,400		5.26	22.3	1
01656	Lithium	7439-93-2	143		0.25	2.2	1
01657	Magnesium	7439-95-4	6,120		2.84	11.2	1
06958	Manganese	7439-96-5	494		0.0872	0.559	1
10145	Phosphorus	7723-14-0	606		0.626	11.2	1
01662	Potassium	7440-09-7	5,370		20.1	55.9	1
01667	Sodium	7440-23-5	1,230		41.7	112	1
07968	Strontium	7440-24-6	145		0.0693	0.559	1
06969	Tin	7440-31-5	374		1.12	11.2	1
06970	Titanium	7440-32-6	1,690		0.425	1.12	1
10146	Zirconium	7440-67-7	102		0.939	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.447		0.0677	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.4		0.0677	0.451	2
06126	Barium	7440-39-3	125		0.122	0.451	2
06127	Beryllium	7440-41-7	1.49		0.0181	0.113	2
06128	Cadmium	7440-43-9	2.46		0.0406	0.113	2
06131	Chromium	7440-47-3	50.3		0.135	0.451	2
06132	Cobalt	7440-48-4	51.9		0.0226	0.113	2
06133	Copper	7440-50-8	40.5		0.0745	0.451	2
06135	Lead	7439-92-1	20.4		0.0117	0.226	2

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168988
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	11.7	0.0564	0.113	2
06139	Nickel	7440-02-0	27.3	0.113	0.451	2
06141	Selenium	7782-49-2	2.29	0.0451	0.451	2
06142	Silver	7440-22-4	51.5	0.0135	0.113	2
06145	Thallium	7440-28-0	0.726	0.0339	0.113	2
06148	Vanadium	7440-62-2	47.0	0.0248	0.113	2
06149	Zinc	7440-66-6	119	0.632	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.257	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.8	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	500	10.2	33.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	46.3	1.1	5.6	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-XXX-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 02:39	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 09:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 10:21	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 04:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 21:40	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168988
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 22:33	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 09:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 20:25	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 11:41	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/20/2011 02:30	James S Mathiot	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168988
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168989
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,900		19	190	1
04688	Aniline	62-53-3	1,000		190	560	1
04688	Anthracene	120-12-7	1,800		19	190	1
04688	Benzidine	92-87-5	2,700	J	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190	1
04688	Benzoic acid	65-85-0	720		190	560	1
04688	Benzyl alcohol	100-51-6	1,800		190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190	1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190	1
04688	4-Chloroaniline	106-47-8	1,100		75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190	1
04688	Chrysene	218-01-9	1,800		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,800		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	1,800		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190	1
04688	3,5-Dimethylphenol	108-68-9	2,000		38	190	1
04688	Dimethylphthalate	131-11-3	1,800		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	470	J	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	2,100		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		19	380	1
04688	Fluoranthene	206-44-0	1,700		19	190	1
04688	Fluorene	86-73-7	1,800		19	190	1
04688	Hexachlorobenzene	118-74-1	2,000		19	190	1
04688	Hexachlorobutadiene	87-68-3	2,000		75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	1,400		190	560	1
04688	Hexachloroethane	67-72-1	1,600		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168989
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,800	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,800	38	190	1
04688	4-Methylphenol	106-44-5	1,800	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,800	19	190	1
04688	2-Nitroaniline	88-74-4	2,100	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	38	190	1
04688	4-Nitroaniline	100-01-6	1,400	75	190	1
04688	Nitrobenzene	98-95-3	1,900	19	190	1
04688	2-Nitrophenol	88-75-5	1,600	19	190	1
04688	4-Nitrophenol	100-02-7	1,800	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	19	190	1
04688	Pentachlorophenol	87-86-5	1,200	190	560	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,800	19	190	1
04688	Pyrene	129-00-0	2,100	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35	0.75	1.9	1
10138	Acenaphthylene	208-96-8	35	0.38	1.9	1
10138	Anthracene	120-12-7	36	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	39	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	36	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	56	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	52	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	39	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	49	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	46	6.8	20	1
10138	Chrysene	218-01-9	40	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	34	0.75	1.9	1
10138	Diethylphthalate	84-66-2	39	6.8	20	1
10138	Dimethylphthalate	131-11-3	38	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51	6.8	20	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168989
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	45		0.75	1.9	1
10138	Fluorene	86-73-7	36		0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	42		0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	36		0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	33		0.75	1.9	1
10138	Naphthalene	91-20-3	35		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	36		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	46		6.8	20	1
10138	Phenanthrene	85-01-8	39		0.75	1.9	1
10138	Pyrene	129-00-0	39		0.75	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.3		1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	14		0.70	1.9	1
10401	Dicamba	1918-00-9	1.4		0.45	1.4	1
10401	Dinoseb	88-85-7	1.4	J	0.90	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.90	1.9	1
10401	MCPA	94-74-6	840		86	280	1
10401	MCPP (Mecoprop)	93-65-2	980		85	280	1
10401	2,4,5-T	93-76-5	0.76		0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.74		0.085	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.29		0.074	0.19	1
01363	Alpha BHC	319-84-6	0.24		0.038	0.19	1
01363	Beta BHC	319-85-7	0.27		0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.038	0.19	1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8	1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38	1
01363	p,p-DDE	72-55-9	0.91		0.074	0.38	1
01363	p,p-DDT	50-29-3	0.074	U	0.074	0.38	1
01363	Delta BHC	319-86-8	0.35		0.041	0.19	1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.98		0.074	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38	1
01363	Endrin	72-20-8	1.9		0.074	0.38	1
01363	Endrin Aldehyde	7421-93-4	1.5		0.074	0.38	1
01363	Endrin Ketone	53494-70-5	0.47		0.074	0.38	1
01363	Heptachlor	76-44-8	0.25		0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.59		0.038	0.19	1
01363	Methoxychlor	72-43-5	3.9		0.38	1.9	1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4	1

Various analytes in the calibration check standards bracketing the sample were

Sample Description: **SL-211-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168989
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19	5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19	5
10225	Aroclor 5460	11126-42-4	73		5.6	19	5
10225	PCB-1016	12674-11-2	28		1.9	9.6	5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.6	5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.6	5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.6	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6	5
10225	PCB-1254	11097-69-1	140		1.9	9.6	5
10225	PCB-1260	11096-82-5	100		1.9	9.6	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6	5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,600		5.46	21.7	1
07914	Boron	7440-42-8	208		0.966	5.43	1
01650	Calcium	7440-70-2	7,060		6.65	21.7	1
01654	Iron	7439-89-6	30,400		25.6	109	5
01656	Lithium	7439-93-2	144		0.24	2.2	1
01657	Magnesium	7439-95-4	6,750		2.76	10.9	1
06958	Manganese	7439-96-5	434		0.0847	0.543	1
10145	Phosphorus	7723-14-0	661		0.608	10.9	1
01662	Potassium	7440-09-7	5,610		19.5	54.3	1
01667	Sodium	7440-23-5	1,210		40.5	109	1
07968	Strontium	7440-24-6	151		0.0673	0.543	1
06969	Tin	7440-31-5	351		1.09	10.9	1
06970	Titanium	7440-32-6	1,780		0.412	1.09	1
10146	Zirconium	7440-67-7	97.8		0.912	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.469		0.0651	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.5		0.0651	0.434	2
06126	Barium	7440-39-3	134		0.117	0.434	2
06127	Beryllium	7440-41-7	1.62		0.0174	0.109	2
06128	Cadmium	7440-43-9	2.46		0.0391	0.109	2
06131	Chromium	7440-47-3	48.4		0.130	0.434	2
06132	Cobalt	7440-48-4	50.7		0.0217	0.109	2
06133	Copper	7440-50-8	69.7		0.0716	0.434	2
06135	Lead	7439-92-1	21.2		0.0113	0.217	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-211-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168989
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06138	Molybdenum	7439-98-7	11.9	0.0543	0.109	2
06139	Nickel	7440-02-0	28.0	0.109	0.434	2
06141	Selenium	7782-49-2	2.41	0.0434	0.434	2
06142	Silver	7440-22-4	58.3	0.0130	0.109	2
06145	Thallium	7440-28-0	0.707	0.0326	0.109	2
06148	Vanadium	7440-62-2	46.1	0.0239	0.109	2
06149	Zinc	7440-66-6	127	0.608	3.26	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.245	0.0030	0.105	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-XXX-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 03:14	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 09:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 10:48	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 05:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 21:59	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
01654	Iron	SW-846 6010B	2	103555708005	12/31/2010 17:02	John P Hook	5
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168989
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 22:37	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/04/2011 09:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 09:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168990
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,100		5.62	22.3	1
07914	Boron	7440-42-8	6.27		0.995	5.59	1
01650	Calcium	7440-70-2	6,340		6.85	22.3	1
01654	Iron	7439-89-6	28,800		26.3	112	5
01656	Lithium	7439-93-2	39.9		0.25	2.2	1
01657	Magnesium	7439-95-4	6,210		2.84	11.2	1
06958	Manganese	7439-96-5	386		0.0872	0.559	1
10145	Phosphorus	7723-14-0	549		0.626	11.2	1
01662	Potassium	7440-09-7	4,380		20.1	55.9	1
01667	Sodium	7440-23-5	115		41.7	112	1
07968	Strontium	7440-24-6	41.9		0.0693	0.559	1
06969	Tin	7440-31-5	3.11	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,460		0.425	1.12	1
10146	Zirconium	7440-67-7	2.67	J	0.939	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.125	J	0.0677	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.6		0.0677	0.451	2
06126	Barium	7440-39-3	133		0.122	0.451	2
06127	Beryllium	7440-41-7	0.940		0.0181	0.113	2
06128	Cadmium	7440-43-9	1.36		0.0406	0.113	2
06131	Chromium	7440-47-3	40.8		0.135	0.451	2
06132	Cobalt	7440-48-4	7.89		0.0226	0.113	2
06133	Copper	7440-50-8	33.2		0.0745	0.451	2
06135	Lead	7439-92-1	20.9		0.0117	0.226	2
06138	Molybdenum	7439-98-7	1.14		0.0564	0.113	2
06139	Nickel	7440-02-0	19.6		0.113	0.451	2
06141	Selenium	7782-49-2	0.294	J	0.0451	0.451	2
06142	Silver	7440-22-4	38.6		0.0135	0.113	2
06145	Thallium	7440-28-0	0.321		0.0339	0.113	2
06148	Vanadium	7440-62-2	42.5		0.0248	0.113	2
06149	Zinc	7440-66-6	116		0.632	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0721	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.5		0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168990
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	465	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.12	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3		n.a.	11.4	0.50	0.50	1
11626	28a Moisture Content by 160.3		n.a.	11.7	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
01654	Iron	SW-846 6010B	2	103555708005	12/31/2010 16:59	John P Hook	5
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 22:29	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 07:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-211-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6168990
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE044-13DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 07:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 07:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 07:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 20:07	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 11:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/20/2011 03:18	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-278-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6168991
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE044-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	41	J	17	170	1
04688	Benzo(a)pyrene	50-32-8	31	J	17	170	1
04688	Benzo(b)fluoranthene	205-99-2	43	J	17	170	1
04688	Benzo(k)fluoranthene	207-08-9	19	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Chrysene	218-01-9	38	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Fluoranthene	206-44-0	74	J	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-278-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6168991
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE044-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenanthrene	85-01-8	45	J	17	170	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Pyrene	129-00-0	75	J	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	2.4		0.35	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	9.3		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Dibenz(a,h)anthracene	53-70-3	2.8		0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.3	19	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.3		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	1.0	J	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.70	1.7	1
10138	Naphthalene	91-20-3	1.0	J	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	13	J	6.3	19	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.76	J	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	80	U	80	260	1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-278-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6168991
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE044-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.096	J	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.045	J	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.26	U	0.26	0.36	1
01363	p,p-DDE	72-55-9	1.6	U	1.6	1.6	1
01363	p,p-DDT	50-29-3	1.0	U	1.0	1.0	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.22	U	0.22	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.36	1
01363	Endrin Ketone	53494-70-5	0.19	U	0.19	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	16		1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.52	U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.54	U	0.54	1.8	1
10225	PCB-1242	53469-21-9	0.52	U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	8.1		0.35	1.8	1
10225	PCB-1260	11096-82-5	4.4		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.06	20.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-278-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6168991
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE044-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	4.07	J	0.896	5.03	1
01650	Calcium	7440-70-2	1,920		6.17	20.1	1
01654	Iron	7439-89-6	20,800		4.74	20.1	1
01656	Lithium	7439-93-2	16.0		0.22	2.0	1
01657	Magnesium	7439-95-4	3,390		2.56	10.1	1
06958	Manganese	7439-96-5	296		0.0785	0.503	1
10145	Phosphorus	7723-14-0	278		0.564	10.1	1
01662	Potassium	7440-09-7	3,060		18.1	50.3	1
01667	Sodium	7440-23-5	84.1	J	37.6	101	1
07968	Strontium	7440-24-6	18.2		0.0624	0.503	1
06969	Tin	7440-31-5	2.27	J	1.01	10.1	1
06970	Titanium	7440-32-6	1,090		0.383	1.01	1
10146	Zirconium	7440-67-7	0.846	U	0.846	5.03	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0969	J	0.0610	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.95		0.0610	0.407	2
06126	Barium	7440-39-3	78.3		0.110	0.407	2
06127	Beryllium	7440-41-7	0.522		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.189		0.0366	0.102	2
06131	Chromium	7440-47-3	16.1		0.122	0.407	2
06132	Cobalt	7440-48-4	4.72		0.0203	0.102	2
06133	Copper	7440-50-8	8.01		0.0671	0.407	2
06135	Lead	7439-92-1	12.0		0.0106	0.203	2
06138	Molybdenum	7439-98-7	0.561		0.0508	0.102	2
06139	Nickel	7440-02-0	9.80		0.102	0.407	2
06141	Selenium	7782-49-2	0.124	J	0.0407	0.407	2
06142	Silver	7440-22-4	0.0721	J	0.0122	0.102	2
06145	Thallium	7440-28-0	0.221		0.0305	0.102	2
06148	Vanadium	7440-62-2	27.0		0.0224	0.102	2
06149	Zinc	7440-66-6	85.6		0.569	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-278-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6168991
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE044-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	574	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.21	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 14:33	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 16:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 18:35	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 05:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 22:17	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-278-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6168991
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE044-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:47	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 21:21	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 12:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/20/2011 03:50	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-279-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6168992
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4415 SDG#: DE044-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-279-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6168992
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4415 SDG#: DE044-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.41	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.5		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	3.8		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.4	19	1
10138	Fluoranthene	206-44-0	4.8		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.89	J	0.71	1.8	1
10138	Naphthalene	91-20-3	0.85	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	14	J	6.4	19	1
10138	Phenanthrene	85-01-8	3.3		0.71	1.8	1
10138	Pyrene	129-00-0	3.8		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.60	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	5.6		0.86	1.8	1
10401	MCPA	94-74-6	450		81	270	1
10401	MCPP (Mecoprop)	93-65-2	170	J	80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-279-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6168992
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4415 SDG#: DE044-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

statistical limits of 0-36%, the data is reported.

The LCS recovery for 2,4-DP is outside the QC limits. Results from the reextraction are within the limits. 2,4-DP was detected in the in the original extracted sample at 5.3 ug/kg. The reextracted sample did not contain 2,4-DP. This is due to the homogeneity of the sample. The hold time had expired prior to the reextraction so all results are reported from the original extract.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.11	U	0.11	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6	1
01363	p,p-DDD	72-54-8	0.090	U	0.090	0.36	1
01363	p,p-DDE	72-55-9	0.27	U	0.27	0.36	1
01363	p,p-DDT	50-29-3	0.15	U	0.15	0.36	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.36	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.69	U	0.69	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	4.0		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.7	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	9.1		0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-279-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6168992
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4415 SDG#: DE044-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.34	21.2	1
07914	Boron	7440-42-8	6.32		0.944	5.31	1
01650	Calcium	7440-70-2	2,320		6.51	21.2	1
01654	Iron	7439-89-6	18,400		5.00	21.2	1
01656	Lithium	7439-93-2	18.1		0.23	2.1	1
01657	Magnesium	7439-95-4	3,630		2.70	10.6	1
06958	Manganese	7439-96-5	317		0.0828	0.531	1
10145	Phosphorus	7723-14-0	345		0.594	10.6	1
01662	Potassium	7440-09-7	3,520		19.1	53.1	1
01667	Sodium	7440-23-5	79.3	J	39.6	106	1
07968	Strontium	7440-24-6	20.9		0.0658	0.531	1
06969	Tin	7440-31-5	2.28	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,160		0.403	1.06	1
10146	Zirconium	7440-67-7	0.891	U	0.891	5.31	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0637	U	0.0637	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.78		0.0637	0.424	2
06126	Barium	7440-39-3	97.0		0.115	0.424	2
06127	Beryllium	7440-41-7	0.495		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.223		0.0382	0.106	2
06131	Chromium	7440-47-3	16.8		0.127	0.424	2
06132	Cobalt	7440-48-4	4.94		0.0212	0.106	2
06133	Copper	7440-50-8	8.71		0.0700	0.424	2
06135	Lead	7439-92-1	8.96		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.641		0.0531	0.106	2
06139	Nickel	7440-02-0	10.8		0.106	0.424	2
06141	Selenium	7782-49-2	0.113	J	0.0424	0.424	2
06142	Silver	7440-22-4	0.105	J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.234		0.0318	0.106	2
06148	Vanadium	7440-62-2	25.9		0.0233	0.106	2
06149	Zinc	7440-66-6	54.6		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0991	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.86	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-279-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6168992
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4415 SDG#: DE044-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	571		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.47		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 15:08	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 20:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 19:02	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 05:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 22:36	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-279-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6168992
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4415 SDG#: DE044-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:51	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 22:16	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 13:36	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/20/2011 04:14	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-279-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6168992
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4415 SDG#: DE044-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-277-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6168993
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE044-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-277-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6168993
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE044-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.0		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	2.6		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	J	6.3	19	1
10138	Fluoranthene	206-44-0	2.2		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	13	J	6.3	19	1
10138	Phenanthrene	85-01-8	0.93	J	0.71	1.8	1
10138	Pyrene	129-00-0	1.9		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	220	U	220	260	1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	260	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: SL-277-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6168993
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE044-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.20	U	0.20	0.36	1
01363	p,p-DDT	50-29-3	0.15	U	0.15	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.23	U	0.23	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.65	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-277-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6168993
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE044-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		5.22	20.7	1
07914	Boron	7440-42-8	6.32		0.923	5.19	1
01650	Calcium	7440-70-2	2,490		6.36	20.7	1
01654	Iron	7439-89-6	19,200		4.89	20.7	1
01656	Lithium	7439-93-2	18.3		0.23	2.1	1
01657	Magnesium	7439-95-4	3,670		2.64	10.4	1
06958	Manganese	7439-96-5	323		0.0809	0.519	1
10145	Phosphorus	7723-14-0	371		0.581	10.4	1
01662	Potassium	7440-09-7	3,670		18.7	51.9	1
01667	Sodium	7440-23-5	83.8	J	38.7	104	1
07968	Strontium	7440-24-6	22.7		0.0643	0.519	1
06969	Tin	7440-31-5	2.22	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,150		0.394	1.04	1
10146	Zirconium	7440-67-7	1.30	J	0.871	5.19	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0828	J	0.0611	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.71		0.0611	0.407	2
06126	Barium	7440-39-3	100		0.110	0.407	2
06127	Beryllium	7440-41-7	0.516		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.214		0.0366	0.102	2
06131	Chromium	7440-47-3	17.1		0.122	0.407	2
06132	Cobalt	7440-48-4	4.84		0.0204	0.102	2
06133	Copper	7440-50-8	9.57		0.0672	0.407	2
06135	Lead	7439-92-1	12.2		0.0106	0.204	2
06138	Molybdenum	7439-98-7	0.652		0.0509	0.102	2
06139	Nickel	7440-02-0	11.4		0.102	0.407	2
06141	Selenium	7782-49-2	0.110	J	0.0407	0.407	2
06142	Silver	7440-22-4	0.0757	J	0.0122	0.102	2
06145	Thallium	7440-28-0	0.231		0.0305	0.102	2
06148	Vanadium	7440-62-2	26.7		0.0224	0.102	2
06149	Zinc	7440-66-6	54.7		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0037	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-277-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6168993
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE044-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	562		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.50		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 15:44	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 21:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 19:30	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 05:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 22:54	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-277-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6168993
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE044-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:55	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 22:35	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 13:59	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/20/2011 04:22	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102A	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402A	12/21/2010 15:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-277-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6168993
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE044-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-273-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6168994
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4417 SDG#: DE044-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-273-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6168994
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4417 SDG#: DE044-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.41	J	0.36	1.8	1
10138	Anthracene	120-12-7	1.3	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.4		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.9		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	7.7		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	6.6		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	5.0		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.4	19	1
10138	Fluoranthene	206-44-0	9.3		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0		0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.71	1.8	1
10138	Naphthalene	91-20-3	1.6	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	13	J	6.4	19	1
10138	Phenanthrene	85-01-8	5.0		0.71	1.8	1
10138	Pyrene	129-00-0	6.3		0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	660		81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

Sample Description: SL-273-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6168994
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4417 SDG#: DE044-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	2.4	U	2.4	3.6	1
01363	p,p-DDD	72-54-8	0.31	U	0.31	0.36	1
01363	p,p-DDE	72-55-9	0.79	U	0.79	0.79	1
01363	p,p-DDT	50-29-3	6.3	U	6.3	6.3	5
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.63	U	0.63	0.63	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.51	U	0.51	0.51	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.75	U	0.75	0.75	1
01363	Endrin Aldehyde	7421-93-4	0.49	U	0.49	0.49	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.19	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	18	5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	18	5
10225	Aroclor 5460	11126-42-4	61		5.3	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1	5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.1	5
10225	PCB-1232	11141-16-5	2.8	U	2.8	9.1	5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.1	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1	5
10225	PCB-1254	11097-69-1	88		1.8	9.1	5
10225	PCB-1260	11096-82-5	52		1.8	9.1	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1	5

*=This limit was used in the evaluation of the final result

Sample Description: **SL-273-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6168994
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4417 SDG#: DE044-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1	5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,400		5.22	20.7	1
07914	Boron	7440-42-8	4.94	J	0.923	5.19	1
01650	Calcium	7440-70-2	5,290		6.36	20.7	1
01654	Iron	7439-89-6	29,700		24.4	104	5
01656	Lithium	7439-93-2	35.7		0.23	2.1	1
01657	Magnesium	7439-95-4	6,090		2.63	10.4	1
06958	Manganese	7439-96-5	346		0.0809	0.519	1
10145	Phosphorus	7723-14-0	458		0.581	10.4	1
01662	Potassium	7440-09-7	3,690		18.7	51.9	1
01667	Sodium	7440-23-5	115		38.7	104	1
07968	Strontium	7440-24-6	32.6		0.0643	0.519	1
06969	Tin	7440-31-5	3.06	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,390		0.394	1.04	1
10146	Zirconium	7440-67-7	1.49	J	0.871	5.19	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0635	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.52		0.0635	0.423	2
06126	Barium	7440-39-3	91.8		0.114	0.423	2
06127	Beryllium	7440-41-7	0.646		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.956		0.0381	0.106	2
06131	Chromium	7440-47-3	28.6		0.127	0.423	2
06132	Cobalt	7440-48-4	6.33		0.0212	0.106	2
06133	Copper	7440-50-8	21.6		0.0698	0.423	2
06135	Lead	7439-92-1	17.2		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.909		0.0529	0.106	2
06139	Nickel	7440-02-0	16.3		0.106	0.423	2
06141	Selenium	7782-49-2	0.242	J	0.0423	0.423	2
06142	Silver	7440-22-4	20.0		0.0127	0.106	2
06145	Thallium	7440-28-0	0.222		0.0317	0.106	2
06148	Vanadium	7440-62-2	31.8		0.0233	0.106	2
06149	Zinc	7440-66-6	96.5		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0735	J	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-273-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6168994
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E4417 SDG#: DE044-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	438		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.89		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.4		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 16:19	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 22:01	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 19:57	Sarah M Snyder	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 16:25	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 06:05	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 06:19	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 23:13	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6168994
LLI Group # 1226237
Account # 13013

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Collected: 12/17/2010 14:20

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Suite 210
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E4417 SDG#: DE044-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
01654	Iron	SW-846 6010B	2	103555708005	12/31/2010 17:15	John P Hook	5
01656	Lithium	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/30/2010 23:59	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 22:53	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 14:22	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243201A	01/20/2011 04:46	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-273-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6168994
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
Chantilly VA 20151

E4417 SDG#: DE044-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-272-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6168995
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4418 SDG#: DE044-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6168995
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4418 SDG#: DE044-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.41	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.91	J	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	2.6		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.3	19	1
10138	Fluoranthene	206-44-0	5.2		0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	J	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.98	J	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	13	J	6.3	19	1
10138	Phenanthrene	85-01-8	3.1		0.70	1.8	1
10138	Pyrene	129-00-0	3.9		0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	500		80	260	1
10401	MCPP (Mecoprop)	93-65-2	610		79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.14	U	0.14	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

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LLI Sample # SW 6168995
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

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Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E4418 SDG#: DE044-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: 2,4,5-TP.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.051	J	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.053	J	0.036	0.17	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.36	1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.36	1
01363	p,p-DDT	50-29-3	0.40	U	0.40	0.40	1
01363	Delta BHC	319-86-8	0.058	J	0.038	0.17	1
01363	Dieldrin	60-57-1	0.14	U	0.14	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.16	U	0.16	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.072	U	0.072	0.17	1
01363	Methoxychlor	72-43-5	0.48	U	0.48	1.7	1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: dieldrin. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	4.0		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.7	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	1.2	J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-272-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6168995
LLI Group # 1226237
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

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E4418 SDG#: DE044-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.24	20.8	1
07914	Boron	7440-42-8	5.89		0.928	5.21	1
01650	Calcium	7440-70-2	2,320		6.39	20.8	1
01654	Iron	7439-89-6	20,300		4.91	20.8	1
01656	Lithium	7439-93-2	18.5		0.23	2.1	1
01657	Magnesium	7439-95-4	4,140		2.65	10.4	1
06958	Manganese	7439-96-5	321		0.0813	0.521	1
10145	Phosphorus	7723-14-0	456		0.584	10.4	1
01662	Potassium	7440-09-7	3,890		18.8	52.1	1
01667	Sodium	7440-23-5	71.1	J	38.9	104	1
07968	Strontium	7440-24-6	21.4		0.0646	0.521	1
06969	Tin	7440-31-5	2.16	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,140		0.396	1.04	1
10146	Zirconium	7440-67-7	1.12	J	0.875	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0813	J	0.0619	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.68		0.0619	0.413	2
06126	Barium	7440-39-3	103		0.111	0.413	2
06127	Beryllium	7440-41-7	0.492		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.233		0.0372	0.103	2
06131	Chromium	7440-47-3	17.4		0.124	0.413	2
06132	Cobalt	7440-48-4	4.88		0.0206	0.103	2
06133	Copper	7440-50-8	10.6		0.0681	0.413	2
06135	Lead	7439-92-1	7.24		0.0107	0.206	2
06138	Molybdenum	7439-98-7	0.601		0.0516	0.103	2
06139	Nickel	7440-02-0	11.6		0.103	0.413	2
06141	Selenium	7782-49-2	0.111	J	0.0413	0.413	2
06142	Silver	7440-22-4	0.0643	J	0.0124	0.103	2
06145	Thallium	7440-28-0	0.205		0.0310	0.103	2
06148	Vanadium	7440-62-2	25.9		0.0227	0.103	2
06149	Zinc	7440-66-6	55.0		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0986	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6168995
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E4418 SDG#: DE044-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.21	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	538		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.25		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLG026	01/19/2011 16:55	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLJ026	01/10/2011 22:33	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLJ026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLG026	12/29/2010 06:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103630016A	01/01/2011 20:25	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610031A	01/17/2011 06:33	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610032A	01/05/2011 23:31	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610031A	12/28/2010 08:00	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610032A	12/28/2010 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-272-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

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E4418 SDG#: DE044-18*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103630016A	12/30/2010 00:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
07914	Boron	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
01654	Iron	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
06969	Tin	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103555708005	12/31/2010 00:03	John P Hook	1
06124	Antimony	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103551026001D	01/03/2011 08:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103551026001C	01/03/2011 08:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103551026001B	01/03/2011 08:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103551026001A	01/04/2011 10:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103551026001A	01/03/2011 08:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103555711003	12/22/2010 06:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103555708005	12/21/2010 20:15	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103551026001	12/21/2010 20:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103555711003	12/22/2010 02:00	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11008008201B	01/13/2011 23:11	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11012012202B	01/14/2011 14:45	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243201A	01/20/2011 04:54	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11008008201B	01/08/2011 10:30	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11012012202B	01/12/2011 22:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-272-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6168995
LLI Group # 1226237
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

Submitted: 12/18/2010 12:40
Reported: 01/25/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4418 SDG#: DE044-18*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243201A	01/16/2011 06:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10362SLG026	Sample number(s): 6168975-6168989,6168991-6168995									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	37		10-107		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	35		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	95		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	88		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	82		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	89		67-125		
Benzoic acid	170 U		170.	500	ug/kg	91		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	102		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	53		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	102		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	83		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		
Chrysene	17	U	17.	170	ug/kg	92		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	85		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	32*		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	85		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	102		73-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	101		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	94		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	103		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	112		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	94		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	85		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	97		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	91		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	103		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	58		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	101		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	101		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	78		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	96		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	81		35-106		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	108		78-111		
Batch number: 10362SLJ026	Sample number(s): 6168975-6168989,6168991-6168995									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	99		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	100		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	118		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	114		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	121		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	116		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	109		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	111		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	96		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	109		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	120		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	104		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	116		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	92		56-121		
Batch number: 103630016A	Sample number(s): 6168975-6168989,6168991-6168995									
2,4-D	1.2	U	1.2	3.6	ug/kg	109		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	37		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	94		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	89		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	167*		60-141		
MCPA	76	U	76.	250	ug/kg	101		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	100		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	104		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	87		48-138		
Batch number: 110040016A	Sample number(s): 6168981,6168994									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 103610031A	Sample number(s): 6168975-6168989,6168991-6168995									
Aldrin	0.066	U	0.066	0.17	ug/kg	94		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	67		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	70		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	72		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	109		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	71		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	62*		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	58		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	82		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	91		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	68		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	64		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	91		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	82		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	82		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103610032A	Sample number(s): 6168975-6168989,6168991-6168995									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	53*	62*	75-125	15	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	100		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	126		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103551026001A	Sample number(s): 6168975-6168995									
Antimony	0.0600	U	0.0600	0.200	mg/kg	101		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	106		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	106		82-118		
Cadmium	0.0360	U	0.0360	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	117		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.162	J	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	115		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	107		78-122		
Batch number: 103551026001B	Sample number(s): 6168975-6168995									
Selenium	0.0400	U	0.0400	0.400	mg/kg	109		79-122		
Batch number: 103551026001C	Sample number(s): 6168975-6168995									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	111		78-122		
Batch number: 103551026001D	Sample number(s): 6168975-6168995									
Barium	0.108	U	0.108	0.400	mg/kg	111		79-121		
Batch number: 103555708005	Sample number(s): 6168975-6168995									
Aluminum	4.93	U	4.93	19.6	mg/kg	103		61-110		
Boron	0.873	U	0.873	4.90	mg/kg	93		78-110		
Calcium	6.01	U	6.01	19.6	mg/kg	98		88-110		
Iron	4.62	U	4.62	19.6	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.49	U	2.49	9.80	mg/kg	98		82-110		
Manganese	0.0765	U	0.0765	0.490	mg/kg	101		81-119		
Phosphorus	1.89	J	0.549	9.80	mg/kg	103		80-120		
Potassium	17.6	U	17.6	49.0	mg/kg	98		78-110		
Sodium	36.6	U	36.6	98.0	mg/kg	99		87-110		
Strontium	0.0608	U	0.0608	0.490	mg/kg	104		79-121		
Tin	1.29	J	0.980	9.80	mg/kg	93		90-114		
Titanium	0.373	U	0.373	0.980	mg/kg	103		80-120		
Zirconium	0.824	U	0.824	4.90	mg/kg	99		80-120		
Batch number: 103555711003	Sample number(s): 6168975-6168995									
Mercury	0.0028	U	0.0028	0.0970	mg/kg	97		88-123		
Batch number: 11008008201A	Sample number(s): 6168975-6168984									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11008008201B	Sample number(s): 6168985-6168988,6168990-6168995									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11012012202A	Sample number(s): 6168975-6168984									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	89		85-115		
Batch number: 11012012202B	Sample number(s): 6168985-6168988,6168990-6168995									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	89		85-115		
Batch number: 11016243201A	Sample number(s): 6168975-6168988,6168990-6168995									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10354039402B	Sample number(s): 6168975-6168981								
22a pH by 9045C					100		95-105		
Batch number: 10354182102B	Sample number(s): 6168975-6168981								
Oxidation Reduction Potential					99		98-102		
Batch number: 10355039402A	Sample number(s): 6168982-6168987,6168990-6168993								
22a pH by 9045C					100		95-105		
Batch number: 10355039402B	Sample number(s): 6168994-6168995								
22a pH by 9045C					100		95-105		
Batch number: 10355182102A	Sample number(s): 6168982-6168987,6168990-6168993								
Oxidation Reduction Potential					100		98-102		
Batch number: 10355182102B	Sample number(s): 6168994-6168995								
Oxidation Reduction Potential					100		98-102		
Batch number: 11005162401A	Sample number(s): 6168975-6168986								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11005162401B	Sample number(s): 6168987-6168995								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10362SLG026	Sample number(s): 6168975-6168989,6168991-6168995 UNSPK: 6168987								
Acenaphthene	95	97	75-115	1	30				
Acenaphthylene	99	101	49-126	2	30				
Aniline	56	54	14-114	3	30				
Anthracene	99	98	75-115	1	30				
Benzidine	27*	28*	35-141	4	30				
Benzo(a)anthracene	98	96	65-122	2	30				
Benzo(a)pyrene	86	86	57-126	1	30				
Benzo(b)fluoranthene	89	88	59-125	1	30				
Benzo(g,h,i)perylene	81	82	59-127	1	30				
Benzo(k)fluoranthene	91	91	56-132	1	30				
Benzoic acid	37	38	10-173	4	30				
Benzyl alcohol	92	94	55-123	2	30				
4-Bromophenyl-phenylether	103	103	67-129	0	30				
Butylbenzylphthalate	108	111	73-134	3	30				
Di-n-butylphthalate	100	98	67-123	2	30				
Carbazole	96	95	64-120	1	30				
4-Chloro-3-methylphenol	96	95	53-130	1	30				
4-Chloroaniline	58	56	23-95	3	30				
bis(2-Chloroethoxy)methane	101	100	54-117	2	30				
bis(2-Chloroethyl)ether	86	89	60-116	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	92	92	55-142	1	30				
2-Chloronaphthalene	89	90	50-141	2	30				
2-Chlorophenol	97	98	73-121	1	30				
4-Chlorophenyl-phenylether	96	96	64-119	0	30				
Chrysene	95	96	62-128	2	30				
Dibenz(a,h)anthracene	83	85	65-125	2	30				
Dibenzofuran	95	97	71-112	3	30				
1,2-Dichlorobenzene	94	94	66-108	1	30				
1,3-Dichlorobenzene	88	89	63-109	0	30				
1,4-Dichlorobenzene	91	90	53-113	1	30				
3,3'-Dichlorobenzidine	75	74	25-123	1	30				
2,4-Dichlorophenol	100	99	78-117	0	30				
Diethylphthalate	95	96	66-118	1	30				
2,4-Dimethylphenol	99	98	56-130	0	30				
3,5-Dimethylphenol	107	108	70-130	0	30				
Dimethylphthalate	94	96	64-118	2	30				
4,6-Dinitro-2-methylphenol	24	25	10-148	2	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	90	90	57-114	0	30				
2,6-Dinitrotoluene	92	95	69-123	3	30				
1,2-Diphenylhydrazine	113	112	71-129	1	30				
bis(2-Ethylhexyl)phthalate	107	109	63-122	1	30				
Fluoranthene	93	89	59-122	5	30				
Fluorene	92	94	60-125	2	30				
Hexachlorobenzene	101	105	61-111	4	30				
Hexachlorobutadiene	106	106	62-120	1	30				
Hexachlorocyclopentadiene	34	38	10-153	14	30				
Hexachloroethane	84	85	57-109	1	30				
Indeno(1,2,3-cd)pyrene	82	84	61-126	2	30				
Isophorone	98	96	51-118	2	30				
1-Methylnaphthalene	97	98	73-112	0	30				
2-Methylnaphthalene	91	93	76-114	1	30				
2-Methylphenol	96	95	47-142	1	30				
4-Methylphenol	94	94	55-126	0	30				
Naphthalene	93	93	72-116	0	30				
2-Nitroaniline	105	110	67-125	4	30				
3-Nitroaniline	93	97	59-122	4	30				
4-Nitroaniline	76	77	52-112	1	30				
Nitrobenzene	103	102	51-114	1	30				
2-Nitrophenol	87	83	74-115	5	30				
4-Nitrophenol	89	93	39-133	4	30				
N-Nitroso-di-n-propylamine	94	95	60-116	1	30				
N-Nitrosodimethylamine	77	77	47-116	1	30				
N-Nitrosodiphenylamine	103	103	86-145	0	30				
Di-n-octylphthalate	105	104	56-126	0	30				
Pentachlorophenol	64	63	17-149	2	30				
Phenanthrene	97	96	65-125	0	30				
Phenol	93	96	58-126	3	30				
Pyrene	108	109	51-151	1	30				
1,2,4-Trichlorobenzene	102	101	72-115	1	30				
2,4,5-Trichlorophenol	99	99	34-139	0	30				
2,4,6-Trichlorophenol	102	105	49-140	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10362SLJ026	Sample number(s): 6168975-6168989,6168991-6168995 UNSPK: 6168987								
Acenaphthene	100	94	63-105	6	30				
Acenaphthylene	98	90	55-126	7	30				
Anthracene	96	92	46-136	4	30				
Benzo(a)anthracene	103	92	39-144	11	30				
Benzo(a)pyrene	91	82	34-156	9	30				
Benzo(b)fluoranthene	119	101	43-155	11	30				
Benzo(g,h,i)perylene	102	88	33-141	9	30				
Benzo(k)fluoranthene	112	105	42-144	6	30				
Butylbenzylphthalate	165*	131	73-140	23	30				
Di-n-butylphthalate	148	121	78-160	20	30				
Chrysene	100	88	29-156	11	30				
Dibenz(a,h)anthracene	87	87	41-130	0	30				
Diethylphthalate	107	105	87-131	2	30				
Dimethylphthalate	108	102	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	116	89	39-167	18	30				
Fluoranthene	104	99	26-166	4	30				
Fluorene	94	97	45-121	3	30				
Indeno(1,2,3-cd)pyrene	98	87	21-143	10	30				
1-Methylnaphthalene	93	95	72-123	2	30				
2-Methylnaphthalene	89	84	28-121	5	30				
Naphthalene	96	89	61-102	7	30				
N-Nitrosodimethylamine	98	95	48-113	3	30				
Di-n-octylphthalate	127	121	40-192	4	30				
Phenanthrene	95	93	12-165	2	30				
Pyrene	118	81	15-153	30	30				
Batch number: 103630016A	Sample number(s): 6168975-6168989,6168991-6168995 UNSPK: 6168987								
2,4-D	85	88	28-161	4	35				
Dalapon	41	0*	12-86	200*	50				
2,4-DB	15*	-3*	20-170	12	50				
Dicamba	86	154*	33-120	57*	50				
Dinoseb	9	9	1-44	0	35				
2,4-DP (Dichlorprop)	104	107	55-141	3	50				
MCPA	56	59	31-184	3	50				
MCPP (Mecoprop)	115	104	16-174	10	50				
2,4,5-T	93	81	25-132	14	35				
2,4,5-TP	104	80	10-183	26	35				
Batch number: 110040016A	Sample number(s): 6168981,6168994 UNSPK: P167468								
6a Perchlorate EPA 6850	110	110	80-120	0	20				
Batch number: 103610031A	Sample number(s): 6168975-6168989,6168991-6168995 UNSPK: 6168987								
Aldrin	73	79	16-126	8	50				
Alpha BHC	34	40	10-129	10	50				
Beta BHC	66	75	14-147	13	50				
Gamma BHC - Lindane	61	61	10-140	0	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	100	125	18-161	22	50				
p,p-DDT	0*	0*	10-176	0	50				
Delta BHC	84	97	23-140	14	50				
Dieldrin	0*	0*	19-154	0	50				
Endosulfan I	0*	0*	16-137	0	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan II	98	134	28-154	30	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	200*	250*	11-149	22	50				
Endrin Aldehyde	162*	202*	10-148	22	35				
Endrin Ketone	77	64	22-165	19	50				
Heptachlor	73	67	13-126	9	50				
Heptachlor Epoxide	103	158*	13-157	42	50				
Methoxychlor	55	99	32-147	57*	50				
Batch number: 103610032A	Sample number(s): 6168975-6168989,6168991-6168995 UNSPK: 6168987								
PCB-1016	171*	147*	29-146	15	50				
PCB-1260	499*	183*	39-149	45	50				
Batch number: 103551026001A	Sample number(s): 6168975-6168995 UNSPK: 6168987 BKG: 6168987								
Antimony	17*	19*	75-125	5	20	0.194 J	0.111 J	54* (1)	20
Arsenic	31 (2)	83 (2)	75-125	10	20	8.63	10.3	18	20
Beryllium	64*	82	75-125	9	20	0.807	0.833	3	20
Cadmium	69*	73*	75-125	0	20	1.48	1.20	21*	20
Chromium	56*	41 (2)	75-125	4	20	38.9	36.2	7	20
Cobalt	79	80	75-125	2	20	6.53	6.99	7	20
Copper	33*	303*	75-125	53*	20	32.5	29.4	10	20
Lead	-40 (2)	-15 (2)	75-125	4	20	19.2	18.5	4	20
Nickel	63*	72*	75-125	2	20	17.9	17.3	3	20
Silver	60*	124 (2)	75-125	12	20	39.7	34.2	15	20
Thallium	89	88	75-125	3	20	0.287	0.285	1 (1)	20
Vanadium	44*	36*	75-125	2	20	37.3	37.6	1	20
Zinc	-113 (2)	-41 (2)	75-125	7	20	117	103	13	20
Batch number: 103551026001B	Sample number(s): 6168975-6168995 UNSPK: 6168987 BKG: 6168987								
Selenium	87	97	75-125	5	20	0.283 J	0.260 J	8 (1)	20
Batch number: 103551026001C	Sample number(s): 6168975-6168995 UNSPK: 6168987 BKG: 6168987								
Molybdenum	94	100	75-125	2	20	0.966	1.01	5	20
Batch number: 103551026001D	Sample number(s): 6168975-6168995 UNSPK: 6168987 BKG: 6168987								
Barium	-159 (2)	-80 (2)	75-125	7	20	126	118	7	20
Batch number: 103555708005	Sample number(s): 6168975-6168995 UNSPK: 6168987 BKG: 6168987								
Aluminum	680 (2)	2511 (2)	75-125	14	20	22,300	22,200	0	20
Boron	93	93	84-115	3	20	4.61 J	5.55	18 (1)	20
Calcium	-8 (2)	231 (2)	75-125	16	20	5,370	5,610	4	20
Iron	703 (2)	1673 (2)	75-125	3	20	25,300	25,500	1	20
Lithium	92	96	82-114	0	20	35.8	35.4	1	20
Magnesium	-5 (2)	287 (2)	75-125	10	20	5,430	5,510	1	20
Manganese	193 (2)	88 (2)	75-125	13	20	342	342	0	20
Phosphorus	50 (2)	103 (2)	75-125	9	20	487	486	0	20
Potassium	86	110 (2)	75-125	4	20	3,910	3,880	1	20
Sodium	100	100	75-125	2	20	103	102	1 (1)	20
Strontium	93	101	75-115	4	20	36.1	37.1	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Tin	83	80	80-110	6	20	2.72	J	2.76	J	1 (1)	20
Titanium	185 (2)	265 (2)	75-125	5	20	1,320		1,290		2	20
Zirconium	90	88	75-125	5	20	2.10	J	2.37	J	12 (1)	20
Batch number: 103555711003	Sample number(s): 6168975-6168995 UNSPK: 6168987 BKG: 6168987										
Mercury	102	101	65-135	5	20	0.0609	J	0.0639	J	5 (1)	20
Batch number: 11008008201A	Sample number(s): 6168975-6168984 UNSPK: 6168984 BKG: 6168984										
11a Anions by 300.0 - Fluoride	50*		80-120			4.3		3.4		22* (1)	20
Batch number: 11008008201B	Sample number(s): 6168985-6168988,6168990-6168995 UNSPK: 6168987 BKG: 6168987										
11a Anions by 300.0 - Fluoride	50*		80-120			3.8		3.2		16 (1)	20
Batch number: 11012012202A	Sample number(s): 6168975-6168984 UNSPK: 6168975 BKG: 6168975										
7a Perchlorate EPA 314.0	81		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11012012202B	Sample number(s): 6168985-6168988,6168990-6168995 UNSPK: 6168987 BKG: 6168987										
7a Perchlorate EPA 314.0	89		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11016243201A	Sample number(s): 6168975-6168988,6168990-6168995 UNSPK: 6168987 BKG: 6168987										
3a Cr VI by EPA 7199	101		75-125			0.77	J	2.2		95* (1)	20
Batch number: 10354039402B	Sample number(s): 6168975-6168981 BKG: P167525										
22a pH by 9045C						7.62		7.66		1	1
Batch number: 10354182102B	Sample number(s): 6168975-6168981 BKG: P167525										
Oxidation Reduction Potential						424		430		1	6
Batch number: 10355039402A	Sample number(s): 6168982-6168987,6168990-6168993 BKG: 6168987										
22a pH by 9045C						8.13		8.12		0	1
Batch number: 10355039402B	Sample number(s): 6168994-6168995 BKG: P169019										
22a pH by 9045C						7.56		7.59		0	1
Batch number: 10355182102A	Sample number(s): 6168982-6168987,6168990-6168993 BKG: 6168987										
Oxidation Reduction Potential						464		465		0	6
Batch number: 10355182102B	Sample number(s): 6168994-6168995 BKG: P169019										
Oxidation Reduction Potential						515		511		1	6
Batch number: 11005162401A	Sample number(s): 6168975-6168986 BKG: 6168986										
28a Moisture Content by 160.3						10.0		9.9		1	20
Batch number: 11005162401B	Sample number(s): 6168987-6168995 BKG: 6168987										
28a Moisture Content by 160.3						11.4		11.7		2	20
28a Moisture Content by 160.3						11.4		11.7		2	20
28a Moisture Content by 160.3						11.4		11.7		2	20

Surrogate Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10362SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6168975	88	86	98	84	94	95
6168976	92	90	104	87	99	99
6168977	94	93	99	87	97	99
6168978	91	90	100	85	98	98
6168979	90	91	104	84	97	92
6168980	87	87	102	81	94	97
6168981	82	83	89	78	92	96
6168982	90	90	101	86	99	95
6168983	76	77	84	72	82	82
6168984	89	88	102	84	97	97
6168985	86	86	98	81	92	89
6168986	91	91	106	83	98	100
6168987	88	86	93	81	92	98
6168988	94	92	102	92	99	97
6168989	94	92	104	91	99	97
6168991	93	91	105	85	100	94
6168992	90	91	100	86	98	91
6168993	87	87	97	81	93	91
6168994	90	89	105	85	96	95
6168995	86	87	96	82	95	93
Blank	97	97	116	89	101	98
LCS	94	93	112	95	97	94
MS	94	92	102	92	99	97
MSD	94	92	104	91	99	97
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10362SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6168975	99	84	108
6168976	94	84	99
6168977	102	90	96
6168978	102	87	94
6168979	94	85	99
6168980	94	90	102
6168981	98	83	98
6168982	103	85	99
6168983	106	84	98
6168984	94	84	95
6168985	102	84	99
6168986	96	85	95
6168987	107	85	91
6168988	105	89	109
6168989	99	84	92
6168991	95	85	92
6168992	96	87	96
6168993	94	86	93
6168994	103	89	97
6168995	101	84	93

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Surrogate Quality Control

Blank	104	97	105
LCS	99	93	89
MS	105	89	109
MSD	99	84	92
Limits:	40-130	45-130	45-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 103610031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6168975	79	91
6168976	72	57
6168977	76	96
6168978	75	97
6168979	81	63
6168980	83	78
6168981	75	111
6168982	69	60
6168983	88	129*
6168984	71	248*
6168985	69	116
6168986	67	49
6168987	68	396*
6168988	64	45
6168989	73	50
6168991	78	86
6168992	84	90
6168993	85	88
6168994	76	172*
6168995	89	63
Blank	70	62
LCS	70	82
MS	64	45
MSD	73	50
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103610032A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6168975	106	120
6168976	102	119
6168977	66	102
6168978	137	167*
6168979	97	126*
6168980	81	99
6168981	165*	214*
6168982	94	118
6168983	139	357*
6168984	105	139*
6168985	91	114
6168986	80	103
6168987	102	135*
6168988	113	111
6168989	109	91
6168991	103	123*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226237
Reported: 01/25/11 at 01:47 PM

Surrogate Quality Control

6168992	96	122*
6168993	99	117
6168994	101	132*
6168995	102	111
Blank	89	106
LCS	94	103
LCSD	104	138*
MS	113	111
MSD	109	91
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103630016A

	2,4-Dichlorophenylacetic acid
6168975	136
6168976	192*
6168977	99
6168978	114
6168979	96
6168980	110
6168981	76
6168982	108
6168983	88
6168984	123
6168985	123
6168986	152
6168987	137
6168988	144
6168989	86
6168991	122
6168992	63
6168993	120
6168994	155
6168995	144
Blank	108
LCS	103
MS	144
MSD	86
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1226237 sample# 61608975-95

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	PercNorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP08-SA5B-QC-121710	12.17.10	1407	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										surface soil DUP
EB05-SA5B-121710	12.17.10	1235	water	none	6-1 liter ambers			X						X	X			X	X										surface tool rinsate
EB05-SA5B-121710	12.17.10	1235	water	none	1-500 ml poly							X	X			X													surface tool rinsate
EB05-SA5B-121710	12.17.10	1235	water	HNO3	1-500 ml poly						X																		surface tool rinsate
EB01-SIV-121710	12.17.10	1235	water	none	6-1 liter ambers			X						X	X			X	X										sediment tool rinsate
EB01-SIV-121710	12.17.10	1235	water	none	1-500 ml poly							X	X			X													sediment tool rinsate
EB01-SIV-121710	12.17.10	1235	water	HNO3	1-500 ml poly						X																		sediment tool rinsate
SED-014-SIV-SD-0.0-0.5	12.17.10	0844	soil	none	1 x 16 oz. jars & 1 6" sleeves			X			X	X	X	X	X	X		X	X										
SED-012-SIV-SD-0.0-0.5	12.17.10	1024	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-006-SIV-SD-0.0-0.5	12.17.10	1525	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-001-SIV-SD-0.0-0.5	12.17.10	1241	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-004-SIV-SD-0.0-0.5	12.17.10	1142	soil	none	1 x 16 oz. jars & 1 6" sleeves			X			X	X	X	X	X	X		X	X										
SL-282-SA5B-SB-4.0-5.0	12.17.10	1020	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-282-SA5B-SB-4.5	12.17.10	1015	soil	none	5 Encore Samplers	X	X		X																				
SL-282-SA5B-SB-7.5	12.17.10	1024	soil	none	5 Encore Samplers	X	X		X																				
SL-282-SA5B-SB-7.0-8.0	12.17.10	1028	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-4.0-5.0	12.17.10	1230	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-4.5	12.17.10	1225	soil	none	5 Encore Samplers	X	X		X																				
SL-281-SA5B-SB-8.0-9.0	12.17.10	1237	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-8.5	12.17.10	1233	soil	none	5 Encore Samplers	X	X		X																				
SL-026-SA5B-4.0-5.0	12.17.10	1508	soil	none	4 16 oz. Jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-026-SA5B-4.5	12.17.10	1503	soil	none	5 Encore Samplers	X	X		X																				
SL-026-SA5B-9.0-10	12.17.10	1519	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-026-SA5B-9.5	12.17.10	1513	soil	none	5 Encore Samplers	X	X		X																				
SL-207-SA5B-SS-0.0-0.5	12.17.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-208-SA5B-SS-0.0-0.5	12.17.10	1053	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-276-SA5B-SS-0.0-0.5	12.17.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-210-SA5B-SS-0.0-0.5	12.17.10	1128	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-275-SA5B-SS-0.0-0.5	12.17.10	0945	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-206-SA5B-SS-0.0-0.5	12.17.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-209-SA5B-SS-0.0-0.5	12.17.10	1142	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-161-SA5B-SS-0.0-0.5	12.17.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-162-SA5B-SS-0.0-0.5	12.17.10	0942	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-274-SA5B-SS-0.0-0.5	12.17.10	1128	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-166-SA5B-SS-0.0-0.5	12.17.10	1108	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-160-SA5B-SS-0.0-0.5	12.17.10	1122	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-211-SA5B-SS-0.0-0.5MS	12.17.10	1402	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										surface soil MS/MSD
SL-278-SA5B-SS-0.0-0.5	12.17.10	1411	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-279-SA5B-SS-0.0-0.5	12.17.10	1428	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-277-SA5B-SS-0.0-0.5	12.17.10	1355	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-273-SA5B-SS-0.0-0.5	12.17.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
SL-272-SA5B-SS-0.0-0.5	12.17.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
TB-121710	12.17.10	0800	water	HCl	4-40 ml clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.17.10 1700		12/18/10 1240	Lancaster Laboratories, Inc.
Relinquished by: (Signature)	Date/Time	Airbill No.		No. of coolers = 5
		00732992		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/18/2010
Group Number: 1226238
SDG: DX028
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-207-SA5B-SS-0.0-0.5 Soil	6168996
SL-208-SA5B-SS-0.0-0.5 Soil	6168997
SL-276-SA5B-SS-0.0-0.5 Soil	6168998
SL-210-SA5B-SS-0.0-0.5 Soil	6168999
SL-275-SA5B-SS-0.0-0.5 Soil	6169000
SL-206-SA5B-SS-0.0-0.5 Soil	6169001
SL-209-SA5B-SS-0.0-0.5 Soil	6169002
SL-161-SA5B-SS-0.0-0.5 Soil	6169003
SL-162-SA5B-SS-0.0-0.5 Soil	6169004
SL-274-SA5B-SS-0.0-0.5 Soil	6169005
SL-166-SA5B-SS-0.0-0.5 Soil	6169006
SL-160-SA5B-SS-0.0-0.5 Soil	6169007
SL-211-SA5B-SS-0.0-0.5 Soil	6169008
SL-211-SA5B-SS-0.0-0.5MS Soil	6169009
SL-211-SA5B-SS-0.0-0.5MSD Soil	6169010
SL-278-SA5B-SS-0.0-0.5 Soil	6169011
SL-279-SA5B-SS-0.0-0.5 Soil	6169012
SL-277-SA5B-SS-0.0-0.5 Soil	6169013
SL-273-SA5B-SS-0.0-0.5 Soil	6169014
SL-272-SA5B-SS-0.0-0.5 Soil	6169015

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

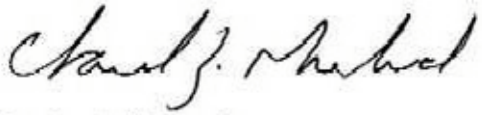

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168996
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2801 SDG#: DX028-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-207-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168996
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2801 SDG#: DX028-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0519	J	0.00308	0.0531	1
11031	12378-PeCDD	40321-76-4	0.399	BQ	0.00531	0.265	1
11031	123478-HxCDD	39227-28-6	0.658	B	0.00340	0.265	1
11031	123678-HxCDD	57653-85-7	1.72	B	0.00350	0.265	1
11031	123789-HxCDD	19408-74-3	1.42	B	0.00329	0.265	1
11031	1234678-HpCDD	35822-46-9	44.6	B	0.0121	0.265	1
11031	OCDD	3268-87-9	681	EB	0.00679	0.531	1
11031	2378-TCDF	51207-31-9	0.0720	B	0.00711	0.0531	1
11031	12378-PeCDF	57117-41-6	0.230	JB	0.00276	0.265	1
11031	23478-PeCDF	57117-31-4	0.104	JB	0.00255	0.265	1
11031	123478-HxCDF	70648-26-9	0.243	JB	0.00425	0.265	1
11031	123678-HxCDF	57117-44-9	0.207	JB	0.00372	0.265	1
11031	123789-HxCDF	72918-21-9	0.0695	JB	0.00414	0.265	1
11031	234678-HxCDF	60851-34-5	0.318	B	0.00393	0.265	1
11031	1234678-HpCDF	67562-39-4	4.57	B	0.00265	0.265	1
11031	1234789-HpCDF	55673-89-7	0.477	B	0.00361	0.265	1
11031	OCDF	39001-02-0	13.2	B	0.00287	0.531	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	86	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168996
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2801 SDG#: DX028-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SS-0.0-0.5

LLI Sample # SW 6168996
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:10

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2801 SDG#: DX028-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/26/2011 17:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-208-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168997
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2802 SDG#: DX028-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168997
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2802 SDG#: DX028-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.177	J	0.0284	1.05	1
11031	12378-PeCDD	40321-76-4	1.55	JB	0.0542	5.25	1
11031	123478-HxCDD	39227-28-6	2.49	JB	0.0512	5.25	1
11031	123678-HxCDD	57653-85-7	6.97	B	0.0535	5.25	1
11031	123789-HxCDD	19408-74-3	6.31	B	0.0518	5.25	1
11031	1234678-HpCDD	35822-46-9	192	B	0.118	5.25	1
11031	OCDD	3268-87-9	4,410	EB	0.101	10.5	1
11031	2378-TCDF	51207-31-9	0.179	JB	0.0458	1.05	1
11031	12378-PeCDF	57117-41-6	0.446	JBQ	0.0235	5.25	1
11031	23478-PeCDF	57117-31-4	0.420	JB	0.0226	5.25	1
11031	123478-HxCDF	70648-26-9	0.768	JBQ	0.0301	5.25	1
11031	123678-HxCDF	57117-44-9	0.406	JB	0.0272	5.25	1
11031	123789-HxCDF	72918-21-9	0.477	JB	0.0326	5.25	1
11031	234678-HxCDF	60851-34-5	0.597	JB	0.0299	5.25	1
11031	1234678-HpCDF	67562-39-4	12.0	B	0.0278	5.25	1
11031	1234789-HpCDF	55673-89-7	0.684	JB	0.0360	5.25	1
11031	OCDF	39001-02-0	42.3	B	0.0304	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	90	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-208-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168997
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2802 SDG#: DX028-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-208-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-208-SA5B-SS-0.0-0.5

LLI Sample # SW 6168997
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:53

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2802 SDG#: DX028-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/26/2011 18:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168998
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2803 SDG#: DX028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168998
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2803 SDG#: DX028-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.126	JQ	0.0353	1.04	1
11031	12378-PeCDD	40321-76-4	0.452	JBQ	0.0580	5.21	1
11031	123478-HxCDD	39227-28-6	0.687	JB	0.0484	5.21	1
11031	123678-HxCDD	57653-85-7	2.94	JB	0.0504	5.21	1
11031	123789-HxCDD	19408-74-3	2.09	JB	0.0470	5.21	1
11031	1234678-HpCDD	35822-46-9	69.6	B	0.0990	5.21	1
11031	OCDD	3268-87-9	1,880	B	0.0674	10.4	1
11031	2378-TCDF	51207-31-9	0.632	JBQ	0.0830	1.04	1
11031	12378-PeCDF	57117-41-6	3.67	JB	0.0360	5.21	1
11031	23478-PeCDF	57117-31-4	0.922	JB	0.0336	5.21	1
11031	123478-HxCDF	70648-26-9	0.712	JB	0.0385	5.21	1
11031	123678-HxCDF	57117-44-9	0.546	JB	0.0342	5.21	1
11031	123789-HxCDF	72918-21-9	0.666	JB	0.0407	5.21	1
11031	234678-HxCDF	60851-34-5	0.687	JB	0.0349	5.21	1
11031	1234678-HpCDF	67562-39-4	7.97	B	0.0313	5.21	1
11031	1234789-HpCDF	55673-89-7	0.580	JB	0.0450	5.21	1
11031	OCDF	39001-02-0	26.4	B	0.0339	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168998
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2803 SDG#: DX028-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-276-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SS-0.0-0.5

LLI Sample # SW 6168998
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:30

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2803 SDG#: DX028-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/26/2011 19:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-210-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168999
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2804 SDG#: DX028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-210-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168999
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2804 SDG#: DX028-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.614	J	0.0429	1.05	1
11031	12378-PeCDD	40321-76-4	2.13	JBQ	0.0903	5.27	1
11031	123478-HxCDD	39227-28-6	5.60	B	0.0671	5.27	1
11031	123678-HxCDD	57653-85-7	24.6	B	0.0667	5.27	1
11031	123789-HxCDD	19408-74-3	11.1	B	0.0644	5.27	1
11031	1234678-HpCDD	35822-46-9	618	B	0.156	5.27	1
11031	OCDD	3268-87-9	7,090	EB	0.0916	10.5	1
11031	2378-TCDF	51207-31-9	1.61	B	0.134	1.05	1
11650	2378-TCDF-Conf	51207-31-9	1.52	B	0.0586	1.05	1
11031	12378-PeCDF	57117-41-6	3.60	JB	0.0449	5.27	1
11031	23478-PeCDF	57117-31-4	2.17	JB	0.0454	5.27	1
11031	123478-HxCDF	70648-26-9	4.47	JB	0.0710	5.27	1
11031	123678-HxCDF	57117-44-9	4.54	JB	0.0636	5.27	1
11031	123789-HxCDF	72918-21-9	1.18	JB	0.0754	5.27	1
11031	234678-HxCDF	60851-34-5	7.65	B	0.0679	5.27	1
11031	1234678-HpCDF	67562-39-4	94.6	B	0.0464	5.27	1
11031	1234789-HpCDF	55673-89-7	10.6	B	0.0651	5.27	1
11031	OCDF	39001-02-0	222	B	0.0537	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-210-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168999
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2804 SDG#: DX028-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-210-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SS-0.0-0.5

LLI Sample # SW 6168999
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2804 SDG#: DX028-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/26/2011 19:58	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11011001	02/06/2011 00:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-275-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6169000
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2805 SDG#: DX028-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-275-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6169000
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2805 SDG#: DX028-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0595	J	0.0316	1.07	1
11031	12378-PeCDD	40321-76-4	0.402	JBQ	0.0507	5.34	1
11031	123478-HxCDD	39227-28-6	0.540	JBQ	0.0480	5.34	1
11031	123678-HxCDD	57653-85-7	1.68	JB	0.0504	5.34	1
11031	123789-HxCDD	19408-74-3	1.57	JB	0.0467	5.34	1
11031	1234678-HpCDD	35822-46-9	40.9	B	0.0693	5.34	1
11031	OCDD	3268-87-9	646	B	0.0601	10.7	1
11031	2378-TCDF	51207-31-9	0.453	JBQ	0.0750	1.07	1
11031	12378-PeCDF	57117-41-6	0.538	JB	0.0289	5.34	1
11031	23478-PeCDF	57117-31-4	0.611	JB	0.0277	5.34	1
11031	123478-HxCDF	70648-26-9	0.363	JB	0.0433	5.34	1
11031	123678-HxCDF	57117-44-9	0.309	JBQ	0.0382	5.34	1
11031	123789-HxCDF	72918-21-9	0.541	JBQ	0.0433	5.34	1
11031	234678-HxCDF	60851-34-5	0.437	JB	0.0385	5.34	1
11031	1234678-HpCDF	67562-39-4	5.86	B	0.0365	5.34	1
11031	1234789-HpCDF	55673-89-7	0.357	JBQ	0.0496	5.34	1
11031	OCDF	39001-02-0	16.0	B	0.0415	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-275-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6169000
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2805 SDG#: DX028-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-275-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SS-0.0-0.5

LLI Sample # SW 6169000
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:45

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2805 SDG#: DX028-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/26/2011 20:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-206-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6169001
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2806 SDG#: DX028-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-206-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6169001
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2806 SDG#: DX028-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.220	J	0.0390	1.05	1
11031	12378-PeCDD	40321-76-4	2.26	JB	0.0698	5.23	1
11031	123478-HxCDD	39227-28-6	3.45	JBQ	0.0581	5.23	1
11031	123678-HxCDD	57653-85-7	8.35	B	0.0608	5.23	1
11031	123789-HxCDD	19408-74-3	8.33	B	0.0568	5.23	1
11031	1234678-HpCDD	35822-46-9	215	B	0.129	5.23	1
11031	OCDD	3268-87-9	3,780	B	0.0981	10.5	1
11031	2378-TCDF	51207-31-9	0.172	JBQ	0.0643	1.05	1
11031	12378-PeCDF	57117-41-6	0.411	JB	0.0306	5.23	1
11031	23478-PeCDF	57117-31-4	0.491	JB	0.0297	5.23	1
11031	123478-HxCDF	70648-26-9	1.03	JB	0.0579	5.23	1
11031	123678-HxCDF	57117-44-9	0.771	JB	0.0524	5.23	1
11031	123789-HxCDF	72918-21-9	0.426	JBQ	0.0633	5.23	1
11031	234678-HxCDF	60851-34-5	0.995	JB	0.0552	5.23	1
11031	1234678-HpCDF	67562-39-4	27.1	B	0.0442	5.23	1
11031	1234789-HpCDF	55673-89-7	1.99	JB	0.0622	5.23	1
11031	OCDF	39001-02-0	120	B	0.0491	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	100	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-206-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6169001
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2806 SDG#: DX028-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-206-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5B-SS-0.0-0.5

LLI Sample # SW 6169001
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:10

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2806 SDG#: DX028-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/26/2011 21:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6169002
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2807 SDG#: DX028-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6169002
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2807 SDG#: DX028-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.666	JQ	0.0451	1.07	1
11031	12378-PeCDD	40321-76-4	3.54	JBQ	0.0890	5.35	1
11031	123478-HxCDD	39227-28-6	6.83	B	0.0664	5.35	1
11031	123678-HxCDD	57653-85-7	26.7	B	0.0680	5.35	1
11031	123789-HxCDD	19408-74-3	13.1	B	0.0656	5.35	1
11031	1234678-HpCDD	35822-46-9	693	B	0.149	5.35	1
11031	OCDD	3268-87-9	9,010	EB	0.101	10.7	1
11031	2378-TCDF	51207-31-9	1.82	B	0.129	1.07	1
11650	2378-TCDF-Conf	51207-31-9	1.60	B	0.0587	1.07	1
11031	12378-PeCDF	57117-41-6	3.53	JB	0.0406	5.35	1
11031	23478-PeCDF	57117-31-4	2.34	JB	0.0412	5.35	1
11031	123478-HxCDF	70648-26-9	5.00	JB	0.0752	5.35	1
11031	123678-HxCDF	57117-44-9	5.05	JB	0.0663	5.35	1
11031	123789-HxCDF	72918-21-9	1.39	JB	0.0739	5.35	1
11031	234678-HxCDF	60851-34-5	8.65	B	0.0720	5.35	1
11031	1234678-HpCDF	67562-39-4	101	B	0.0422	5.35	1
11031	1234789-HpCDF	55673-89-7	12.0	B	0.0567	5.35	1
11031	OCDF	39001-02-0	231	B	0.0383	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	81	24 - 169
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6169002
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2807 SDG#: DX028-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-209-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SS-0.0-0.5

LLI Sample # SW 6169002
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2807 SDG#: DX028-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 01:51	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11011001	02/06/2011 01:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6169003
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2808 SDG#: DX028-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6169003
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2808 SDG#: DX028-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	2.85	0.0867	1.20	1
11031	12378-PeCDD	40321-76-4	7.76 B	0.139	6.00	1
11031	123478-HxCDD	39227-28-6	20.0 B	0.130	6.00	1
11031	123678-HxCDD	57653-85-7	78.7 B	0.133	6.00	1
11031	123789-HxCDD	19408-74-3	38.4 B	0.130	6.00	1
11031	1234678-HpCDD	35822-46-9	2,230 B	0.281	6.00	1
11031	OCDD	3268-87-9	27,400 EB	0.224	12.0	1
11031	2378-TCDF	51207-31-9	6.09 B	0.255	1.20	1
11650	2378-TCDF-Conf	51207-31-9	5.86 B	0.0801	1.20	1
11031	12378-PeCDF	57117-41-6	14.4 B	0.0737	6.00	1
11031	23478-PeCDF	57117-31-4	6.95 B	0.0722	6.00	1
11031	123478-HxCDF	70648-26-9	14.5 B	0.115	6.00	1
11031	123678-HxCDF	57117-44-9	14.2 B	0.107	6.00	1
11031	123789-HxCDF	72918-21-9	3.16 JB	0.116	6.00	1
11031	234678-HxCDF	60851-34-5	22.6 B	0.115	6.00	1
11031	1234678-HpCDF	67562-39-4	285 B	0.0777	6.00	1
11031	1234789-HpCDF	55673-89-7	32.4 B	0.101	6.00	1
11031	OCDF	39001-02-0	699 B	0.0644	12.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	92	25 - 164
13C12-2378-TCDF-Conf	90	24 - 169
13C12-12378-PeCDD	105	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	102	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	107	24 - 185
13C12-23478-PeCDF	104	21 - 178
13C12-123478-HxCDF	89	26 - 152

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6169003
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2808 SDG#: DX028-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	95	26 - 138
13C12-OCDF	97	17 - 157
13C12-1278-TCDD (CRS)	107	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-161-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SS-0.0-0.5

LLI Sample # SW 6169003
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:04

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2808 SDG#: DX028-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 02:47	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11011001	02/06/2011 02:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-162-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6169004
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2809 SDG#: DX028-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-162-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6169004
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2809 SDG#: DX028-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	3.80	0.133	1.20	1
11031	12378-PeCDD	40321-76-4	14.2 BQ	0.241	6.00	1
11031	123478-HxCDD	39227-28-6	36.2 B	0.212	6.00	1
11031	123678-HxCDD	57653-85-7	149 B	0.213	6.00	1
11031	123789-HxCDD	19408-74-3	70.1 B	0.208	6.00	1
11031	1234678-HpCDD	35822-46-9	3,400 EB	0.406	6.00	1
11031	OCDD	3268-87-9	38,700 EB	0.283	12.0	1
11031	2378-TCDF	51207-31-9	9.85 B	0.448	1.20	1
11650	2378-TCDF-Conf	51207-31-9	9.05 B	0.106	1.20	1
11031	12378-PeCDF	57117-41-6	20.1 B	0.117	6.00	1
11031	23478-PeCDF	57117-31-4	12.2 B	0.116	6.00	1
11031	123478-HxCDF	70648-26-9	31.2 B	0.210	6.00	1
11031	123678-HxCDF	57117-44-9	32.6 B	0.196	6.00	1
11031	123789-HxCDF	72918-21-9	6.21 B	0.236	6.00	1
11031	234678-HxCDF	60851-34-5	52.7 B	0.209	6.00	1
11031	1234678-HpCDF	67562-39-4	622 B	0.165	6.00	1
11031	1234789-HpCDF	55673-89-7	72.4 B	0.204	6.00	1
11031	OCDF	39001-02-0	1,410 B	0.0995	12.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	75	26 - 152

*=This limit was used in the evaluation of the final result

Sample Description: **SL-162-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6169004
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X2809 SDG#: DX028-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-123678-HxCDF		79	26 - 123			
13C12-234678-HxCDF		75	28 - 136			
13C12-123789-HxCDF		80	29 - 147			
13C12-1234678-HpCDF		85	28 - 143			
13C12-1234789-HpCDF		83	26 - 138			
13C12-OCDF		85	17 - 157			
13C12-1278-TCDD (CRS)		89	35 - 197			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-162-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SS-0.0-0.5

LLI Sample # SW 6169004
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 09:42

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2809 SDG#: DX028-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 03:44	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11011001	02/06/2011 03:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-274-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6169005
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2810 SDG#: DX028-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-274-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6169005
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2810 SDG#: DX028-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.58	0.0659	1.09	1
11031	12378-PeCDD	40321-76-4	5.50 B	0.148	5.44	1
11031	123478-HxCDD	39227-28-6	12.8 B	0.0971	5.44	1
11031	123678-HxCDD	57653-85-7	58.7 B	0.0998	5.44	1
11031	123789-HxCDD	19408-74-3	24.7 B	0.0951	5.44	1
11031	1234678-HpCDD	35822-46-9	1,410 B	0.219	5.44	1
11031	OCDD	3268-87-9	14,300 EB	0.164	10.9	1
11031	2378-TCDF	51207-31-9	3.79 B	0.225	1.09	1
11650	2378-TCDF-Conf	51207-31-9	3.57 B	0.0927	1.09	1
11031	12378-PeCDF	57117-41-6	8.71 B	0.0620	5.44	1
11031	23478-PeCDF	57117-31-4	4.59 JB	0.0635	5.44	1
11031	123478-HxCDF	70648-26-9	11.6 B	0.113	5.44	1
11031	123678-HxCDF	57117-44-9	15.2 B	0.101	5.44	1
11031	123789-HxCDF	72918-21-9	2.78 JBQ	0.131	5.44	1
11031	234678-HxCDF	60851-34-5	19.9 B	0.109	5.44	1
11031	1234678-HpCDF	67562-39-4	238 B	0.0688	5.44	1
11031	1234789-HpCDF	55673-89-7	27.1 B	0.105	5.44	1
11031	OCDF	39001-02-0	504 B	0.0811	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	75	24 - 169
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	74	26 - 152

*=This limit was used in the evaluation of the final result

Sample Description: **SL-274-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6169005
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X2810 SDG#: DX028-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-274-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SS-0.0-0.5

LLI Sample # SW 6169005
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
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Chantilly VA 20151

X2810 SDG#: DX028-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 04:40	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11011001	02/06/2011 05:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-166-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6169006
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2811 SDG#: DX028-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-166-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6169006
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2811 SDG#: DX028-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.208	JQ	0.0396	1.04	1
11031	12378-PeCDD	40321-76-4	1.03	JB	0.0729	5.21	1
11031	123478-HxCDD	39227-28-6	2.43	JB	0.0537	5.21	1
11031	123678-HxCDD	57653-85-7	17.4	B	0.0556	5.21	1
11031	123789-HxCDD	19408-74-3	5.58	B	0.0527	5.21	1
11031	1234678-HpCDD	35822-46-9	291	B	0.139	5.21	1
11031	OCDD	3268-87-9	6,020	EB	0.0947	10.4	1
11031	2378-TCDF	51207-31-9	0.681	JBQ	0.101	1.04	1
11031	12378-PeCDF	57117-41-6	2.28	JB	0.0425	5.21	1
11031	23478-PeCDF	57117-31-4	1.40	JB	0.0410	5.21	1
11031	123478-HxCDF	70648-26-9	2.41	JB	0.0669	5.21	1
11031	123678-HxCDF	57117-44-9	1.90	JB	0.0590	5.21	1
11031	123789-HxCDF	72918-21-9	1.43	JB	0.0702	5.21	1
11031	234678-HxCDF	60851-34-5	2.73	JB	0.0637	5.21	1
11031	1234678-HpCDF	67562-39-4	41.3	B	0.0527	5.21	1
11031	1234789-HpCDF	55673-89-7	3.09	JB	0.0742	5.21	1
11031	OCDF	39001-02-0	92.0	B	0.0412	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-166-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6169006
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2811 SDG#: DX028-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-166-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5B-SS-0.0-0.5

LLI Sample # SW 6169006
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:08

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2811 SDG#: DX028-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 05:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-160-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6169007
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2812 SDG#: DX028-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-160-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6169007
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2812 SDG#: DX028-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.701	J	0.0486	1.11	1
11031	12378-PeCDD	40321-76-4	3.22	JB	0.0953	5.56	1
11031	123478-HxCDD	39227-28-6	7.20	B	0.0706	5.56	1
11031	123678-HxCDD	57653-85-7	28.4	B	0.0773	5.56	1
11031	123789-HxCDD	19408-74-3	13.2	B	0.0736	5.56	1
11031	1234678-HpCDD	35822-46-9	681	B	0.181	5.56	1
11031	OCDD	3268-87-9	6,770	EB	0.110	11.1	1
11031	2378-TCDF	51207-31-9	1.74	B	0.140	1.11	1
11650	2378-TCDF-Conf	51207-31-9	1.62	B	0.0620	1.11	1
11031	12378-PeCDF	57117-41-6	2.71	JB	0.0498	5.56	1
11031	23478-PeCDF	57117-31-4	2.04	JB	0.0459	5.56	1
11031	123478-HxCDF	70648-26-9	5.56	JB	0.0928	5.56	1
11031	123678-HxCDF	57117-44-9	6.39	B	0.0830	5.56	1
11031	123789-HxCDF	72918-21-9	1.30	JB	0.0997	5.56	1
11031	234678-HxCDF	60851-34-5	10.9	B	0.0862	5.56	1
11031	1234678-HpCDF	67562-39-4	119	B	0.0717	5.56	1
11031	1234789-HpCDF	55673-89-7	14.3	B	0.101	5.56	1
11031	OCDF	39001-02-0	269	B	0.0653	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-2378-TCDF-Conf	67	24 - 169
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Sample Description: **SL-160-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6169007
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2812 SDG#: DX028-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-160-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SS-0.0-0.5

LLI Sample # SW 6169007
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:22

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2812 SDG#: DX028-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 06:34	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11011001	02/06/2011 09:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-211-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169008
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169008
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	2.29	0.0720	1.13	1
11031	12378-PeCDD	40321-76-4	8.69 B	0.127	5.64	1
11031	123478-HxCDD	39227-28-6	19.9 B	0.105	5.64	1
11031	123678-HxCDD	57653-85-7	95.0 B	0.111	5.64	1
11031	123789-HxCDD	19408-74-3	35.9 B	0.105	5.64	1
11031	1234678-HpCDD	35822-46-9	2,150 B	0.262	5.64	1
11031	OCDD	3268-87-9	22,700 EB	0.183	11.3	1
11031	2378-TCDF	51207-31-9	4.64 B	0.238	1.13	1
11650	2378-TCDF-Conf	51207-31-9	4.57 B	0.135	1.13	1
11031	12378-PeCDF	57117-41-6	7.32 B	0.0684	5.64	1
11031	23478-PeCDF	57117-31-4	6.96 B	0.0659	5.64	1
11031	123478-HxCDF	70648-26-9	17.8 B	0.145	5.64	1
11031	123678-HxCDF	57117-44-9	19.4 B	0.133	5.64	1
11031	123789-HxCDF	72918-21-9	4.22 JB	0.157	5.64	1
11031	234678-HxCDF	60851-34-5	34.1 B	0.142	5.64	1
11031	1234678-HpCDF	67562-39-4	407 B	0.0997	5.64	1
11031	1234789-HpCDF	55673-89-7	49.6 B	0.134	5.64	1
11031	OCDF	39001-02-0	906 B	0.0870	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	73	26 - 152

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169008
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-211-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169008
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 07:30	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11011001	02/06/2011 10:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169009
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169009
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	26.1	0.0653	1.13	1
11031	12378-PeCDD	40321-76-4	130 B	0.125	5.64	1
11031	123478-HxCDD	39227-28-6	139 B	0.0956	5.64	1
11031	123678-HxCDD	57653-85-7	210 B	0.102	5.64	1
11031	123789-HxCDD	19408-74-3	158 B	0.0963	5.64	1
11031	1234678-HpCDD	35822-46-9	2,210 B	0.240	5.64	1
11031	OCDD	3268-87-9	23,000 EB	0.150	11.3	1
11031	2378-TCDF	51207-31-9	31.6 B	0.212	1.13	1
11031	12378-PeCDF	57117-41-6	126 B	0.0674	5.64	1
11031	23478-PeCDF	57117-31-4	126 B	0.0659	5.64	1
11031	123478-HxCDF	70648-26-9	135 B	0.140	5.64	1
11031	123678-HxCDF	57117-44-9	137 B	0.127	5.64	1
11031	123789-HxCDF	72918-21-9	120 B	0.146	5.64	1
11031	234678-HxCDF	60851-34-5	153 B	0.130	5.64	1
11031	1234678-HpCDF	67562-39-4	506 B	0.0927	5.64	1
11031	1234789-HpCDF	55673-89-7	166 B	0.127	5.64	1
11031	OCDF	39001-02-0	1,090 B	0.0974	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	74	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169009
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-211-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169009
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 08:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169010
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169010
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	24.7	0.0631	1.13	1
11031	12378-PeCDD	40321-76-4	125 B	0.123	5.64	1
11031	123478-HxCDD	39227-28-6	134 B	0.0885	5.64	1
11031	123678-HxCDD	57653-85-7	191 B	0.0956	5.64	1
11031	123789-HxCDD	19408-74-3	148 B	0.0876	5.64	1
11031	1234678-HpCDD	35822-46-9	1,790 B	0.228	5.64	1
11031	OCDD	3268-87-9	17,800 EB	0.146	11.3	1
11031	2378-TCDF	51207-31-9	29.2 B	0.187	1.13	1
11031	12378-PeCDF	57117-41-6	123 B	0.0573	5.64	1
11031	23478-PeCDF	57117-31-4	123 B	0.0556	5.64	1
11031	123478-HxCDF	70648-26-9	130 B	0.135	5.64	1
11031	123678-HxCDF	57117-44-9	133 B	0.126	5.64	1
11031	123789-HxCDF	72918-21-9	121 B	0.147	5.64	1
11031	234678-HxCDF	60851-34-5	144 B	0.127	5.64	1
11031	1234678-HpCDF	67562-39-4	433 B	0.102	5.64	1
11031	1234789-HpCDF	55673-89-7	154 B	0.133	5.64	1
11031	OCDF	39001-02-0	942 B	0.0736	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	82	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169010
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SS-0.0-0.5

LLI Sample # SW 6169010
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:02

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2813 SDG#: DX028-13MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 09:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-278-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6169011
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2814 SDG#: DX028-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-278-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6169011
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2814 SDG#: DX028-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0650	JQ	0.0249	1.05	1
11031	12378-PeCDD	40321-76-4	0.424	JB	0.0407	5.24	1
11031	123478-HxCDD	39227-28-6	0.529	JB	0.0467	5.24	1
11031	123678-HxCDD	57653-85-7	1.33	JB	0.0503	5.24	1
11031	123789-HxCDD	19408-74-3	1.45	JB	0.0465	5.24	1
11031	1234678-HpCDD	35822-46-9	23.1	B	0.0613	5.24	1
11031	OCDD	3268-87-9	459	B	0.0541	10.5	1
11031	2378-TCDF	51207-31-9	0.329	JBQ	0.0550	1.05	1
11031	12378-PeCDF	57117-41-6	0.685	JB	0.0280	5.24	1
11031	23478-PeCDF	57117-31-4	0.676	JB	0.0265	5.24	1
11031	123478-HxCDF	70648-26-9	0.417	JB	0.0366	5.24	1
11031	123678-HxCDF	57117-44-9	0.418	JB	0.0336	5.24	1
11031	123789-HxCDF	72918-21-9	0.558	JBQ	0.0398	5.24	1
11031	234678-HxCDF	60851-34-5	0.561	JB	0.0358	5.24	1
11031	1234678-HpCDF	67562-39-4	3.25	JB	0.0373	5.24	1
11031	1234789-HpCDF	55673-89-7	0.441	JB	0.0520	5.24	1
11031	OCDF	39001-02-0	7.83	JB	0.0354	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-278-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6169011
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2814 SDG#: DX028-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-278-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SS-0.0-0.5

LLI Sample # SW 6169011
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:11

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2814 SDG#: DX028-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 10:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-279-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6169012
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2815 SDG#: DX028-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-279-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6169012
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2815 SDG#: DX028-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0748	JQ	0.0247	1.07	1
11031	12378-PeCDD	40321-76-4	0.379	JBQ	0.0343	5.36	1
11031	123478-HxCDD	39227-28-6	0.415	JB	0.0391	5.36	1
11031	123678-HxCDD	57653-85-7	1.21	JB	0.0420	5.36	1
11031	123789-HxCDD	19408-74-3	1.11	JB	0.0389	5.36	1
11031	1234678-HpCDD	35822-46-9	30.0	B	0.0524	5.36	1
11031	OCDD	3268-87-9	567	B	0.0460	10.7	1
11031	2378-TCDF	51207-31-9	0.238	JBQ	0.0452	1.07	1
11031	12378-PeCDF	57117-41-6	0.443	JB	0.0227	5.36	1
11031	23478-PeCDF	57117-31-4	0.328	JB	0.0218	5.36	1
11031	123478-HxCDF	70648-26-9	0.372	JB	0.0315	5.36	1
11031	123678-HxCDF	57117-44-9	0.269	JB	0.0286	5.36	1
11031	123789-HxCDF	72918-21-9	0.417	JB	0.0324	5.36	1
11031	234678-HxCDF	60851-34-5	0.337	JB	0.0282	5.36	1
11031	1234678-HpCDF	67562-39-4	4.86	JB	0.0215	5.36	1
11031	1234789-HpCDF	55673-89-7	0.348	JB	0.0300	5.36	1
11031	OCDF	39001-02-0	10.2	JB	0.0327	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-279-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6169012
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2815 SDG#: DX028-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-279-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SS-0.0-0.5

LLI Sample # SW 6169012
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:28

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2815 SDG#: DX028-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 17:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-277-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6169013
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2816 SDG#: DX028-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-277-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6169013
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2816 SDG#: DX028-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0696	J	0.0240	1.06	1
11031	12378-PeCDD	40321-76-4	0.479	JB	0.0398	5.29	1
11031	123478-HxCDD	39227-28-6	0.656	JB	0.0324	5.29	1
11031	123678-HxCDD	57653-85-7	2.14	JB	0.0342	5.29	1
11031	123789-HxCDD	19408-74-3	1.94	JB	0.0324	5.29	1
11031	1234678-HpCDD	35822-46-9	52.0	B	0.0621	5.29	1
11031	OCDD	3268-87-9	957	B	0.0471	10.6	1
11031	2378-TCDF	51207-31-9	0.369	JB	0.0542	1.06	1
11031	12378-PeCDF	57117-41-6	0.845	JB	0.0222	5.29	1
11031	23478-PeCDF	57117-31-4	0.586	JB	0.0208	5.29	1
11031	123478-HxCDF	70648-26-9	0.454	JB	0.0261	5.29	1
11031	123678-HxCDF	57117-44-9	0.437	JB	0.0233	5.29	1
11031	123789-HxCDF	72918-21-9	0.505	JB	0.0273	5.29	1
11031	234678-HxCDF	60851-34-5	0.461	JB	0.0251	5.29	1
11031	1234678-HpCDF	67562-39-4	7.53	B	0.0213	5.29	1
11031	1234789-HpCDF	55673-89-7	0.470	JB	0.0296	5.29	1
11031	OCDF	39001-02-0	20.7	B	0.0267	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-277-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6169013
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2816 SDG#: DX028-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-277-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SS-0.0-0.5

LLI Sample # SW 6169013
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 13:55

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2816 SDG#: DX028-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 18:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-273-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6169014
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2817 SDG#: DX028-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6169014
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2817 SDG#: DX028-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.36	0.0485	1.07	1
11031	12378-PeCDD	40321-76-4	6.17 BQ	0.0732	5.34	1
11031	123478-HxCDD	39227-28-6	11.2 B	0.0528	5.34	1
11031	123678-HxCDD	57653-85-7	41.4 B	0.0568	5.34	1
11031	123789-HxCDD	19408-74-3	22.3 B	0.0537	5.34	1
11031	1234678-HpCDD	35822-46-9	1,170 B	0.132	5.34	1
11031	OCDD	3268-87-9	14,000 EB	0.0840	10.7	1
11031	2378-TCDF	51207-31-9	3.14 B	0.135	1.07	1
11650	2378-TCDF-Conf	51207-31-9	2.99 B	0.0596	1.07	1
11031	12378-PeCDF	57117-41-6	6.30 B	0.0434	5.34	1
11031	23478-PeCDF	57117-31-4	3.35 JB	0.0400	5.34	1
11031	123478-HxCDF	70648-26-9	7.15 B	0.0566	5.34	1
11031	123678-HxCDF	57117-44-9	7.59 B	0.0506	5.34	1
11031	123789-HxCDF	72918-21-9	1.63 JB	0.0615	5.34	1
11031	234678-HxCDF	60851-34-5	12.0 B	0.0536	5.34	1
11031	1234678-HpCDF	67562-39-4	140 B	0.0363	5.34	1
11031	1234789-HpCDF	55673-89-7	17.0 B	0.0513	5.34	1
11031	OCDF	39001-02-0	337 B	0.0468	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-2378-TCDF-Conf	68	24 - 169
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	66	26 - 152

*=This limit was used in the evaluation of the final result

Sample Description: **SL-273-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6169014
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2817 SDG#: DX028-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-273-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SS-0.0-0.5

LLI Sample # SW 6169014
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:20

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2817 SDG#: DX028-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 19:38	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11011001	02/06/2011 11:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-272-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6169015
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2818 SDG#: DX028-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6169015
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2818 SDG#: DX028-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.132	JQ	0.0252	1.05	1
11031	12378-PeCDD	40321-76-4	1.01	JBQ	0.0506	5.26	1
11031	123478-HxCDD	39227-28-6	1.74	JB	0.0461	5.26	1
11031	123678-HxCDD	57653-85-7	5.36	B	0.0478	5.26	1
11031	123789-HxCDD	19408-74-3	4.08	JB	0.0443	5.26	1
11031	1234678-HpCDD	35822-46-9	177	B	0.101	5.26	1
11031	OCDD	3268-87-9	4,560	EB	0.0685	10.5	1
11031	2378-TCDF	51207-31-9	0.116	JBQ	0.0359	1.05	1
11031	12378-PeCDF	57117-41-6	0.223	JB	0.0192	5.26	1
11031	23478-PeCDF	57117-31-4	0.292	JB	0.0181	5.26	1
11031	123478-HxCDF	70648-26-9	0.611	JB	0.0293	5.26	1
11031	123678-HxCDF	57117-44-9	0.308	JB	0.0258	5.26	1
11031	123789-HxCDF	72918-21-9	0.378	JB	0.0351	5.26	1
11031	234678-HxCDF	60851-34-5	0.463	JB	0.0287	5.26	1
11031	1234678-HpCDF	67562-39-4	9.84	B	0.0204	5.26	1
11031	1234789-HpCDF	55673-89-7	0.503	JB	0.0285	5.26	1
11031	OCDF	39001-02-0	33.8	B	0.0307	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-272-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6169015
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2818 SDG#: DX028-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-272-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SS-0.0-0.5

LLI Sample # SW 6169015
LLI Group # 1226238
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:40

Submitted: 12/18/2010 12:40
Reported: 02/21/2011 17:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2818 SDG#: DX028-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11011001	01/27/2011 20:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11011001	01/11/2011 14:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401B	01/05/2011 18:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226238
Reported: 02/21/11 at 05:22 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11005162401A	Sample number(s): 6168996-6169007								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11005162401B	Sample number(s): 6169008-6169015								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11011001	Sample number(s): 6168996-6169015								
2378-TCDD	0.0249 U	0.0249	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0277 J	0.0220	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0220 J	0.0163	5.00	ng/kg	105		70-164		
123678-HxCDD	0.0244 J	0.0165	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0263 J	0.0163	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.101 J	0.0234	5.00	ng/kg	103		70-140		
OCDD	0.171 J	0.0194	10.0	ng/kg	103		78-144		
2378-TCDF	0.0308 J	0.0296	1.00	ng/kg	117		75-158		
2378-TCDF-Conf	0.0444 J	0.0365	1.00	ng/kg					
12378-PeCDF	0.0319 J	0.0116	5.00	ng/kg	106		80-134		
23478-PeCDF	0.0683 J	0.0108	5.00	ng/kg	108		68-160		
123478-HxCDF	0.0378 J	0.0115	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0493 J	0.0104	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0436 J	0.0121	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0491 J	0.0108	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.107 J	0.00920	5.00	ng/kg	104		82-122		
1234789-HpCDF	0.0537 J	0.0127	5.00	ng/kg	105		78-138		
OCDF	0.216 J	0.0260	10.0	ng/kg	104		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11005162401A	Sample number(s): 6168996-6169007					BKG: P168986			
28a Moisture Content by 160.3						10.0	9.9	1	20
Batch number: 11005162401B	Sample number(s): 6169008-6169015					BKG: P168987			
28a Moisture Content by 160.3						11.4	11.7	2	20
Batch number: 11011001	Sample number(s): 6168996-6169015 UNSPK: 6169008								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226238
Reported: 02/21/11 at 05:22 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	105	99	67-158	5	25				
12378-PeCDD	107	103	70-142	4	25				
123478-HxCDD	105	101	70-164	4	25				
123678-HxCDD	102	85	76-134	10	25				
123789-HxCDD	108	99	64-162	7	25				
1234678-HpCDD	57 (2)	-315 (2)	70-140	21	25				
OCDD	139 (2)	-2137 (2)	78-144	25	25				
2378-TCDF	120	109	75-158	8	25				
12378-PeCDF	106	102	80-134	3	25				
23478-PeCDF	106	103	68-160	3	25				
123478-HxCDF	104	100	72-134	4	25				
123678-HxCDF	104	101	84-130	3	25				
123789-HxCDF	102	104	78-130	1	25				
234678-HxCDF	105	97	70-156	6	25				
1234678-HpCDF	88	23*	82-122	16	25				
1234789-HpCDF	103	92	78-138	7	25				
OCDF	80 (2)	16 (2)	63-170	14	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11011001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6168996	71	87	76	81	77	85
6168997	75	91	76	81	77	84
6168998	77	92	76	83	79	79
6168999	77	89	76	83	79	85
6169000	75	91	76	81	79	83
6169001	73	96	74	81	77	80
6169002	79	90	77	82	78	87
6169003	92	104	89	93	89	98
6169004	75	84	75	79	75	80
6169005	71	84	74	80	74	76
6169006	71	87	74	80	74	78
6169007	65	78	69	72	68	70
6169008	70	79	73	76	73	78
6169009	72	79	70	73	71	74
6169010	78	87	77	79	77	82
6169011	71	77	74	77	74	78
6169012	72	76	63	66	66	68
6169013	69	80	70	75	68	73
6169014	69	81	66	71	66	69
6169015	67	85	68	73	68	66
Blank	80	106	80	86	83	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226238
Reported: 02/21/11 at 05:22 PM

Surrogate Quality Control

MS	72	79	70	73	71	74
MSD	78	87	77	79	77	82
OPR	77	86	77	87	80	86
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6168996	89	83	86	86	89	79
6168997	92	87	90	86	93	80
6168998	95	82	83	90	95	80
6168999	94	82	82	88	93	80
6169000	91	82	80	90	95	79
6169001	93	83	84	85	100	80
6169002	87	80	80	92	92	80
6169003	100	95	97	107	105	93
6169004	85	83	85	89	87	77
6169005	90	78	79	90	88	78
6169006	91	78	78	88	93	78
6169007	84	70	70	85	82	74
6169008	84	76	76	86	84	76
6169009	82	73	75	85	82	73
6169010	86	81	80	92	91	81
6169011	84	75	71	87	81	77
6169012	74	65	60	82	81	72
6169013	79	71	68	89	86	77
6169014	75	67	64	83	86	74
6169015	81	71	68	86	91	76
Blank	98	84	82	100	110	85
MS	82	73	75	85	82	73
MSD	86	81	80	92	91	81
OPR	101	81	80	90	91	87
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6168996	79	79	87	95	69	88
6168997	79	80	90	100	73	92
6168998	81	82	87	91	74	93
6168999	80	81	89	93	74	93
6169000	80	80	86	87	73	93
6169001	78	80	88	93	68	98
6169002	81	80	86	90	76	93
6169003	92	93	102	108	90	107
6169004	77	77	86	91	76	87
6169005	77	78	84	88	72	88
6169006	79	79	85	88	71	90
6169007	72	72	78	80	65	80
6169008	75	75	83	84	70	81
6169009	74	74	81	83	70	83
6169010	79	81	88	89	76	90
6169011	78	79	83	79	71	79
6169012	72	75	76	72	66	79
6169013	77	76	80	77	69	82
6169014	73	73	78	79	67	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226238
Reported: 02/21/11 at 05:22 PM

Surrogate Quality Control

6169015	75	76	81	82	64	85
Blank	86	86	91	90	74	105
MS	74	74	81	83	70	83
MSD	79	81	88	89	76	90
OPR	85	86	92	91	71	91
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6168996	
6168997	
6168998	
6168999	79
6169000	
6169001	
6169002	81
6169003	90
6169004	76
6169005	75
6169006	
6169007	67
6169008	71
6169009	
6169010	
6169011	
6169012	
6169013	
6169014	68
6169015	
Blank	80
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1226238 sample# 6168996-9015

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	PetroMarkers Confirmation by EPA 8250	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP08-SA5B-QC-121710	12.17.10	1407	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									surface soil DUP
EB05-SA5B-121710	12.17.10	1235	water	none	6-1 liter ambers			X						X	X			X	X									surface tool rinsate
EB05-SA5B-121710	12.17.10	1235	water	none	1-500 ml poly							X	X			X												surface tool rinsate
EB05-SA5B-121710	12.17.10	1235	water	HNO3	1-500 ml poly						X																	surface tool rinsate
EB01-SIV-121710	12.17.10	1235	water	none	6-1 liter ambers			X						X	X			X	X									sediment tool rinsate
EB01-SIV-121710	12.17.10	1235	water	none	1-500 ml poly							X	X			X												sediment tool rinsate
EB01-SIV-121710	12.17.10	1235	water	HNO3	1-500 ml poly						X																	sediment tool rinsate
SED-014-SIV-SD-0.0-0.5	12.17.10	0844	soil	none	1 x 16 oz. jars & 1 6" sleeves			X			X	X	X	X	X	X		X	X									
SED-012-SIV-SD-0.0-0.5	12.17.10	1024	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-006-SIV-SD-0.0-0.5	12.17.10	1525	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-001-SIV-SD-0.0-0.5	12.17.10	1241	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-004-SIV-SD-0.0-0.5	12.17.10	1142	soil	none	1 x 16 oz. jars & 1 6" sleeves			X			X	X	X	X	X	X		X	X									
SL-282-SA5B-SB-4.0-5.0	12.17.10	1020	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-282-SA5B-SB-4.5	12.17.10	1015	soil	none	5 Encore Samplers	X	X		X																			
SL-282-SA5B-SB-7.5	12.17.10	1024	soil	none	5 Encore Samplers	X	X		X																			
SL-282-SA5B-SB-7.0-8.0	12.17.10	1028	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-4.0-5.0	12.17.10	1230	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-4.5	12.17.10	1225	soil	none	5 Encore Samplers	X	X		X																			
SL-281-SA5B-SB-8.0-9.0	12.17.10	1237	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-8.5	12.17.10	1233	soil	none	5 Encore Samplers	X	X		X																			
SL-026-SA5B-4.0-5.0	12.17.10	1508	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-026-SA5B-4.5	12.17.10	1503	soil	none	5 Encore Samplers	X	X		X																			
SL-026-SA5B-9.0-10	12.17.10	1519	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-026-SA5B-9.5	12.17.10	1513	soil	none	5 Encore Samplers	X	X		X																			
SL-207-SA5B-SS-0.0-0.5	12.17.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-208-SA5B-SS-0.0-0.5	12.17.10	1053	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-276-SA5B-SS-0.0-0.5	12.17.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-210-SA5B-SS-0.0-0.5	12.17.10	1128	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-275-SA5B-SS-0.0-0.5	12.17.10	0945	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-206-SA5B-SS-0.0-0.5	12.17.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-209-SA5B-SS-0.0-0.5	12.17.10	1142	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-161-SA5B-SS-0.0-0.5	12.17.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-162-SA5B-SS-0.0-0.5	12.17.10	0942	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-274-SA5B-SS-0.0-0.5	12.17.10	1128	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-166-SA5B-SS-0.0-0.5	12.17.10	1108	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-160-SA5B-SS-0.0-0.5	12.17.10	1122	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-211-SA5B-SS-0.0-0.5MS	12.17.10	1402	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X									surface soil MS/MSD
SL-278-SA5B-SS-0.0-0.5	12.17.10	1411	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-279-SA5B-SS-0.0-0.5	12.17.10	1428	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-277-SA5B-SS-0.0-0.5	12.17.10	1355	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-273-SA5B-SS-0.0-0.5	12.17.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-272-SA5B-SS-0.0-0.5	12.17.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
TB-121710	12.17.10	0800	water	HCl	4-40 mL clear VOA vials	X	X		X																			trip blank

Relinquished by: (Signature) Date/Time 12.17.10 1700

Received by: (Signature) Date/Time

Received for Laboratory by: (Signature) Date/Time 12/18/10 1240

Airbill No. 00732992

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/18/2010
Group Number: 1226239
SDG: DE045
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP08-SA5B-QC-121710 Soil	6169016
EB05-SA5B-121710 Water	6169017
EB01-SIV-121710 Water	6169018
SED-014-SIV-SD-0.0-0.5 Sediment	6169019
SED-012-SIV-SD-0.0-0.5 Sediment	6169020
SED-006-SIV-SD-0.0-0.5 Sediment	6169021
SED-001-SIV-SD-0.0-0.5 Sediment	6169022
SED-004-SIV-SD-0.0-0.5 Sediment	6169023
SL-282-SA5B-SB-4.0-5.0 Soil	6169024
SL-282-SA5B-SB-7.0-8.0 Soil	6169025
SL-281-SA5B-SB-4.0-5.0 Soil	6169026
SL-281-SA5B-SB-8.0-9.0 Soil	6169027
SL-026-SA5B-SB-4.0-5.0 Soil	6169028
SL-026-SA5B-SB-9.0-10 Soil	6169029
TB-121710 Water	6169030

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP08-SA5B-QC-121710 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169016
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE045-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP08-SA5B-QC-121710 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169016
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE045-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.82	J	0.37	1.9		1
10138	Anthracene	120-12-7	2.7		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	5.8		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	7.4		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	27		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	18		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.6	J	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	11		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.7	20		1
10138	Fluoranthene	206-44-0	13		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.3		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.94	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	2.2		0.75	1.9		1
10138	Naphthalene	91-20-3	2.1		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	6.2		0.75	1.9		1
10138	Pyrene	129-00-0	14		0.75	1.9		1

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP08-SA5B-QC-121710 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169016
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE045-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.37	U	0.37	0.93		5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.93		5
01363	Beta BHC	319-85-7	0.34	U	0.34	0.93		5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.93		5
01363	Chlordane	57-74-9	4.5	U	4.5	19		5
01363	p,p-DDD	72-54-8	3.3	U	3.3	3.3		5
01363	p,p-DDE	72-55-9	0.37	U	0.37	1.9		5
01363	p,p-DDT	50-29-3	4.5	U	4.5	4.5		5
01363	Delta BHC	319-86-8	0.20	U	0.20	0.93		5
01363	Dieldrin	60-57-1	2.1		0.37	1.9		5
01363	Endosulfan I	959-98-8	0.25	U	0.25	0.93		5
01363	Endosulfan II	33213-65-9	1.6	U	1.6	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.37	U	0.37	1.9		5
01363	Endrin	72-20-8	0.37	U	0.37	1.9		5
01363	Endrin Aldehyde	7421-93-4	0.61	U	0.61	1.9		5
01363	Endrin Ketone	53494-70-5	0.37	U	0.37	1.9		5
01363	Heptachlor	76-44-8	0.34	U	0.34	0.93		5
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.93		5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.3		5
01363	Mirex	2385-85-5	0.37	U	0.37	1.9		5
01363	Toxaphene	8001-35-2	12	U	12	37		5

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	11		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	34		0.37	1.9		1
10225	PCB-1260	11096-82-5	13		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,100		5.37	21.4		1
07914	Boron	7440-42-8	7.84		0.950	5.34		1
01650	Calcium	7440-70-2	6,300		6.54	21.4		1
01654	Iron	7439-89-6	27,300		5.03	21.4		1
01656	Lithium	7439-93-2	38.4		0.23	2.1		1
01657	Magnesium	7439-95-4	5,940		2.71	10.7		1
06958	Manganese	7439-96-5	344		0.0833	0.534		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP08-SA5B-QC-121710 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169016
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE045-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	536		0.598	10.7		1
01662	Potassium	7440-09-7	4,320		19.2	53.4		1
01667	Sodium	7440-23-5	120		39.8	107		1
07968	Strontium	7440-24-6	39.9		0.0662	0.534		1
06969	Tin	7440-31-5	3.08	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,320		0.406	1.07		1
10146	Zirconium	7440-67-7	4.80	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.8		0.0659	0.440		2
06126	Barium	7440-39-3	156		0.119	0.440		2
06127	Beryllium	7440-41-7	0.958		0.0176	0.110		2
06128	Cadmium	7440-43-9	1.70		0.0396	0.110		2
06131	Chromium	7440-47-3	47.2		0.132	0.440		2
06132	Cobalt	7440-48-4	8.63		0.0220	0.110		2
06133	Copper	7440-50-8	39.6		0.0725	0.440		2
06135	Lead	7439-92-1	21.6		0.0114	0.220		2
06138	Molybdenum	7439-98-7	1.31		0.0550	0.110		2
06139	Nickel	7440-02-0	23.4		0.110	0.440		2
06141	Selenium	7782-49-2	0.266	J	0.0440	0.440		2
06142	Silver	7440-22-4	34.3		0.0132	0.110		2
06145	Thallium	7440-28-0	0.403		0.0330	0.110		2
06148	Vanadium	7440-62-2	59.1		0.0242	0.110		2
06149	Zinc	7440-66-6	151		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0498	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	480		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP08-SA5B-QC-121710 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169016
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE045-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.03	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011 12:03	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011 00:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620013A	01/01/2011 04:23	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011 02:21	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 02:18	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620013A	12/29/2010 00:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP08-SA5B-QC-121710 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169016
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE045-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 17:45	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 18:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 17:29	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 12:30	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB05-SA5B-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5B-121710

LLI Sample # WW 6169017
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE045-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB05-SA5B-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5B-121710

LLI Sample # WW 6169017
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE045-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,3-dichlorobenzene
1,4-dichlorobenzene

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.50	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.11	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.33	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.029	J	0.010	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.051	U	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1

The recoveries of several compounds were outside of QC limits in the LCS/LCSD.
The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .16 ug/l
bis(2-ethylhexyl)phthalate .19 ug/l
These blank values were not subtracted from the analytical results.
Sufficient sample was unavailable to repeat the analysis.

Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.17	U	0.17	0.52		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.084	U	0.084	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52		1

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Sample Description: **EB05-SA5B-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5B-121710

LLI Sample # WW 6169017
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE045-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	52	U	52	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.052		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.52		1
00177	p,p-DDD	72-54-8	0.0052	U	0.0052	0.021		1
00177	p,p-DDE	72-55-9	0.0052	U	0.0052	0.021		1
00177	p,p-DDT	50-29-3	0.0052	U	0.0052	0.021		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0055	U	0.0055	0.021		1
00177	Endosulfan I	959-98-8	0.0045	U	0.0045	0.010		1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0060	U	0.0060	0.021		1
00177	Endrin	72-20-8	0.0084	U	0.0084	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0052	U	0.0052	0.021		1
00177	Heptachlor	76-44-8	0.0027	U	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031	U	0.031	0.10		1
00177	Mirex	2385-85-5	0.088	U	0.088	0.26		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB05-SA5B-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5B-121710

LLI Sample # WW 6169017
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE045-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038	U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB05-SA5B-121710 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5B-121710

LLI Sample # WW 6169017
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE045-02EB

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10354WAM026	01/17/2011 09:23	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354WAI026	01/05/2011 15:21	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10354WAM026	12/21/2010 08:30	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10354WAI026	12/21/2010 01:00	Sherry L Morrow	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103560021A	12/23/2010 17:34	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	12/23/2010 17:42	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	01/05/2011 19:39	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103550012A	12/31/2010 11:34	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103550012A	12/21/2010 18:10	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103550011A	12/21/2010 18:10	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103560021A	12/22/2010 20:30	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 17:17	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 17:17	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:27	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:33	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:33	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:33	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB05-SA5B-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5B-121710

LLI Sample # WW 6169017
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE045-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:33	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10355196901A	12/18/2010 16:46	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10363658701A	12/29/2010 12:29	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10352196301A	12/18/2010 14:00	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SIV-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SIV-121710

LLI Sample # WW 6169018
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4503 SDG#: DE045-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

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SSFL Area IV Collocated Soil Sampling
EB01-SIV-121710

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LLI Group # 1226239
Account # 13013

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E4503 SDG#: DE045-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,3-dichlorobenzene
1,4-dichlorobenzene

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.23	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.054	J	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.29	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.051	J	0.010	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.052	U	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1

The recoveries of several compounds were outside of QC limits in the LCS/LCSD.
The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .16 ug/l
bis(2-ethylhexyl)phthalate .19 ug/l
These blank values were not subtracted from the analytical results.
Sufficient sample was unavailable to repeat the analysis.

Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.17	U	0.17	0.52		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.083	U	0.083	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52		1

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LLI Sample # WW 6169018
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Project Name: SSFL Area IV Collocated Soil Sampling

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E4503 SDG#: DE045-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	52	U	52	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.052		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.51		1
00177	p,p-DDD	72-54-8	0.0051	U	0.0051	0.021		1
00177	p,p-DDE	72-55-9	0.0051	U	0.0051	0.021		1
00177	p,p-DDT	50-29-3	0.0051	U	0.0051	0.021		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0054	U	0.0054	0.021		1
00177	Endosulfan I	959-98-8	0.0044	U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0059	U	0.0059	0.021		1
00177	Endrin	72-20-8	0.0083	U	0.0083	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0051	U	0.0051	0.021		1
00177	Heptachlor	76-44-8	0.0027	U	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031	U	0.031	0.10		1
00177	Mirex	2385-85-5	0.087	U	0.087	0.26		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.51		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1

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SSFL Area IV Collocated Soil Sampling
EB01-SIV-121710

LLI Sample # WW 6169018
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Account # 13013

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E4503 SDG#: DE045-03EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

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Lancaster Laboratories

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SSFL Area IV Collocated Soil Sampling
EB01-SIV-121710

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E4503 SDG#: DE045-03EB

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10354WAM026	01/17/2011 09:48	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354WAI026	01/05/2011 15:53	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10354WAM026	12/21/2010 08:30	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10354WAI026	12/21/2010 01:00	Sherry L Morrow	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103560021A	12/23/2010 18:01	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	12/23/2010 17:53	Lisa A Reinert	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103550011A	01/05/2011 19:51	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103550012A	12/31/2010 11:52	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103550012A	12/21/2010 18:10	JoElla L Rice	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103550011A	12/21/2010 18:10	JoElla L Rice	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103560021A	12/22/2010 20:30	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 17:21	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 17:21	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:31	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:36	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:36	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:36	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB01-SIV-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SIV-121710

LLI Sample # WW 6169018
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4503 SDG#: DE045-03EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:36	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10355196901A	12/21/2010 09:10	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10363658701A	12/29/2010 12:53	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10352196301A	12/18/2010 14:13	Ashley M Adams	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-014-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169019
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE045-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-014-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169019
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE045-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.0		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	11	J	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	1.9	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	7.1	21		1
10138	Fluoranthene	206-44-0	2.7		0.78	2.0		1
10138	Fluorene	86-73-7	1.9	J	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.98	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.4	J	0.78	2.0		1
10138	Pyrene	129-00-0	2.2		0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	7.5	U	7.5	7.5		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	580	U	580	580		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-014-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169019
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE045-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.48	U	0.48	0.48		1
01363	p,p-DDE	72-55-9	0.73	U	0.73	0.73		1
01363	p,p-DDT	50-29-3	0.92	U	0.92	0.92		1
01363	Delta BHC	319-86-8	0.11	J	0.042	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.18	U	0.18	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.24	U	0.24	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	4.8		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	4.4		0.39	2.0		1
10225	PCB-1260	11096-82-5	1.9	J	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		5.86	23.3		1
07914	Boron	7440-42-8	8.15		1.04	5.82		1
01650	Calcium	7440-70-2	6,160		7.14	23.3		1
01654	Iron	7439-89-6	18,700		5.49	23.3		1
01656	Lithium	7439-93-2	21.1		0.26	2.3		1
01657	Magnesium	7439-95-4	5,030		2.96	11.6		1
06958	Manganese	7439-96-5	274		0.0909	0.582		1
10145	Phosphorus	7723-14-0	441		0.652	11.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-014-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169019
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE045-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,040		21.0	58.2		1
01667	Sodium	7440-23-5	101	J	43.4	116		1
07968	Strontium	7440-24-6	26.6		0.0722	0.582		1
06969	Tin	7440-31-5	2.99	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,070		0.443	1.16		1
10146	Zirconium	7440-67-7	2.40	J	0.978	5.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.93		0.0692	0.461		2
06126	Barium	7440-39-3	117		0.125	0.461		2
06127	Beryllium	7440-41-7	0.591		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.279		0.0415	0.115		2
06131	Chromium	7440-47-3	22.9		0.138	0.461		2
06132	Cobalt	7440-48-4	8.83		0.0231	0.115		2
06133	Copper	7440-50-8	10.8		0.0761	0.461		2
06135	Lead	7439-92-1	12.2		0.0120	0.231		2
06138	Molybdenum	7439-98-7	1.09		0.0577	0.115		2
06139	Nickel	7440-02-0	14.4		0.115	0.461		2
06141	Selenium	7782-49-2	0.239	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0350	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.307		0.0346	0.115		2
06148	Vanadium	7440-62-2	47.2		0.0254	0.115		2
06149	Zinc	7440-66-6	84.4		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0209	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	515		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-014-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169019
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE045-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.56	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	12:38	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	01:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010	06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010	08:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620013A	01/01/2011	05:46	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011	02:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011	02:37	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010	07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010	06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620013A	12/29/2010	00:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010	17:55	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-014-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169019
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE045-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 17:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 17:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 17:55	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 17:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 15:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 12:46	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-012-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169020
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE045-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SED-012-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169020
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE045-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.95	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.89	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	12	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.5	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.4	19		1
10138	Fluoranthene	206-44-0	2.0		0.71	1.8		1
10138	Fluorene	86-73-7	11		0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.3	J	0.71	1.8		1
10138	Pyrene	129-00-0	1.8		0.71	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	6.9	U	6.9	6.9		1
10401	Dicamba	1918-00-9	0.77	J	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	81	U	81	270		1
10401	MCPP (Mecoprop)	93-65-2	240	J	80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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Sample Description: **SED-012-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169020
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE045-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.35	J	0.070	0.36		1
01363	p,p-DDE	72-55-9	1.0		0.070	0.36		1
01363	p,p-DDT	50-29-3	1.4		0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.12	J	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.40		0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.47	U	0.47	1.8		1
10225	PCB-1260	11096-82-5	1.1	U	1.1	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,920		5.34	21.2		1
07914	Boron	7440-42-8	6.39		0.945	5.31		1
01650	Calcium	7440-70-2	3,220		6.51	21.2		1
01654	Iron	7439-89-6	14,400		5.00	21.2		1
01656	Lithium	7439-93-2	17.6		0.23	2.1		1
01657	Magnesium	7439-95-4	3,640		2.70	10.6		1
06958	Manganese	7439-96-5	209		0.0828	0.531		1
10145	Phosphorus	7723-14-0	327		0.594	10.6		1
01662	Potassium	7440-09-7	2,450		19.1	53.1		1
01667	Sodium	7440-23-5	78.1	J	39.6	106		1
07968	Strontium	7440-24-6	10.3		0.0658	0.531		1

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Sample Description: **SED-012-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169020
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE045-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.05	J	1.06	10.6		1
06970	Titanium	7440-32-6	786		0.403	1.06		1
10146	Zirconium	7440-67-7	1.57	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0607	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.73		0.0607	0.404		2
06126	Barium	7440-39-3	65.3		0.109	0.404		2
06127	Beryllium	7440-41-7	0.405		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.157		0.0364	0.101		2
06131	Chromium	7440-47-3	15.3		0.121	0.404		2
06132	Cobalt	7440-48-4	4.48		0.0202	0.101		2
06133	Copper	7440-50-8	7.46		0.0667	0.404		2
06135	Lead	7439-92-1	9.90		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.478		0.0506	0.101		2
06139	Nickel	7440-02-0	9.76		0.101	0.404		2
06141	Selenium	7782-49-2	0.172	J	0.0404	0.404		2
06142	Silver	7440-22-4	0.0246	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.216		0.0303	0.101		2
06148	Vanadium	7440-62-2	32.1		0.0222	0.101		2
06149	Zinc	7440-66-6	64.1		0.566	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	477		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.64		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **SED-012-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169020
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE045-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	13:13	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	01:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010	06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010	08:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620013A	01/01/2011	07:08	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011	02:49	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011	02:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010	07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010	06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620013A	12/29/2010	00:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010	17:59	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011	10:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011	10:31	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-012-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169020
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE045-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 18:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 17:52	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 13:18	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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Analysis Report

Sample Description: SED-006-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169021
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE045-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	620		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	620		1
04688	Benzyl alcohol	100-51-6	210	U	210	620		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	83	U	83	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620		1
04688	2,4-Dinitrophenol	51-28-5	830	U	830	2,500		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	83	U	83	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	620		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	620		1
04688	Phenol	108-95-2	21	U	21	210		1

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Sample Description: **SED-006-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169021
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE045-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.83	U	0.83	2.1		1
10138	Acenaphthylene	208-96-8	0.55	J	0.42	2.1		1
10138	Anthracene	120-12-7	0.83	J	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.83	2.1		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.83	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	5.4		0.83	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.83	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.83	2.1		1
10138	Butylbenzylphthalate	85-68-7	13	J	7.5	22		1
10138	Di-n-butylphthalate	84-74-2	7.5	U	7.5	22		1
10138	Chrysene	218-01-9	6.9		0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.83	U	0.83	2.1		1
10138	Diethylphthalate	84-66-2	7.5	U	7.5	22		1
10138	Dimethylphthalate	131-11-3	7.5	U	7.5	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	54		7.5	22		1
10138	Fluoranthene	206-44-0	16		0.83	2.1		1
10138	Fluorene	86-73-7	0.83	U	0.83	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.83	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.83	U	0.83	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.83	U	0.83	2.1		1
10138	Naphthalene	91-20-3	0.83	U	0.83	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.83	U	0.83	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.5	U	7.5	22		1
10138	Phenanthrene	85-01-8	14		0.83	2.1		1
10138	Pyrene	129-00-0	11		0.83	2.1		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5		1
10401	Dalapon	75-99-0	5.5	U	5.5	11		1
10401	2,4-DB	94-82-6	0.77	U	0.77	2.1		1
10401	Dicamba	1918-00-9	0.78	J	0.50	1.5		1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.0	J	1.0	2.1		1
10401	MCPA	94-74-6	390		95	310		1
10401	MCPP (Mecoprop)	93-65-2	360		94	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.094	U	0.094	0.21		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21		1
01363	Alpha BHC	319-84-6	0.080	U	0.080	0.21		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SED-006-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169021
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE045-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.075	U	0.075	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.21		1
01363	Chlordane	57-74-9	4.1	U	4.1	4.2		1
01363	p,p-DDD	72-54-8	1.3	U	1.3	1.3		1
01363	p,p-DDE	72-55-9	1.0	U	1.0	1.0		1
01363	p,p-DDT	50-29-3	1.2	U	1.2	1.2		1
01363	Delta BHC	319-86-8	0.14	J	0.045	0.21		1
01363	Dieldrin	60-57-1	0.50	U	0.50	0.50		1
01363	Endosulfan I	959-98-8	0.43	U	0.43	0.43		1
01363	Endosulfan II	33213-65-9	0.31	U	0.31	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.11	U	0.11	0.42		1
01363	Endrin	72-20-8	0.082	U	0.082	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.082	U	0.082	0.42		1
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	0.42		1
01363	Heptachlor	76-44-8	0.075	U	0.075	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.072	U	0.072	0.21		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1		1
01363	Mirex	2385-85-5	0.082	U	0.082	0.42		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.2		1

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	7.6		1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.62	U	0.62	2.1		1
10225	PCB-1232	11141-16-5	0.65	U	0.65	2.1		1
10225	PCB-1242	53469-21-9	0.62	U	0.62	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	4.8		0.41	2.1		1
10225	PCB-1260	11096-82-5	4.9		0.41	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,200		6.04	24.0		1
07914	Boron	7440-42-8	11.3		1.07	6.00		1
01650	Calcium	7440-70-2	4,880		7.36	24.0		1
01654	Iron	7439-89-6	30,300		5.65	24.0		1
01656	Lithium	7439-93-2	26.5		0.26	2.4		1
01657	Magnesium	7439-95-4	6,430		3.05	12.0		1
06958	Manganese	7439-96-5	454		0.0936	0.600		1
10145	Phosphorus	7723-14-0	526		0.672	12.0		1
01662	Potassium	7440-09-7	5,400		21.6	60.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-006-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169021
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE045-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	113	J	44.8	120		1
07968	Strontium	7440-24-6	32.8		0.0744	0.600		1
06969	Tin	7440-31-5	2.79	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,460		0.456	1.20		1
10146	Zirconium	7440-67-7	6.11		1.01	6.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0734	0.245		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.45		0.0734	0.490		2
06126	Barium	7440-39-3	184		0.132	0.490		2
06127	Beryllium	7440-41-7	0.991		0.0196	0.122		2
06128	Cadmium	7440-43-9	0.752		0.0441	0.122		2
06131	Chromium	7440-47-3	38.0		0.147	0.490		2
06132	Cobalt	7440-48-4	10.3		0.0245	0.122		2
06133	Copper	7440-50-8	17.7		0.0808	0.490		2
06135	Lead	7439-92-1	31.1		0.0127	0.245		2
06138	Molybdenum	7439-98-7	0.893		0.0612	0.122		2
06139	Nickel	7440-02-0	21.8		0.122	0.490		2
06141	Selenium	7782-49-2	0.193	J	0.0490	0.490		2
06142	Silver	7440-22-4	0.0845	J	0.0147	0.122		2
06145	Thallium	7440-28-0	0.449		0.0367	0.122		2
06148	Vanadium	7440-62-2	68.9		0.0269	0.122		2
06149	Zinc	7440-66-6	186		0.685	3.67		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0233	J	0.0034	0.120		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	U	1.0	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.2	U	11.2	37.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.25	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	599		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.29		0.0100	0.0100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-006-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169021
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE045-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	19.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011 13:49	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011 02:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620013A	01/01/2011 07:36	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011 03:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 03:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620013A	12/29/2010 00:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 18:02	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2

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Sample Description: **SED-006-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169021
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE045-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 18:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 18:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 13:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-001-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169022
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE045-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-001-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169022
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE045-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.63	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.96	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.1	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	5.8		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41		6.8	20		1
10138	Fluoranthene	206-44-0	4.1		0.76	1.9		1
10138	Fluorene	86-73-7	3.0		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.8	J	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	2.1		0.76	1.9		1
10138	Naphthalene	91-20-3	3.8		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	6.8		0.76	1.9		1
10138	Pyrene	129-00-0	2.8		0.76	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	1.7	U	1.7	1.9		1
10401	Dicamba	1918-00-9	1.9		0.46	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	490	U	490	490		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-001-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169022
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE045-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.38	U	0.38	1.9		5
01363	p,p-DDE	72-55-9	2.6	U	2.6	2.6		1
01363	p,p-DDT	50-29-3	7.8		0.38	1.9		5
01363	Delta BHC	319-86-8	0.074	J	0.041	0.19		1
01363	Dieldrin	60-57-1	0.47	U	0.47	0.47		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	2.1	U	2.1	2.1		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.89	U	0.89	0.89		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.45	U	0.45	0.45		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5		2
10225	Aroclor 5460	11126-42-4	8.2		2.3	7.5		2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.9		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.9		2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.9		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.9		2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.9		2
10225	PCB-1254	11097-69-1	43		0.75	3.9		2
10225	PCB-1260	11096-82-5	18		0.75	3.9		2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.9		2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.9		2
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.61	22.3		1
07914	Boron	7440-42-8	8.79		0.993	5.58		1
01650	Calcium	7440-70-2	5,250		6.84	22.3		1
01654	Iron	7439-89-6	20,400		5.25	22.3		1
01656	Lithium	7439-93-2	23.8		0.25	2.2		1
01657	Magnesium	7439-95-4	4,420		2.83	11.2		1
06958	Manganese	7439-96-5	440		0.0870	0.558		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-001-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169022
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE045-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	423		0.625	11.2		1
01662	Potassium	7440-09-7	4,070		20.1	55.8		1
01667	Sodium	7440-23-5	110	J	41.6	112		1
07968	Strontium	7440-24-6	27.2		0.0692	0.558		1
06969	Tin	7440-31-5	2.27	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,160		0.424	1.12		1
10146	Zirconium	7440-67-7	4.21	J	0.937	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.32		0.0663	0.442		2
06126	Barium	7440-39-3	138		0.119	0.442		2
06127	Beryllium	7440-41-7	0.730		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.457		0.0398	0.110		2
06131	Chromium	7440-47-3	26.7		0.133	0.442		2
06132	Cobalt	7440-48-4	7.38		0.0221	0.110		2
06133	Copper	7440-50-8	13.2		0.0729	0.442		2
06135	Lead	7439-92-1	15.3		0.0115	0.221		2
06138	Molybdenum	7439-98-7	1.05		0.0552	0.110		2
06139	Nickel	7440-02-0	16.0		0.110	0.442		2
06141	Selenium	7782-49-2	0.230	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0983	J	0.0133	0.110		2
06145	Thallium	7440-28-0	0.335		0.0331	0.110		2
06148	Vanadium	7440-62-2	48.4		0.0243	0.110		2
06149	Zinc	7440-66-6	88.8		0.619	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.927		0.0080	0.280		2.5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	509		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-001-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169022
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE045-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.16	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011 14:24	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011 02:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620013A	01/01/2011 08:03	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011 03:17	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/14/2011 21:30	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 03:33	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010 07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620013A	12/29/2010 00:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-001-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169022
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE045-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 18:05	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 18:17	Nelli S Markaryan	2.5
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 18:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 18:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243202A	01/20/2011 13:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-004-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169023
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE045-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	620		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	210	U	210	620		1
04688	Benzyl alcohol	100-51-6	210	U	210	620		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210		1
04688	4-Chloroaniline	106-47-8	83	U	83	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620		1
04688	2,4-Dinitrophenol	51-28-5	830	U	830	2,500		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	41	U	41	210		1
04688	4-Methylphenol	106-44-5	41	U	41	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	41	U	41	210		1
04688	4-Nitroaniline	100-01-6	83	U	83	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	620		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	620		1
04688	Phenol	108-95-2	21	U	21	210		1

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Sample Description: SED-004-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169023
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE045-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.83	U	0.83	2.1		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.1		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.1		1
10138	Benzo(a)anthracene	56-55-3	0.83	U	0.83	2.1		1
10138	Benzo(a)pyrene	50-32-8	0.83	U	0.83	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	0.83	U	0.83	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.83	U	0.83	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.83	U	0.83	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	0.41	U	0.41	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.83	U	0.83	2.1		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.2	J	7.4	22		1
10138	Fluoranthene	206-44-0	0.83	U	0.83	2.1		1
10138	Fluorene	86-73-7	0.83	U	0.83	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	U	0.83	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.83	U	0.83	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.83	U	0.83	2.1		1
10138	Naphthalene	91-20-3	0.83	U	0.83	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.83	U	0.83	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	0.83	U	0.83	2.1		1
10138	Pyrene	129-00-0	0.83	U	0.83	2.1		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5		1
10401	Dalapon	75-99-0	5.4	U	5.4	11		1
10401	2,4-DB	94-82-6	0.77	U	0.77	2.1		1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.5		1
10401	Dinoseb	88-85-7	0.99	U	0.99	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.99	U	0.99	2.1		1
10401	MCPA	94-74-6	94	U	94	310		1
10401	MCPP (Mecoprop)	93-65-2	93	U	93	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.093	U	0.093	0.21		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.21		1

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Sample Description: **SED-004-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169023
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE045-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.074	U	0.074	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.21		1
01363	Chlordane	57-74-9	0.99	U	0.99	4.2		1
01363	p,p-DDD	72-54-8	0.082	U	0.082	0.42		1
01363	p,p-DDE	72-55-9	0.082	U	0.082	0.42		1
01363	p,p-DDT	50-29-3	0.082	U	0.082	0.42		1
01363	Delta BHC	319-86-8	0.045	U	0.045	0.21		1
01363	Dieldrin	60-57-1	0.082	U	0.082	0.42		1
01363	Endosulfan I	959-98-8	0.054	U	0.054	0.21		1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.082	U	0.082	0.42		1
01363	Endrin	72-20-8	0.082	U	0.082	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.082	U	0.082	0.42		1
01363	Endrin Ketone	53494-70-5	0.082	U	0.082	0.42		1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.21		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1		1
01363	Mirex	2385-85-5	0.082	U	0.082	0.42		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.2		1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.62	U	0.62	2.1		1
10225	PCB-1232	11141-16-5	0.64	U	0.64	2.1		1
10225	PCB-1242	53469-21-9	0.62	U	0.62	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	3.2		0.41	2.1		1
10225	PCB-1260	11096-82-5	2.1		0.41	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		6.23	24.8		1
07914	Boron	7440-42-8	15.7		1.10	6.19		1
01650	Calcium	7440-70-2	31,400		7.59	24.8		1
01654	Iron	7439-89-6	32,800		5.83	24.8		1
01656	Lithium	7439-93-2	34.3		0.27	2.5		1
01657	Magnesium	7439-95-4	9,100		3.14	12.4		1
06958	Manganese	7439-96-5	398		0.0965	0.619		1
10145	Phosphorus	7723-14-0	641		0.693	12.4		1
01662	Potassium	7440-09-7	6,980		22.3	61.9		1
01667	Sodium	7440-23-5	155		46.2	124		1

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Sample Description: **SED-004-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169023
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE045-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	67.1		0.0767	0.619		1
06969	Tin	7440-31-5	2.30	J	1.24	12.4		1
06970	Titanium	7440-32-6	1,550		0.470	1.24		1
10146	Zirconium	7440-67-7	6.96		1.04	6.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0721	0.240		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.81		0.0721	0.481		2
06126	Barium	7440-39-3	147		0.130	0.481		2
06127	Beryllium	7440-41-7	0.797		0.0192	0.120		2
06128	Cadmium	7440-43-9	0.371		0.0433	0.120		2
06131	Chromium	7440-47-3	43.6		0.144	0.481		2
06132	Cobalt	7440-48-4	11.6		0.0240	0.120		2
06133	Copper	7440-50-8	17.8		0.0793	0.481		2
06135	Lead	7439-92-1	12.9		0.0125	0.240		2
06138	Molybdenum	7439-98-7	0.614		0.0601	0.120		2
06139	Nickel	7440-02-0	21.8		0.120	0.481		2
06141	Selenium	7782-49-2	0.517		0.0481	0.481		2
06142	Silver	7440-22-4	0.0368	J	0.0144	0.120		2
06145	Thallium	7440-28-0	0.454		0.0360	0.120		2
06148	Vanadium	7440-62-2	83.9		0.0264	0.120		2
06149	Zinc	7440-66-6	113		0.673	3.60		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0343	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.99	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1	U	11.1	37.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.25	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	471		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.88		0.0100	0.0100		1

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Sample Description: **SED-004-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169023
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4508 SDG#: DE045-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	19.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	14:59	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	03:21	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010	06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010	08:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103620013A	01/01/2011	08:31	Sarah M Snyder	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103610029A	01/08/2011	03:31	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011	03:51	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103610029A	12/28/2010	07:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010	06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103620013A	12/29/2010	00:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010	18:09	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011	10:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011	10:41	Choon Y Tian	2

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Sample Description: **SED-004-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169023
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Project Name: SSFL Area IV Collocated Soil Sampling

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E4508 SDG#: DE045-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 19:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 19:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 14:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-282-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE045-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	99		6.8	8.1		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.93
06192	2-Butanone	78-93-3	20		1.2	8.1		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.93
06192	Methylene Chloride	75-09-2	0.96	J	0.24	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

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Sample Description: SL-282-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE045-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.93
06192	Toluene	108-88-3	0.13	J	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.2	U	18.2	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-282-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE045-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	1.1	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	3.7		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.1		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.6		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	3.6		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	6.6	20		1
10138	Fluoranthene	206-44-0	8.2		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-282-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4509 SDG#: DE045-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	2.7		0.73	1.8		1
10138	Pyrene	129-00-0	8.0		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.95
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1

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Sample Description: SL-282-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

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E4509 SDG#: DE045-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	7,600		660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	55	U	55	180		50
10225	Aroclor 5442	12642-23-8	55	U	55	180		50
10225	Aroclor 5460	11126-42-4	55	U	55	180		50
10225	PCB-1016	12674-11-2	18	U	18	93		50
10225	PCB-1221	11104-28-2	27	U	27	93		50
10225	PCB-1232	11141-16-5	28	U	28	93		50
10225	PCB-1242	53469-21-9	27	U	27	93		50
10225	PCB-1248	12672-29-6	18	U	18	93		50
10225	PCB-1254	11097-69-1	18	U	18	93		50
10225	PCB-1260	11096-82-5	18	U	18	93		50
10225	PCB-1262	37324-23-5	18	U	18	93		50
10225	PCB-1268	11100-14-4	18	U	18	93		50
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	8.1		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	740		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-282-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE045-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.40	21.5		1
07914	Boron	7440-42-8	4.55	J	0.955	5.36		1
01650	Calcium	7440-70-2	2,630		6.58	21.5		1
01654	Iron	7439-89-6	17,200		5.05	21.5		1
01656	Lithium	7439-93-2	21.1		0.24	2.1		1
01657	Magnesium	7439-95-4	3,660		2.72	10.7		1
06958	Manganese	7439-96-5	273		0.0837	0.536		1
10145	Phosphorus	7723-14-0	434		0.601	10.7		1
01662	Potassium	7440-09-7	3,090		19.3	53.6		1
01667	Sodium	7440-23-5	59.8	J	40.0	107		1
07968	Strontium	7440-24-6	19.4		0.0665	0.536		1
06969	Tin	7440-31-5	1.98	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,030		0.408	1.07		1
10146	Zirconium	7440-67-7	2.33	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0644	U	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.87		0.0644	0.429		2
06126	Barium	7440-39-3	110		0.116	0.429		2
06127	Beryllium	7440-41-7	0.562		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.188		0.0386	0.107		2
06131	Chromium	7440-47-3	19.8		0.129	0.429		2
06132	Cobalt	7440-48-4	6.01		0.0215	0.107		2
06133	Copper	7440-50-8	9.66		0.0708	0.429		2
06135	Lead	7439-92-1	5.93		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.664		0.0536	0.107		2
06139	Nickel	7440-02-0	12.7		0.107	0.429		2
06141	Selenium	7782-49-2	0.127	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0388	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.286		0.0322	0.107		2
06148	Vanadium	7440-62-2	38.9		0.0236	0.107		2
06149	Zinc	7440-66-6	80.6		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-282-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE045-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	432		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-282-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	03:33	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010	09:49	Jason M Long	26.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035223369	12/18/2010	17:53	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035223369	12/18/2010	17:33	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/20/2011	15:01	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	15:35	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	03:53	Gregory J Drahovsky	1

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Sample Description: SL-282-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE045-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 21:57	Marie D John	23.95
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010 17:32	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 20:44	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 22:09	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 04:28	Lindsey K Lafferty	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 13:57	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 18:14	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 21:15	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550028A	12/24/2010 16:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550028A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	3	103575708005	12/31/2010 11:01	Eric L Eby	1
07914	Boron	SW-846 6010B	3	103575708005	12/31/2010 11:01	Eric L Eby	1
01650	Calcium	SW-846 6010B	3	103575708005	12/31/2010 11:01	Eric L Eby	1
01654	Iron	SW-846 6010B	3	103575708005	12/31/2010 11:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	3	103575708005	12/31/2010 11:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	3	103575708005	12/31/2010 11:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 18:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 18:12	John P Hook	1
01662	Potassium	SW-846 6010B	3	103575708005	12/31/2010 11:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 18:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 18:12	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 18:12	John P Hook	1
06970	Titanium	SW-846 6010B	3	103575708005	12/31/2010 11:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 18:12	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2

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Sample Description: **SL-282-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169024
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE045-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 19:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010202A	01/11/2011 19:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 19:25	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 14:22	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:46	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-282-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE045-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	47		6.6	7.9		0.91
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.91
06192	2-Butanone	78-93-3	5.8	J	1.2	7.9		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.91
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.91
06192	Methylene Chloride	75-09-2	0.85	J	0.24	4.0		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.91

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Sample Description: SL-282-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE045-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.91
06192	Toluene	108-88-3	0.12	J	0.08	4.0		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		20.49
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.3	U	18.3	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE045-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4510 SDG#: DE045-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	14	J	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.05
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
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E4510 SDG#: DE045-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	8,100		660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.62	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	330	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.30	21.1		1
07914	Boron	7440-42-8	5.08	J	0.937	5.27		1

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SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
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Project Name: SSFL Area IV Collocated Soil Sampling

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E4510 SDG#: DE045-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,150		6.46	21.1		1
01654	Iron	7439-89-6	16,500		4.96	21.1		1
01656	Lithium	7439-93-2	20.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,700		2.68	10.5		1
06958	Manganese	7439-96-5	236		0.0821	0.527		1
10145	Phosphorus	7723-14-0	477		0.590	10.5		1
01662	Potassium	7440-09-7	3,520		19.0	52.7		1
01667	Sodium	7440-23-5	83.3	J	39.3	105		1
07968	Strontium	7440-24-6	17.6		0.0653	0.527		1
06969	Tin	7440-31-5	2.05	J	1.05	10.5		1
06970	Titanium	7440-32-6	980		0.400	1.05		1
10146	Zirconium	7440-67-7	2.99	J	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.22		0.0632	0.421		2
06126	Barium	7440-39-3	116		0.114	0.421		2
06127	Beryllium	7440-41-7	0.599		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.229		0.0379	0.105		2
06131	Chromium	7440-47-3	21.0		0.126	0.421		2
06132	Cobalt	7440-48-4	6.15		0.0211	0.105		2
06133	Copper	7440-50-8	10.4		0.0695	0.421		2
06135	Lead	7439-92-1	5.86		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.748		0.0527	0.105		2
06139	Nickel	7440-02-0	13.3		0.105	0.421		2
06141	Selenium	7782-49-2	0.135	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0361	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.285		0.0316	0.105		2
06148	Vanadium	7440-62-2	39.3		0.0232	0.105		2
06149	Zinc	7440-66-6	65.9		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.22	1.1		1

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Sample Description: SL-282-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE045-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	437		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	8.7		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-282-SA5B-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	03:56	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010	10:09	Jason M Long	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035223369	12/18/2010	17:36	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011	13:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	16:10	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	04:25	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010	10:40	Kelli M Barto	1

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Sample Description: **SL-282-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE045-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 22:33	Marie D John	22.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010 17:36	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 21:27	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 22:19	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 04:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 14:22	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 18:29	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 22:35	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550028A	12/24/2010 19:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550028A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 18:16	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2

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Sample Description: SL-282-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169025
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE045-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 20:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010202A	01/11/2011 20:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 19:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 14:38	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:48	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-281-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169026
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE045-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	16		7.6	9.0		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.95
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.95
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.95
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.95
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.95
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.95
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.95
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.95
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.95
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.95
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.95
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.95
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.95
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.95
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.95
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.6		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.95
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.95
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.95
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.95
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.95
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.95
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.95
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.95
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.95
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.95
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.95
06192	Freon 133a	75-88-7	0.57	U	0.57	5.6		0.95
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.95
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.95
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.95
06192	Methylene Chloride	75-09-2	0.73	J	0.27	4.5		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.95

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Sample Description: SL-281-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169026
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE045-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.95
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.95
06192	Toluene	108-88-3	0.11	J	0.09	4.5		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.95
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.95
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.95
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.95
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.95
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		19.57
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.9	U	19.9	39.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U	800	2,400		1

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Sample Description: SL-281-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169026
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE045-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	8.1	J	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1

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Sample Description: **SL-281-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169026
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE045-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.84	J	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.51
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90	U	90	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	75	U	75	180	10000000	1
10132	Tetryl	479-45-8	91	U	91	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

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E4511 SDG#: DE045-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	11,000		720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.52	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	3.6		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	7.6		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	550	J	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,000		5.95	23.7		1
07914	Boron	7440-42-8	12.3		1.05	5.91		1

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Sample Description: SL-281-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169026
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE045-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	11,100		7.25	23.7		1
01654	Iron	7439-89-6	35,400		11.1	47.3		2
01656	Lithium	7439-93-2	23.6		0.26	2.4		1
01657	Magnesium	7439-95-4	7,620		3.00	11.8		1
06958	Manganese	7439-96-5	533		0.0923	0.591		1
10145	Phosphorus	7723-14-0	307		0.662	11.8		1
01662	Potassium	7440-09-7	4,470		21.3	59.1		1
01667	Sodium	7440-23-5	268		44.1	118		1
07968	Strontium	7440-24-6	35.2		0.0733	0.591		1
06969	Tin	7440-31-5	2.56	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,420		0.450	1.18		1
10146	Zirconium	7440-67-7	7.39		0.994	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.172	J	0.0710	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.29		0.0710	0.473		2
06126	Barium	7440-39-3	160		0.128	0.473		2
06127	Beryllium	7440-41-7	1.03		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.304		0.0426	0.118		2
06131	Chromium	7440-47-3	47.4		0.142	0.473		2
06132	Cobalt	7440-48-4	11.1		0.0237	0.118		2
06133	Copper	7440-50-8	20.1		0.0781	0.473		2
06135	Lead	7439-92-1	13.7		0.0123	0.237		2
06138	Molybdenum	7439-98-7	0.552		0.0591	0.118		2
06139	Nickel	7440-02-0	23.4		0.118	0.473		2
06141	Selenium	7782-49-2	0.197	J	0.0473	0.473		2
06142	Silver	7440-22-4	0.0599	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.395		0.0355	0.118		2
06148	Vanadium	7440-62-2	79.5		0.0260	0.118		2
06149	Zinc	7440-66-6	98.8		0.662	3.55		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0092	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.24	1.2		1

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Sample Description: SL-281-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169026
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E4511 SDG#: DE045-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	375		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.86		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	16.3		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-281-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	04:18	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010	10:29	Jason M Long	19.57
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035223369	12/18/2010	17:40	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011	13:54	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	16:46	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	04:57	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010	10:40	Kelli M Barto	1

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Sample Description: **SL-281-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169026
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE045-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 23:10	Marie D John	21.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010 17:39	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 22:09	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 22:28	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 05:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 14:47	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 18:44	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 20:43	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550028A	12/24/2010 19:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550028A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/31/2010 11:08	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 18:19	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2

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Sample Description: SL-281-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169026
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE045-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 20:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010202A	01/11/2011 20:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 20:11	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243202A	01/20/2011 14:46	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182102B	12/21/2010 15:45	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039402B	12/21/2010 15:45	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-281-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169027
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE045-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	43		7.7	9.3		1.01
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1.01
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.01
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.01
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.01
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.01
06192	2-Butanone	78-93-3	7.4	J	1.4	9.3		1.01
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.01
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.01
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1.01
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.01
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.01
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1.01
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.01
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.01
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.01
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.01
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.01
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.01
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.01
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.01
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.01
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.01
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.01
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.01
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1.01
06192	Methylene Chloride	75-09-2	0.81	J	0.28	4.6		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.01

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Sample Description: SL-281-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169027
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE045-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1.01
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.01
06192	Toluene	108-88-3	0.16	J	0.09	4.6		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.01
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.01
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.01
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1.01
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.7	J	19.0	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1

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Sample Description: SL-281-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169027
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4512 SDG#: DE045-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-281-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169027
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE045-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U	86	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	71	U	71	170	10000000	1
10132	Tetryl	479-45-8	87	U	87	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1

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SL-281-SA5B-SB-8.0-9.0

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14420 Albemarle Point Place
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E4512 SDG#: DE045-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	11,000		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.71	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.8		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.8		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	590		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		5.74	22.8		1
07914	Boron	7440-42-8	5.71	J	1.02	5.71		1

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SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169027
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE045-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,430		7.00	22.8		1
01654	Iron	7439-89-6	21,000		5.38	22.8		1
01656	Lithium	7439-93-2	22.7		0.25	2.3		1
01657	Magnesium	7439-95-4	4,430		2.90	11.4		1
06958	Manganese	7439-96-5	212		0.0890	0.571		1
10145	Phosphorus	7723-14-0	282		0.639	11.4		1
01662	Potassium	7440-09-7	2,440		20.5	57.1		1
01667	Sodium	7440-23-5	184		42.6	114		1
07968	Strontium	7440-24-6	21.5		0.0708	0.571		1
06969	Tin	7440-31-5	2.56	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,190		0.434	1.14		1
10146	Zirconium	7440-67-7	4.12	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0766	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.74		0.0659	0.439		2
06126	Barium	7440-39-3	135		0.119	0.439		2
06127	Beryllium	7440-41-7	0.903		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.116		0.0395	0.110		2
06131	Chromium	7440-47-3	27.0		0.132	0.439		2
06132	Cobalt	7440-48-4	7.60		0.0220	0.110		2
06133	Copper	7440-50-8	9.54		0.0724	0.439		2
06135	Lead	7439-92-1	8.13		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.819		0.0549	0.110		2
06139	Nickel	7440-02-0	15.4		0.110	0.439		2
06141	Selenium	7782-49-2	0.171	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0637	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.333		0.0329	0.110		2
06148	Vanadium	7440-62-2	51.8		0.0241	0.110		2
06149	Zinc	7440-66-6	59.8		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.23	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169027
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E4512 SDG#: DE045-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	280		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.67		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	12.4		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-281-SA5B-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	04:41	Laura M Krieger	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010	10:49	Jason M Long	20.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035223369	12/18/2010	17:43	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011	14:11	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	20:46	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	13:30	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010	10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010	06:15	Kerrie A Freeburn	1

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E4512 SDG#: DE045-12

Laboratory Sample Analysis Record

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00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/20/2010 23:46	Marie D John	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010 17:43	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 22:51	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 22:38	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 05:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 15:12	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 18:58	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 22:51	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550028A	12/24/2010 20:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550028A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 18:23	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-281-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169027
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE045-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202A	01/11/2011 20:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010202A	01/11/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203A	01/11/2011 20:34	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11016243202A	01/20/2011 15:02	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:50	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202A	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203A	01/10/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182103A	12/21/2010 17:40	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039403A	12/21/2010 17:40	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE045-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.4		1.04
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.04
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7		1.04
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.04
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.4		1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.04
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7		1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7		1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.04
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7		1.04
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7		1.04
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7		1.04
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.04
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.04
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.04
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.04
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.04
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7		1.04
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7		1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.04
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7		1.04
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.4		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.4		1.04
06192	Methylene Chloride	75-09-2	0.93	J	0.28	4.7		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.04

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE045-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.04
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7		1.04
06192	Toluene	108-88-3	0.15	J	0.09	4.7		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7		1.04
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.04
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.04
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7		1.04
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7		1.04
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	76.2		18.8	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE045-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE045-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.67
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U	84	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	70	U	70	170	10000000	1
10132	Tetryl	479-45-8	86	U	86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1

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Sample Description: SL-026-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE045-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.49	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.5		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	4.2		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	240	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,700		5.60	22.3		1
07914	Boron	7440-42-8	6.96		0.991	5.57		1

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Sample Description: SL-026-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE045-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	11,100		6.83	22.3		1
01654	Iron	7439-89-6	25,600		5.25	22.3		1
01656	Lithium	7439-93-2	21.9		0.25	2.2		1
01657	Magnesium	7439-95-4	6,390		2.83	11.1		1
06958	Manganese	7439-96-5	425		0.0869	0.557		1
10145	Phosphorus	7723-14-0	320		0.624	11.1		1
01662	Potassium	7440-09-7	2,370		20.0	55.7		1
01667	Sodium	7440-23-5	266		41.5	111		1
07968	Strontium	7440-24-6	29.2		0.0691	0.557		1
06969	Tin	7440-31-5	2.43	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,280		0.423	1.11		1
10146	Zirconium	7440-67-7	5.01	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.38		0.0668	0.445		2
06126	Barium	7440-39-3	142		0.120	0.445		2
06127	Beryllium	7440-41-7	0.864		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.211		0.0401	0.111		2
06131	Chromium	7440-47-3	39.6		0.134	0.445		2
06132	Cobalt	7440-48-4	9.07		0.0223	0.111		2
06133	Copper	7440-50-8	15.0		0.0735	0.445		2
06135	Lead	7439-92-1	10.5		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.482		0.0557	0.111		2
06139	Nickel	7440-02-0	21.8		0.111	0.445		2
06141	Selenium	7782-49-2	0.115	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0298	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.374		0.0334	0.111		2
06148	Vanadium	7440-62-2	72.6		0.0245	0.111		2
06149	Zinc	7440-66-6	84.7		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.3		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.22	1.1		1

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Sample Description: SL-026-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE045-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	395		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	11.1		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-026-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	05:03	Laura M Krieger	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010	11:09	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035223369	12/18/2010	17:47	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011	14:28	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	21:22	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	14:03	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010	10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010	06:15	Kerrie A Freeburn	1

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Sample Description: **SL-026-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E4513 SDG#: DE045-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/21/2010 00:23	Marie D John	23.67
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010 17:47	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/04/2011 23:34	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 22:57	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 05:42	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 19:21	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 19:28	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 20:59	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550028A	12/24/2010 21:25	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550028A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 18:26	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2

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Sample Description: **SL-026-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169028
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE045-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202B	01/11/2011 20:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010202B	01/11/2011 20:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203B	01/11/2011 20:57	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 15:27	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201A	12/30/2010 18:51	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202B	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203B	01/10/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201A	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182103A	12/21/2010 17:40	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039403A	12/21/2010 17:40	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Sample Description: SL-026-SA5B-SB-9.0-10 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE045-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	0.62	J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: **SL-026-SA5B-SB-9.0-10 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE045-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.89
06192	Toluene	108-88-3	0.08	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.89
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.3	J	18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-026-SA5B-SB-9.0-10 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE045-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-026-SA5B-SB-9.0-10 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE045-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.93
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82	U	82	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	84	U	84	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	160	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
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E4514 SDG#: DE045-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	220	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	6.6	U	6.6	14		1
08283	Propylene glycol	57-55-6	8.7	U	8.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,900		5.33	21.2		1

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Sample Description: **SL-026-SA5B-SB-9.0-10 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE045-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	4.31	J	0.943	5.30		1
01650	Calcium	7440-70-2	2,330		6.50	21.2		1
01654	Iron	7439-89-6	20,300		4.99	21.2		1
01656	Lithium	7439-93-2	21.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,250		2.69	10.6		1
06958	Manganese	7439-96-5	268		0.0827	0.530		1
10145	Phosphorus	7723-14-0	157		0.594	10.6		1
01662	Potassium	7440-09-7	1,870		19.1	53.0		1
01667	Sodium	7440-23-5	240		39.5	106		1
07968	Strontium	7440-24-6	20.6		0.0657	0.530		1
06969	Tin	7440-31-5	2.36	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,110		0.403	1.06		1
10146	Zirconium	7440-67-7	2.87	J	0.890	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0835	J	0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.37		0.0636	0.424		2
06126	Barium	7440-39-3	103		0.114	0.424		2
06127	Beryllium	7440-41-7	0.808		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0665	J	0.0382	0.106		2
06131	Chromium	7440-47-3	27.9		0.127	0.424		2
06132	Cobalt	7440-48-4	6.61		0.0212	0.106		2
06133	Copper	7440-50-8	10.8		0.0700	0.424		2
06135	Lead	7439-92-1	8.34		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.407		0.0530	0.106		2
06139	Nickel	7440-02-0	14.6		0.106	0.424		2
06141	Selenium	7782-49-2	0.0900	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0313	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.302		0.0318	0.106		2
06148	Vanadium	7440-62-2	49.0		0.0233	0.106		2
06149	Zinc	7440-66-6	64.4		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-026-SA5B-SB-9.0-10 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE045-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	480		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	8.4		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-026-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103543AA	12/21/2010	05:26	Laura M Krieger	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010	11:29	Jason M Long	21.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035223369	12/18/2010	17:54	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035223369	12/18/2010	17:52	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011	14:45	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLF026	01/18/2011	21:57	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLK026	01/11/2011	14:35	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010	10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLK026	12/29/2010	06:15	Kerrie A Freeburn	1

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Sample Description: SL-026-SA5B-SB-9.0-10 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
LLI Group # 1226239
Account # 13013

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E4514 SDG#: DE045-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLF026	12/29/2010 08:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10354A34A	12/21/2010 00:59	Marie D John	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035223369	12/18/2010 17:50	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/05/2011 00:16	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103560015A	12/23/2010 23:07	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 06:01	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103560015A	12/22/2010 17:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 15:37	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540003A	12/21/2010 19:42	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103540008A	12/22/2010 23:39	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550028A	12/24/2010 22:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550028A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103540008A	12/20/2010 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103540003A	12/21/2010 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
07914	Boron	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
01654	Iron	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
06969	Tin	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103575708005	12/30/2010 18:36	John P Hook	1
06124	Antimony	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026002D	01/03/2011 10:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2

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Sample Description: **SL-026-SA5B-SB-9.0-10 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169029
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4514 SDG#: DE045-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026002C	01/03/2011 10:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026002B	01/03/2011 10:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026002A	01/03/2011 10:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711006	12/28/2010 17:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708005	12/27/2010 09:22	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026002	12/27/2010 10:25	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711006	12/27/2010 11:40	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010202B	01/11/2011 21:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11010010202B	01/11/2011 21:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010203B	01/11/2011 22:29	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11016243202A	01/20/2011 15:39	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201B	12/30/2010 18:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010202B	01/10/2011 10:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010203B	01/10/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201B	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10355182103A	12/21/2010 17:40	Luz M Groff	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10355039403A	12/21/2010 17:40	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11016243202A	01/16/2011 07:55	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-121710 Water
SSFL Area IV Collocated Soil Sampling
TB-121710

LLI Sample # WW 6169030
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:00

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE045-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-121710 Water**
SSFL Area IV Collocated Soil Sampling
TB-121710

LLI Sample # WW 6169030
LLI Group # 1226239
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:00

Submitted: 12/18/2010 12:40
Reported: 01/27/2011 12:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE045-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103572AA	12/23/2010	16:14	Sara E Johnson	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103541AA	12/20/2010	11:40	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103541AA	12/20/2010	11:40	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103572AA	12/23/2010	16:14	Sara E Johnson	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10355B20A	12/22/2010	11:52	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10355B20A	12/22/2010	11:52	Carrie E Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103543AA	Sample number(s): 6169024-6169029									
Acetone	6.7	U	6.7	8.0	ug/kg	130	124	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	105	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94	93	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	98	95	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	96	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	92	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	78	79	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	114	108	46-153	5	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100	99	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	99	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	94	94	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	104	103	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	82	81	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	101	101	43-146	1	30
Chloroform	0.12	U	0.12	4.0	ug/kg	103	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	90	92	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	96	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	97	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	56	56	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	89	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	96	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	99	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97	97	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	94	94	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	96	95	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	82	80	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	105	104	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102	100	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107	104	73-123	3	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	103	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	101	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	100	97	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101	101	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	103	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	93	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91	91	77-120	0	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	101	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	107	104	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	81	81	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91	91	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	79	77	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	99	76-120	0	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	99	99	75-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96	96	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	79	76	61-134	3	30
Methylene Chloride	0.50	J	0.24	4.0	ug/kg	98	97	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	102	102	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	98	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	97	94	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	104	103	77-120	1	30
Toluene	0.11	J	0.08	4.0	ug/kg	101	101	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	92	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90	91	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	100	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	96	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	102	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	91	88	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96	95	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	99	100	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	100	99	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89	89	53-120	0	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	101	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	97	80-120	0	30
Batch number: E103541AA	Sample number(s): 6169030									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	106	60-132	1	30
Batch number: E103571AA	Sample number(s): 6169024-6169029									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	101	98	70-130	3	30
Batch number: Y103572AA	Sample number(s): 6169030									
Acetone	6	U	6.	20	ug/l	213	204	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	95	94	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	98	95	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	100	99	80-120	2	30
Bromoform	1	U	1.	5	ug/l	103	102	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	79	80	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	157*	152*	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	91	90	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	90	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	113	113	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	85	85	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	112	111	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	103	101	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	81	82	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	92	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	97	92	38-136	5	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	124*	119	66-120	4	30
Dibromochloromethane	1	U	1.	5	ug/l	104	104	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	97	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	98	95	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	93	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	64	64	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	105	105	79-120	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	112	112	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	88	86	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	101	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	104	103	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	98	79-120	0	30
Freon 113	2	U	2.	10	ug/l	93	91	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	89	88	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	89	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	146*	143*	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	103	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	117	116	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	88	86	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	104	102	80-120	2	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	105	105	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	104	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	97	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	96	95	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	90	90	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	88	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	95	93	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	85	83	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	112	110	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	103	100	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	98	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	75	74	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30
Batch number: 10354WAI026	Sample number(s): 6169017-6169018									
Acenaphthene	0.010	U	0.010	0.050	ug/l	75	75	74-109	0	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	77	78	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	76	77	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	79	80	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	74	75	64-115	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	81	83	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	62*	68	68-125	10	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	79	81	72-122	2	30
Butylbenzylphthalate	0.099	J	0.050	1.0	ug/l	83	86	70-130	4	30
Di-n-butylphthalate	0.16	J	0.050	1.0	ug/l	92	93	70-130	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	76	78	76-116	3	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	60*	65*	71-125	8	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	92	96	70-130	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	80	85	70-130	6	30
Bis(2-Ethylhexyl)phthalate	0.19	J	0.050	1.0	ug/l	80	80	70-130	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	77	80	75-116	4	30
Fluorene	0.010	U	0.010	0.050	ug/l	80	81	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	60*	66*	69-124	10	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	79	78	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	69*	67*	75-115	2	30
Naphthalene	0.010	U	0.010	0.050	ug/l	72	71*	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	54*	53*	70-130	1	30
Di-n-octylphthalate	0.18	J	0.050	1.0	ug/l	79	79	70-130	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	72*	73*	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	80	83	69-118	4	30
Batch number: 10354WAM026	Sample number(s): 6169017-6169018									
Aniline	1	U	1.	5	ug/l	61	90	49-101	39*	30
Benzidine	20	U	20.	60	ug/l	52	80	20-109	44*	30
Benzoic acid	6	U	6.	15	ug/l	16	32	10-69	67*	30
Benzyl alcohol	5	U	5.	15	ug/l	81	95	66-97	16	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	93	99	82-117	5	30
Carbazole	1	U	1.	5	ug/l	96	102	81-114	7	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	91	100	70-123	9	30
4-Chloroaniline	1	U	1.	5	ug/l	55	83	42-124	40*	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	90	97	74-124	8	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	89	96	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	90	96	62-127	6	30
2-Chloronaphthalene	2	U	2.	5	ug/l	74	78	54-132	6	30
2-Chlorophenol	1	U	1.	5	ug/l	89	101	77-108	12	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	96	82-111	6	30
Dibenzofuran	1	U	1.	5	ug/l	93	99	83-108	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	68	72	67-108	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	62*	67	63-110	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	64*	68	65-113	5	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	63	82	49-111	26	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	91	99	80-109	9	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	89	97	72-110	8	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	94	104	70-130	10	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	83	92	78-119	11	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	72	89	64-120	21	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	93	99	81-115	7	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	95	102	85-115	7	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	103	78-116	6	30
Hexachlorobenzene	1	U	1.	5	ug/l	93	98	81-118	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	58	61	57-124	6	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	30	45	10-118	40*	30
Hexachloroethane	1	U	1.	5	ug/l	53	58	52-113	9	30
Isophorone	1	U	1.	5	ug/l	92	98	74-117	7	30
2-Methylphenol	1	U	1.	5	ug/l	85	94	64-101	10	30
4-Methylphenol	2	U	2.	5	ug/l	76	91	61-103	18	30
2-Nitroaniline	1	U	1.	5	ug/l	94	103	83-116	9	30
3-Nitroaniline	1	U	1.	5	ug/l	92	104	74-113	12	30
4-Nitroaniline	1	U	1.	5	ug/l	78	87	59-100	11	30
Nitrobenzene	1	U	1.	5	ug/l	91	96	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	87	98	86-120	12	30
4-Nitrophenol	10	U	10.	30	ug/l	41	48	16-78	15	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	90	97	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	92	98	67-136	7	30
Pentachlorophenol	3	U	3.	15	ug/l	90	97	53-110	7	30
Phenol	1	U	1.	5	ug/l	43	52	29-67	19	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	71	73	71-112	3	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	102	79-107	13	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	91	98	81-113	8	30
Batch number: 10362SLF026	Sample number(s): 6169016,6169019-6169029									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aniline	170 U		170.	500	ug/kg	37		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	34		15-121		
Benzoic acid	170 U		170.	500	ug/kg	92		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	37		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	86		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	77		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	93		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	92		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	39		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	106		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	91		68-105		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	87		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	61		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	96		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	80		35-106		
Phenol	17	U	17.	170	ug/kg	90		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10362SLK026	Sample number(s): 6169016,6169019-6169029									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	95		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	101		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	111		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	100		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	112		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 10363SLG026	Sample number(s): 6169024-6169029									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 10354A34A	Sample number(s): 6169024-6169029									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	79	67-119	6	30
Batch number: 10355B20A	Sample number(s): 6169030									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 103630002A	Sample number(s): 6169024-6169029									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	114		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	95	101	54-134	6	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	94	100	54-134	6	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	111		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	108		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	116		80-120		
HMX	130 U		130.	380	ug/kg	102		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	110		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	99		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	114		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	114		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	113		80-120		
PETN	1,000		1,000.	3,000	ug/kg	113		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
RDX	63	U	63.	150	ug/kg	111		75-131		
Tetryl	77	U	77.	150	ug/kg	134		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	127		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	115		80-120		
Batch number: 103560015A	Sample number(s): 6169024-6169029									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	96		80-126		
Batch number: 103560021A	Sample number(s): 6169017-6169018									
2,4-D	0.16	U	0.16	0.50	ug/l	140*	148*	45-128	6	30
Dalapon	0.25	U	0.25	1.3	ug/l	98	100	40-100	2	30
2,4-DB	0.30	U	0.30	1.0	ug/l	108	112	41-138	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	112	51-144	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	60	67	23-93	11	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	160*	168*	72-145	5	30
MCPA	300	U	300.	1,000	ug/l	116	124	69-129	7	30
MCPP	50	U	50.	200	ug/l	96	104	66-132	8	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	112	112	53-141	0	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	108	116	56-135	7	30
Batch number: 103620013A	Sample number(s): 6169016,6169019-6169023									
2,4-D	1.2	U	1.2	3.6	ug/kg	109		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	30		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	99		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	88		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	6*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	118		60-141		
MCPA	76	U	76.	250	ug/kg	89		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	87		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	107		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	90		48-138		
Batch number: 103550011A	Sample number(s): 6169017-6169018									
Aldrin	0.0020	U	0.0020	0.010	ug/l	101	101	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	122	122	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	98	103	73-147	5	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	89	96	68-128	8	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	90	105	71-139	15	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	105	116	66-130	10	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	100	85	53-126	16	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	97	103	76-148	6	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	105	76-132	5	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	79	89	68-128	12	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	85	95	59-144	11	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	85	105	71-142	21	30
Endrin	0.0081	U	0.0081	0.020	ug/l	75	90	52-132	18	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	95	105	68-139	10	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	95	105	69-146	10	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	92	97	57-126	5	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	95	102	73-156	7	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	75	91	52-133	19	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103550012A	Sample number(s): 6169017-6169018									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	44*	44*	75-125	0	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	96	68-119	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	92	96	68-121	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103610029A	Sample number(s): 6169016,6169019-6169023									
Aldrin	0.066	U	0.066	0.17	ug/kg	100		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	67		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	78		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	70		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	76		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	114		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	72		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	75		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	80		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	76		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	92		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	92		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	74		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	68		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	85		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	76		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	100		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	74		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103610033A	Sample number(s): 6169016,6169019-6169029									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	68*	71*	75-125	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	103		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	126		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103620026A	Sample number(s): 6169024-6169029									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		66-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103540003A	Sample number(s): 6169024-6169029								
Ethanol	100 U	100.	500	ug/kg	95		75-112		
Isopropanol	100 U	100.	500	ug/kg	95		75-125		
Methanol	100 U	100.	500	ug/kg	91		75-134		
Batch number: 103540008A	Sample number(s): 6169024-6169029								
Diethylene glycol	5.0 U	5.0	13	mg/kg	95		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	97		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	90		75-125		
Batch number: 103550028A	Sample number(s): 6169024-6169029								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	99		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	99		75-125		
Batch number: 103545713001	Sample number(s): 6169017-6169018								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	97		80-120		
Batch number: 103551848003	Sample number(s): 6169017-6169018								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	92	90-112	4	20
Boron	0.0138 U	0.0138	0.0500	mg/l	97	94	90-110	3	20
Calcium	0.0960 J	0.0702	0.200	mg/l	102	99	90-112	3	20
Iron	0.0522 U	0.0522	0.200	mg/l	102	98	90-112	4	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	98	80-120	2	20
Magnesium	0.0421 J	0.0172	0.100	mg/l	101	98	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	101	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	100	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	97	90-110	3	20
Tin	0.0098 U	0.0098	0.0200	mg/l	103	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	99	80-120	3	20
Batch number: 103556050002A	Sample number(s): 6169017-6169018								
Antimony	0.00030 U	0.00030	0.0010	mg/l	105	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	106	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	108	103	90-112	5	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	102	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	104	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	104	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	109	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	107	108	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	101	89-116	0	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	80-120	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	109	105	80-120	4	20
Batch number: 103556050002B	Sample number(s): 6169017-6169018								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	107	85-114	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 103556050002C	Sample number(s): 6169017-6169018								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	103	80-120	2	20
Batch number: 103556050002D	Sample number(s): 6169017-6169018								
Barium	0.00038 U	0.00038	0.0020	mg/l	107	106	88-113	1	20
Batch number: 103571026002A	Sample number(s): 6169016,6169019-6169029								
Antimony	0.0577 U	0.0577	0.192	mg/kg	63		11-208		
Arsenic	0.0577 U	0.0577	0.385	mg/kg	97		80-120		
Beryllium	0.0154 U	0.0154	0.0962	mg/kg	98		82-118		
Cadmium	0.0346 U	0.0346	0.0962	mg/kg	99		82-118		
Chromium	0.115 U	0.115	0.385	mg/kg	103		80-120		
Cobalt	0.0192 U	0.0192	0.0962	mg/kg	99		82-118		
Copper	0.203 J	0.0635	0.385	mg/kg	99		80-120		
Lead	0.0114 J	0.0100	0.192	mg/kg	98		80-120		
Nickel	0.121 J	0.0962	0.385	mg/kg	105		80-120		
Silver	0.0115 U	0.0115	0.0962	mg/kg	100		66-134		
Thallium	0.0288 U	0.0288	0.0962	mg/kg	101		81-119		
Vanadium	0.0212 U	0.0212	0.0962	mg/kg	94		90-110		
Zinc	0.601 J	0.538	2.88	mg/kg	101		78-122		
Batch number: 103571026002B	Sample number(s): 6169016,6169019-6169029								
Selenium	0.0385 U	0.0385	0.385	mg/kg	97		79-122		
Batch number: 103571026002C	Sample number(s): 6169016,6169019-6169029								
Molybdenum	0.0481 U	0.0481	0.0962	mg/kg	103		78-122		
Batch number: 103571026002D	Sample number(s): 6169016,6169019-6169029								
Barium	0.104 U	0.104	0.385	mg/kg	106		79-121		
Batch number: 103575708005	Sample number(s): 6169016,6169019-6169029								
Aluminum	16.5 J	4.98	19.8	mg/kg	95		61-110		
Boron	0.881 U	0.881	4.95	mg/kg	90		78-110		
Calcium	13.9 J	6.07	19.8	mg/kg	98		88-110		
Iron	6.65 J	4.66	19.8	mg/kg	86		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.51 U	2.51	9.90	mg/kg	97		82-110		
Manganese	0.0772 U	0.0772	0.495	mg/kg	98		81-119		
Phosphorus	1.41 J	0.554	9.90	mg/kg	100		80-120		
Potassium	17.8 U	17.8	49.5	mg/kg	98		78-110		
Sodium	36.9 U	36.9	99.0	mg/kg	98		87-110		
Strontium	0.0782 J	0.0614	0.495	mg/kg	98		79-121		
Tin	1.13 J	0.990	9.90	mg/kg	96		90-114		
Titanium	0.376 U	0.376	0.990	mg/kg	90		80-120		
Zirconium	0.832 U	0.832	4.95	mg/kg	100		80-120		
Batch number: 103575711006	Sample number(s): 6169016,6169019-6169029								
Mercury	0.0027 U	0.0027	0.0934	mg/kg	110		88-123		
Batch number: 10352196301A	Sample number(s): 6169017-6169018								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	104	106	90-110	2	20
Batch number: 10355196901A	Sample number(s): 6169017-6169018								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	94	94	90-110	0	20
Batch number: 10363658701A	Sample number(s): 6169017-6169018								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	93	96	85-115	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10364102201A	Sample number(s): 6169024-6169028									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 10364102201B	Sample number(s): 6169029									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11010010202A	Sample number(s): 6169016,6169019-6169027									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11010010202B	Sample number(s): 6169028-6169029									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11010010203A	Sample number(s): 6169016,6169019-6169027									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11010010203B	Sample number(s): 6169028-6169029									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11016243202A	Sample number(s): 6169016,6169019-6169029									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	99		80-120		
Batch number: 10355039402B	Sample number(s): 6169016,6169019-6169026									
22a pH by 9045C						100		95-105		
Batch number: 10355039403A	Sample number(s): 6169027-6169029									
22a pH by 9045C						100		95-105		
Batch number: 10355182102B	Sample number(s): 6169016,6169019-6169026									
Oxidation Reduction Potential						100		98-102		
Batch number: 10355182103A	Sample number(s): 6169027-6169029									
Oxidation Reduction Potential						100		98-102		
Batch number: 10354162401B	Sample number(s): 6169016,6169019-6169023									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11011162401A	Sample number(s): 6169024-6169029									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103543AA	Sample number(s): 6169024-6169029 UNSPK: P167517								
Acetone	117		15-210						
Benzene	114		55-143						
Bromobenzene	102		43-139						
Bromochloromethane	105		60-137						
Bromodichloromethane	103		53-136						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromoform	90		38-124						
Bromomethane	85		42-168						
2-Butanone	101		37-163						
n-Butylbenzene	107		30-146						
sec-Butylbenzene	111		33-157						
tert-Butylbenzene	108		41-152						
Carbon Tetrachloride	116		45-153						
Chlorobenzene	107		49-135						
Chloroethane	90		39-152						
2-Chloroethyl Vinyl Ether	97		32-139						
Chloroform	112		61-142						
Chloromethane	101		51-163						
2-Chlorotoluene	108		42-146						
4-Chlorotoluene	108		39-145						
1,2-Dibromo-3-chloropropane	81		30-139						
Dibromochloromethane	100		51-128						
1,2-Dibromoethane	98		54-129						
Dibromomethane	104		57-130						
1,2-Dichlorobenzene	97		36-133						
1,3-Dichlorobenzene	98		34-134						
1,4-Dichlorobenzene	98		35-136						
Dichlorodifluoromethane	91		26-151						
1,1-Dichloroethane	114		63-142						
1,2-Dichloroethane	107		68-131						
1,1-Dichloroethene	118		61-149						
cis-1,2-Dichloroethene	113		60-136						
trans-1,2-Dichloroethene	115		59-142						
1,2-Dichloropropane	109		62-135						
1,3-Dichloropropane	103		58-129						
2,2-Dichloropropane	109		53-147						
1,1-Dichloropropene	115		54-145						
cis-1,3-Dichloropropene	97		51-131						
trans-1,3-Dichloropropene	95		49-129						
Ethylbenzene	110		44-141						
Freon 113	120		56-156						
Hexachlorobutadiene	75		10-155						
2-Hexanone	70		32-160						
Isopropylbenzene	109		38-144						
p-Isopropyltoluene	109		29-152						
Methyl Tertiary Butyl Ether	97		55-129						
4-Methyl-2-pentanone	71		46-139						
Methylene Chloride	105		61-141						
n-Propylbenzene	117		39-157						
Styrene	103		35-134						
1,1,1,2-Tetrachloroethane	107		52-130						
1,1,2,2-Tetrachloroethane	100		40-152						
Tetrachloroethene	109		42-149						
Toluene	111		50-146						
1,2,3-Trichlorobenzene	65		10-140						
1,2,4-Trichlorobenzene	69		10-136						
1,1,1-Trichloroethane	110		64-142						
1,1,2-Trichloroethane	102		54-139						
Trichloroethene	110		53-144						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichlorofluoromethane	101		47-163						
1,2,3-Trichloropropane	96		45-154						
1,2,4-Trimethylbenzene	109		37-149						
1,3,5-Trimethylbenzene	111		38-150						
Vinyl Chloride	100		50-154						
m+p-Xylene	110		44-137						
o-Xylene	105		42-137						
Batch number: E103541AA	Sample number(s): 6169030 UNSPK: P169422								
1,4-Dioxane	96		50-150						
Batch number: E103571AA	Sample number(s): 6169024-6169029 UNSPK: P172090								
1,4-Dioxane	86	89	70-130	6	30				
Batch number: 10362SLF026	Sample number(s): 6169016,6169019-6169029 UNSPK: P172038								
Aniline	59	68	14-114	15	30				
Benzidine	35	19*	35-141	57*	30				
Benzoic acid	93	95	10-173	2	30				
Benzyl alcohol	86	89	55-123	4	30				
4-Bromophenyl-phenylether	90	92	67-129	3	30				
Carbazole	92	95	64-120	3	30				
4-Chloro-3-methylphenol	90	91	53-130	1	30				
4-Chloroaniline	74	80	23-95	9	30				
bis(2-Chloroethoxy)methane	93	96	54-117	3	30				
bis(2-Chloroethyl)ether	84	84	60-116	0	30				
bis(2-Chloroisopropyl)ether	86	87	55-142	1	30				
2-Chloronaphthalene	78	89	50-141	12	30				
2-Chlorophenol	90	94	73-121	5	30				
4-Chlorophenyl-phenylether	89	96	64-119	7	30				
Dibenzofuran	89	95	71-112	7	30				
1,2-Dichlorobenzene	87	89	66-108	2	30				
1,3-Dichlorobenzene	85	87	63-109	3	30				
1,4-Dichlorobenzene	86	88	53-113	3	30				
3,3'-Dichlorobenzidine	77	84	25-123	10	30				
2,4-Dichlorophenol	90	96	78-117	6	30				
2,4-Dimethylphenol	91	94	56-130	4	30				
3,5-Dimethylphenol	101	104	70-130	3	30				
4,6-Dinitro-2-methylphenol	78	76	10-148	3	30				
2,4-Dinitrophenol	68	66	20-143	3	30				
2,4-Dinitrotoluene	93	98	57-114	6	30				
2,6-Dinitrotoluene	91	97	69-123	6	30				
1,2-Diphenylhydrazine	99	101	71-129	2	30				
Hexachlorobenzene	94	96	61-111	2	30				
Hexachlorobutadiene	98	101	62-120	4	30				
Hexachlorocyclopentadiene	79	85	10-153	7	30				
Hexachloroethane	91	94	57-109	4	30				
Isophorone	87	92	51-118	5	30				
2-Methylphenol	87	90	47-142	4	30				
4-Methylphenol	84	89	55-126	5	30				
2-Nitroaniline	102	109	67-125	7	30				
3-Nitroaniline	91	96	59-122	6	30				
4-Nitroaniline	75	91	52-112	20	30				
Nitrobenzene	97	97	51-114	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitrophenol	93	94	74-115	1	30				
4-Nitrophenol	99	106	39-133	7	30				
N-Nitroso-di-n-propylamine	86	90	60-116	4	30				
N-Nitrosodiphenylamine	93	97	86-145	4	30				
Pentachlorophenol	79	80	17-149	1	30				
Phenol	86	93	58-126	8	30				
1,2,4-Trichlorobenzene	89	96	72-115	7	30				
2,4,5-Trichlorophenol	97	102	34-139	5	30				
2,4,6-Trichlorophenol	100	107	49-140	7	30				
Batch number: 10362SLK026	Sample number(s): 6169016,6169019-6169029 UNSPK: P172038								
Acenaphthene	97	96	63-105	1	30				
Acenaphthylene	93	98	55-126	5	30				
Anthracene	98	94	46-136	4	30				
Benzo(a)anthracene	101	108	39-144	6	30				
Benzo(a)pyrene	95	98	34-156	3	30				
Benzo(b)fluoranthene	106	107	43-155	1	30				
Benzo(g,h,i)perylene	70	63	33-141	9	30				
Benzo(k)fluoranthene	98	106	42-144	8	30				
Butylbenzylphthalate	120	128	73-140	7	30				
Di-n-butylphthalate	111	111	78-160	0	30				
Chrysene	89	93	29-156	4	30				
Dibenz(a,h)anthracene	84	78	41-130	6	30				
Diethylphthalate	102	112	87-131	9	30				
Dimethylphthalate	102	112	74-118	9	30				
Bis(2-Ethylhexyl)phthalate	82	109	39-167	19	30				
Fluoranthene	97	100	26-166	3	30				
Fluorene	98	105	45-121	7	30				
Indeno(1,2,3-cd)pyrene	82	74	21-143	10	30				
1-Methylnaphthalene	94	93	72-123	1	30				
2-Methylnaphthalene	87	86	28-121	1	30				
Naphthalene	94	99	61-102	5	30				
N-Nitrosodimethylamine	101	23*	48-113	126*	30				
Di-n-octylphthalate	88	95	40-192	6	30				
Phenanthrene	93	96	12-165	3	30				
Pyrene	87	92	15-153	5	30				
Batch number: 10363SLG026	Sample number(s): 6169024-6169029 UNSPK: P172090								
N-Nitrosodimethylamine	69*	69*	70-130	0	30				
Batch number: 103630002A	Sample number(s): 6169024-6169029 UNSPK: P172090								
4-Amino-2,6-Dinitrotoluene	94	101	80-127	7	50				
2-Amino-4,6-Dinitrotoluene	93	99	80-137	6	50				
1,3-Dinitrobenzene	96	100	38-166	4	50				
2,4-Dinitrotoluene	93	98	80-131	5	50				
2,6-Dinitrotoluene	98	104	80-127	5	50				
HMX	80	87	63-128	8	50				
Nitrobenzene	100	102	80-125	2	50				
Nitroglycerin	83	89	80-120	6	50				
2-Nitrotoluene	101	105	80-122	4	50				
3-Nitrotoluene	101	105	72-119	3	50				
4-Nitrotoluene	100	104	80-125	4	50				
PETN	92	99	80-121	8	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
RDX	85	93	75-129	9	50				
Tetryl	99	109	55-174	10	50				
1,3,5-Trinitrobenzene	106	112	82-126	5	50				
2,4,6-Trinitrotoluene	95	100	82-130	6	50				
Batch number: 103560015A	Sample number(s): 6169024-6169029 UNSPK: P167517								
17a Formaldehyde by 8315A	92	94	80-120	1	50				
Batch number: 103620013A	Sample number(s): 6169016,6169019-6169023 UNSPK: 6169016								
2,4-D	101	106	28-161	5	35				
Dalapon	31	37	12-86	19	50				
2,4-DB	74	69	20-170	7	50				
Dicamba	145*	92	33-120	45	50				
Dinoseb	10	10	1-44	0	35				
2,4-DP (Dichlorprop)	187*	158*	55-141	17	50				
MCPA	126	127	31-184	1	50				
MCPP (Mecoprop)	76	80	16-174	5	50				
2,4,5-T	81	83	25-132	3	35				
2,4,5-TP	82	83	10-183	1	35				
Batch number: 103610029A	Sample number(s): 6169016,6169019-6169023 UNSPK: P167524								
Aldrin	79	70	16-126	12	50				
Alpha BHC	52	45	10-129	13	50				
Beta BHC	69	59	14-147	15	50				
Gamma BHC - Lindane	58	48	10-140	17	50				
p,p-DDD	55	67	16-163	20	50				
p,p-DDE	52	42	18-161	12	50				
p,p-DDT	-94*	2*	10-176	54*	50				
Delta BHC	66	59	23-140	10	50				
Dieldrin	58	56	19-154	3	50				
Endosulfan I	45	39	16-137	14	50				
Endosulfan II	52	49	28-154	4	50				
Endosulfan Sulfate	111	95	21-160	15	50				
Endrin	58	56	11-149	3	50				
Endrin Aldehyde	59	41	10-148	24	35				
Endrin Ketone	58	49	22-165	13	50				
Heptachlor	61	52	13-126	16	50				
Heptachlor Epoxide	70	67	13-157	4	50				
Methoxychlor	83	64	32-147	26	50				
Batch number: 103610033A	Sample number(s): 6169016,6169019-6169029 UNSPK: P172060								
PCB-1016	72	85	29-146	16	50				
PCB-1260	51	67	39-149	17	50				
Batch number: 103620026A	Sample number(s): 6169024-6169029 UNSPK: P172090								
EFH (C12-C14)	74	69	49-123	7	20				
EFH (C15-C20)	97	90	49-123	8	20				
EFH (C21-C30)	55	41*	49-123	11	20				
EFH (C30 - C40)	17*	-23*	49-123	29*	20				
EFH (C8-C11)	54	56	49-123	4	20				
Batch number: 103540003A	Sample number(s): 6169024-6169029 UNSPK: P167520								
Ethanol	80	81	24-143	1	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isopropanol	79	82	75-125	3	20				
Methanol	89	89	45-136	1	20				
Batch number: 103540008A	Sample number(s): 6169024-6169029 UNSPK: P167517								
Diethylene glycol	12*	24*	59-109	69*	20				
Ethylene glycol	50*	67	63-107	28*	20				
Propylene glycol	47*	59*	63-107	23*	20				
Batch number: 103550028A	Sample number(s): 6169024-6169029 UNSPK: 6169024								
m-Terphenyl	96	95	75-125	1	20				
o-Terphenyl	105	102	75-125	3	20				
p-Terphenyl	99	95	75-125	5	20				
Batch number: 103571026002A	Sample number(s): 6169016,6169019-6169029 UNSPK: P172316 BKG: P172316								
Antimony	37*	45*	75-125	14	20	0.0932 J	0.0866 J	7 (1)	20
Arsenic	151*	199*	75-125	11	20	5.16	5.63	9	20
Beryllium	111	111	75-125	1	20	0.480	0.449	7 (1)	20
Cadmium	142*	135*	75-125	5	20	0.194	0.180	8 (1)	20
Chromium	150*	166*	75-125	4	20	17.0	16.9	1	20
Cobalt	118	122	75-125	2	20	4.92	5.20	5	20
Copper	126*	132*	75-125	2	20	7.26	7.63	5	20
Lead	164*	179*	75-125	3	20	8.38	8.14	3	20
Nickel	143*	143*	75-125	1	20	10.1	10.7	5	20
Silver	121	121	75-125	0	20	0.0239 J	0.0312 J	27* (1)	20
Thallium	123	124	75-125	0	20	0.247	0.260	5 (1)	20
Vanadium	185*	203*	75-125	3	20	35.5	35.5	0	20
Zinc	226 (2)	210 (2)	75-125	2	20	59.3	61.8	4	20
Batch number: 103571026002B	Sample number(s): 6169016,6169019-6169029 UNSPK: P172316 BKG: P172316								
Selenium	105	109	75-125	3	20	0.128 J	0.132 J	3 (1)	20
Batch number: 103571026002C	Sample number(s): 6169016,6169019-6169029 UNSPK: P172316 BKG: P172316								
Molybdenum	139*	140*	75-125	0	20	0.382	0.391	2 (1)	20
Batch number: 103571026002D	Sample number(s): 6169016,6169019-6169029 UNSPK: P172316 BKG: P172316								
Barium	306 (2)	253 (2)	75-125	5	20	86.9	85.9	1	20
Batch number: 103575708005	Sample number(s): 6169016,6169019-6169029 UNSPK: P172316 BKG: P172316								
Aluminum	726 (2)	535 (2)	75-125	3	20	12,200	11,600	5	20
Boron	94	92	84-115	2	20	3.89 J	3.90 J	0 (1)	20
Calcium	153 (2)	145 (2)	75-125	1	20	2,460	2,400	2	20
Iron	-881 (2)	-1536 (2)	75-125	4	20	18,500	16,900	9	20
Lithium	97	93	82-114	3	20	24.4	22.3	9	20
Magnesium	-20 (2)	-81 (2)	75-125	2	20	5,230	4,770	9	20
Manganese	49 (2)	40 (2)	75-125	1	20	277	251	10	20
Phosphorus	82 (2)	81 (2)	75-125	0	20	419	406	3	20
Potassium	95	89	75-125	1	20	3,290	3,050	8	20
Sodium	102	99	75-125	3	20	62.6 J	59.3 J	6 (1)	20
Strontium	97	94	75-115	2	20	11.4	11.8	4	20
Tin	88	86	80-110	2	20	1.76 J	1.64 J	7 (1)	20
Titanium	186 (2)	192 (2)	75-125	0	20	1,130	1,080	5	20
Zirconium	93	91	75-125	2	20	3.69 J	3.70 J	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103575711006	Sample number(s): 6169016,6169019-6169029 UNSPK: P172316 BKG: P172316								
Mercury	103	102	65-135	6	20	0.0027 U	0.0028 U	0 (1)	20
Batch number: 10364102201A	Sample number(s): 6169024-6169028 UNSPK: 6169028 BKG: 6169028								
21a Cyanide by 9012B	101		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 10364102201B	Sample number(s): 6169029 UNSPK: P172090 BKG: P172090								
21a Cyanide by 9012B	104		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11010010202A	Sample number(s): 6169016,6169019-6169027 UNSPK: 6169019 BKG: 6169019								
11a Anions by 300.0 - Fluoride	96		80-120			0.96 J	0.92 J	4 (1)	20
11a Anions by 300.0 - Nitrate	110		80-120			7.3	6.3	15 (1)	20
Batch number: 11010010202B	Sample number(s): 6169028-6169029 UNSPK: 6169028 BKG: 6169028								
11a Anions by 300.0 - Fluoride	64*		80-120			5.6	4.7	17 (1)	20
11a Anions by 300.0 - Nitrate	92		80-120			0.95 J	1.1 J	17 (1)	20
Batch number: 11010010203A	Sample number(s): 6169016,6169019-6169027 UNSPK: 6169019 BKG: 6169019								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11010010203B	Sample number(s): 6169028-6169029 UNSPK: 6169028 BKG: 6169028								
7a Perchlorate EPA 314.0	104		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11016243202A	Sample number(s): 6169016,6169019-6169029 UNSPK: P172038 BKG: P172038								
3a Cr VI by EPA 7199	84		75-125			0.49 J	0.61 J	22* (1)	20
Batch number: 10355039402B	Sample number(s): 6169016,6169019-6169026 BKG: 6169019								
22a pH by 9045C						7.56	7.59	0	1
Batch number: 10355039403A	Sample number(s): 6169027-6169029 BKG: 6169029								
22a pH by 9045C						7.78	7.74	1	1
Batch number: 10355182102B	Sample number(s): 6169016,6169019-6169026 BKG: 6169019								
Oxidation Reduction Potential						515	511	1	6
Batch number: 10355182103A	Sample number(s): 6169027-6169029 BKG: 6169029								
Oxidation Reduction Potential						480	487	1	6
Batch number: 10354162401B	Sample number(s): 6169016,6169019-6169023 BKG: P158227								
28a Moisture Content by 160.3						12.4	12.9	3	20
Batch number: 11011162401A	Sample number(s): 6169024-6169029 BKG: P167523								
28a Moisture Content by 160.3						9.7	9.7	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Surrogate Quality Control

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103543AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6169024	103	102	99	90
6169025	104	99	98	92
6169026	105	104	97	93
6169027	104	101	97	89
6169028	103	100	98	92
6169029	106	107	97	93
Blank	102	99	98	93
LCS	99	102	100	100
LCSD	99	101	100	100
MS	100	100	103	97
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103541AA

	Toluene-d8
6169030	102
Blank	102
LCS	101
LCSD	101
MS	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103571AA

	Toluene-d8
6169024	99
6169025	100
6169026	99
6169027	100
6169028	100
6169029	100
Blank	101
LCS	100
LCSD	100
MS	100
MSD	100
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103572AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6169030	106	99	106	103
Blank	104	100	106	103
LCS	106	101	107	104
LCSD	106	102	107	105
Limits:	86-118	80-120	88-110	86-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Surrogate Quality Control

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10354WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6169017	88	74	70
6169018	84	74	64
Blank	70	64	83
LCS	76	66	83
LCSD	78	65	84
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10354WAM026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6169017	64	45	100	85	75	83
6169018	62	44	81	85	79	82
Blank	63	43	86	85	80	83
LCS	59	40	89	85	84	79
LCSD	71	49	99	92	91	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10362SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6169016	83	81	96	82	88	88
6169019	87	87	95	82	92	92
6169020	86	86	97	82	91	89
6169021	87	89	100	82	92	90
6169022	42	44	47	44	50	47
6169023	82	84	97	80	90	89
6169024	78	78	88	75	84	81
6169025	88	89	98	80	91	85
6169026	84	83	94	77	86	83
6169027	85	87	104	80	92	92
6169028	85	85	99	77	87	85
6169029	85	85	97	80	88	90
Blank	81	81	90	78	87	79
LCS	87	87	100	90	91	83
MS	83	82	99	87	87	90
MSD	90	90	107	92	95	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10362SLK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6169016	99	84	88
6169019	96	86	90
6169020	99	87	92
6169021	98	87	93
6169022	101	87	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Surrogate Quality Control

6169023	96	83	91
6169024	98	87	97
6169025	97	83	95
6169026	93	81	94
6169027	96	88	87
6169028	93	84	87
6169029	93	85	87
Blank	92	82	94
LCS	95	83	97
MS	102	85	92
MSD	99	91	96
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10363SLG026

	N-Nitrosodimethylamine-d6
6169024	143
6169025	141
6169026	143
6169027	142
6169028	86
6169029	105
Blank	104
LCS	110
MS	152*
MSD	151*
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10354A34A

	Trifluorotoluene-F
6169024	91
6169025	89
6169026	85
6169027	81
6169028	92
6169029	81
Blank	90
LCS	91
LCSD	98
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10355B20A

	Trifluorotoluene-F
6169030	83
Blank	83
LCS	113
LCSD	110

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Surrogate Quality Control

Limits: 63-135

Analysis Name: 12b Pesticides by 8081A
Batch number: 103550011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6169017	95	85
6169018	100	98
Blank	90	92
LCS	96	89
LCSD	99	101
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103550012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6169017	114	96
6169018	111	100
Blank	117	85
LCS	110	75
LCSD	106	81
Limits:	30-150	45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103560015A

	Butyraldehyde
6169024	103
6169025	104
6169026	112
6169027	110
6169028	106
6169029	103
Blank	106
LCS	95
MS	109
MSD	100
Limits:	64-126

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103560021A

	2,4-Dichlorophenylacetic acid
6169017	109
6169018	107
Blank	116
LCS	126
LCSD	132
Limits:	35-144

Analysis Name: 12a Pesticides by 8081A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Surrogate Quality Control

Batch number: 103610029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6169016	67	227*
6169019	72	92
6169020	64	76
6169021	47*	36
6169022	62	80
6169023	11*	0*
Blank	68	76
LCS	68	82
MS	60	84
MSD	53	46
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103610033A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6169016	96	116
6169019	89	113
6169020	99	136*
6169021	94	119
6169022	115	150*
6169023	93	113
6169024	98	136*
6169025	91	103
6169026	72	85
6169027	84	100
6169028	84	97
6169029	106	126*
Blank	97	119
LCS	101	123*
LCSD	106	121*
MS	65	63
MSD	78	74
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103620013A

	2,4-Dichlorophenylacetic acid
6169016	76
6169019	103
6169020	108
6169021	107
6169022	111
6169023	104
Blank	87
LCS	95
MS	73
MSD	76
Limits:	36-156

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Surrogate Quality Control

Analysis Name: 20a Energetics by 8330A
Batch number: 103630002A

	2-Nitro-m-xylene
6169024	117
6169025	107
6169026	117
6169027	105
6169028	103
6169029	117
Blank	114
LCS	124
LCSD	114
MS	111
MSD	117
Limits:	80-146

Analysis Name: 25a Alcohols by 8015B
Batch number: 103540003A

	Acetone
6169024	87
6169025	84
6169026	77
6169027	79
6169028	75
6169029	84
Blank	95
LCS	96
MS	84
MSD	85
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103540008A

	Tetramethylene glycol
6169024	86
6169025	52
6169026	85
6169027	37*
6169028	85
6169029	27*
Blank	102
LCS	102
MS	52
MSD	54
Limits:	50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550028A

	n-Triacontane-d62

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226239
Reported: 01/27/11 at 12:46 PM

Surrogate Quality Control

6169024	86
6169025	95
6169026	92
6169027	93
6169028	96
6169029	96
Blank	97
LCS	94
MS	86
MSD	84
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103620026A

	Chlorobenzene	Orthoterphenyl
6169024	73	81
6169025	71	75
6169026	68	75
6169027	61	73
6169028	73	80
6169029	56	78
Blank	75	85
LCS	79	88
MS	76	84
MSD	75	84
Limits:	37-125	47-145

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acct# 13013 Cap# 1226239 sample# 61690016-30

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020/6/7471A	*Hex Chrome EPA 7196*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP08-SA5B-QC-121710	12.17.10	1407	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									surface soil DUP
EB05-SA5B-121710	12.17.10	1235	water	none	6-1 liter ambers			X						X	X			X	X									surface tool rinsate
EB05-SA5B-121710	12.17.10	1235	water	none	1-500 ml poly							X	X			X												surface tool rinsate
EB05-SA5B-121710	12.17.10	1235	water	HNO3	1-500 ml poly						X																	surface tool rinsate
EB01-SIV-121710	12.17.10	1235	water	none	6-1 liter ambers			X						X	X			X	X									sediment tool rinsate
EB01-SIV-121710	12.17.10	1235	water	none	1-500 ml poly							X	X			X												sediment tool rinsate
EB01-SIV-121710	12.17.10	1235	water	HNO3	1-500 ml poly						X																	sediment tool rinsate
SED-014-SIV-SD-0.0-0.5	12.17.10	0844	soil	none	1 x 16 oz. jars & 1 6" sleeves			X			X	X	X	X	X	X		X	X									
SED-012-SIV-SD-0.0-0.5	12.17.10	1024	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-006-SIV-SD-0.0-0.5	12.17.10	1525	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-001-SIV-SD-0.0-0.5	12.17.10	1241	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-004-SIV-SD-0.0-0.5	12.17.10	1142	soil	none	1 x 16 oz. jars & 1 6" sleeves			X			X	X	X	X	X	X		X	X									
SL-282-SA5B-SB-4.0-5.0	12.17.10	1020	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-282-SA5B-SB-4.5	12.17.10	1015	soil	none	5 Encore Samplers	X	X		X																			
SL-282-SA5B-SB-7.5	12.17.10	1024	soil	none	5 Encore Samplers	X	X		X																			
SL-282-SA5B-SB-7.0-8.0	12.17.10	1028	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-4.0-5.0	12.17.10	1230	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-4.5	12.17.10	1225	soil	none	5 Encore Samplers	X	X		X																			
SL-281-SA5B-SB-8.0-9.0	12.17.10	1237	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-8.5	12.17.10	1233	soil	none	5 Encore Samplers	X	X		X																			
SL-026-SA5B-4.0-5.0	12.17.10	1508	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-026-SA5B-4.5	12.17.10	1503	soil	none	5 Encore Samplers	X	X		X																			
SL-026-SA5B-9.0-10	12.17.10	1519	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-026-SA5B-8.5	12.17.10	1513	soil	none	5 Encore Samplers	X	X		X																			
SL-207-SA5B-SS-0.0-0.5	12.17.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-208-SA5B-SS-0.0-0.5	12.17.10	1053	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-276-SA5B-SS-0.0-0.5	12.17.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-210-SA5B-SS-0.0-0.5	12.17.10	1128	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-275-SA5B-SS-0.0-0.5	12.17.10	0945	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-206-SA5B-SS-0.0-0.5	12.17.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-209-SA5B-SS-0.0-0.5	12.17.10	1142	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-161-SA5B-SS-0.0-0.5	12.17.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-162-SA5B-SS-0.0-0.5	12.17.10	0942	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-274-SA5B-SS-0.0-0.5	12.17.10	1128	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-166-SA5B-SS-0.0-0.5	12.17.10	1108	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-160-SA5B-SS-0.0-0.5	12.17.10	1122	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-211-SA5B-SS-0.0-0.5MS	12.17.10	1402	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X									surface soil MS/MSD
SL-278-SA5B-SS-0.0-0.5	12.17.10	1411	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-279-SA5B-SS-0.0-0.5	12.17.10	1428	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-277-SA5B-SS-0.0-0.5	12.17.10	1355	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-273-SA5B-SS-0.0-0.5	12.17.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-272-SA5B-SS-0.0-0.5	12.17.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
TB-121710	12.17.10	0800	water	HCl	4-40 mL clear VOA vials	X	X		X																			trip blank

Relinquished by: (Signature) Date/Time 12.17.10 1700 Received by: (Signature)

Relinquished by: (Signature) Date/Time Received for Laboratory by: (Signature) 12/18/10 1240

Airbill No. 00732992

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/18/2010
Group Number: 1226240
SDG: DX029
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP08-SA5B-QC-121710 Soil	6169031
EB05-SA5B-121710 Water	6169032
EB01-SIV-121710 Water	6169033
SED-014-SIV-SD-0.0-0.5 Sediment	6169034
SED-012-SIV-SD-0.0-0.5 Sediment	6169035
SED-006-SIV-SD-0.0-0.5 Sediment	6169036
SED-001-SIV-SD-0.0-0.5 Sediment	6169037
SED-004-SIV-SD-0.0-0.5 Sediment	6169038
SL-282-SA5B-SB-4.0-5.0 Soil	6169039
SL-282-SA5B-SB-7.0-8.0 Soil	6169040
SL-281-SA5B-SB-4.0-5.0 Soil	6169041
SL-281-SA5B-SB-8.0-9.0 Soil	6169042
SL-026-SA5B-SB-4.0-5.0 Soil	6169043
SL-026-SA5B-SB-9.0-10 Soil	6169044

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP08-SA5B-QC-121710 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169031
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2901 SDG#: DX029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP08-SA5B-QC-121710 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169031
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2901 SDG#: DX029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	2.77	0.0933	1.12	1
11031	12378-PeCDD	40321-76-4	12.4 BQ	0.194	5.61	1
11031	123478-HxCDD	39227-28-6	23.6 B	0.145	5.61	1
11031	123678-HxCDD	57653-85-7	114 B	0.149	5.61	1
11031	123789-HxCDD	19408-74-3	41.9 B	0.143	5.61	1
11031	1234678-HpCDD	35822-46-9	2,720 EB	0.320	5.61	1
11031	OCDD	3268-87-9	26,800 EB	0.278	11.2	1
11031	2378-TCDF	51207-31-9	5.17	0.304	1.12	1
11650	2378-TCDF-Conf	51207-31-9	5.44 B	0.0863	1.12	1
11031	12378-PeCDF	57117-41-6	7.75 B	0.0822	5.61	1
11031	23478-PeCDF	57117-31-4	7.55 B	0.0860	5.61	1
11031	123478-HxCDF	70648-26-9	20.8 B	0.180	5.61	1
11031	123678-HxCDF	57117-44-9	22.8 B	0.163	5.61	1
11031	123789-HxCDF	72918-21-9	4.86 JB	0.198	5.61	1
11031	234678-HxCDF	60851-34-5	41.3 B	0.179	5.61	1
11031	1234678-HpCDF	67562-39-4	483 B	0.111	5.61	1
11031	1234789-HpCDF	55673-89-7	59.8 B	0.148	5.61	1
11031	OCDF	39001-02-0	1,130 B	0.106	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-2378-TCDF-Conf	70	24 - 169
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	83	26 - 123

*=This limit was used in the evaluation of the final result

Sample Description: **DUP08-SA5B-QC-121710 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169031
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2901 SDG#: DX029-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	89	26 - 138
13C12-OCDF	91	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP08-SA5B-QC-121710 Soil**
SSFL Area IV Collocated Soil Sampling
DUP08-SA5B-QC-121710

LLI Sample # SW 6169031
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 14:07

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2901 SDG#: DX029-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 00:21	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11012001	02/06/2011 14:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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Analysis Report

Sample Description: **EB05-SA5B-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5B-121710

LLI Sample # WW 6169032
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2902 SDG#: DX029-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	2.31	U	2.31	2.18	1
10915	12378-PeCDD	40321-76-4	0.462	U	0.462	10.9	1
10915	123478-HxCDD	39227-28-6	0.163	U	0.163	10.9	1
10915	123678-HxCDD	57653-85-7	0.166	U	0.166	10.9	1
10915	123789-HxCDD	19408-74-3	0.250	JBQ	0.179	10.9	1
10915	1234678-HpCDD	35822-46-9	0.726	JBQ	0.214	10.9	1
10915	OCDD	3268-87-9	1.35	JB	0.225	21.8	1
10915	2378-TCDF	51207-31-9	0.188	U	0.188	2.18	1
10915	12378-PeCDF	57117-41-6	0.220	JBQ	0.146	10.9	1
10915	23478-PeCDF	57117-31-4	0.732	JB	0.120	10.9	1
10915	123478-HxCDF	70648-26-9	0.379	JBQ	0.114	10.9	1
10915	123678-HxCDF	57117-44-9	0.332	JBQ	0.111	10.9	1
10915	123789-HxCDF	72918-21-9	0.355	JBQ	0.112	10.9	1
10915	234678-HxCDF	60851-34-5	0.344	JBQ	0.103	10.9	1
10915	1234678-HpCDF	67562-39-4	1.18	JBQ	0.0890	10.9	1
10915	1234789-HpCDF	55673-89-7	0.193	JBQ	0.103	10.9	1
10915	OCDF	39001-02-0	0.858	JBQ	0.233	21.8	1

The recoveries of several labeled compounds were outside QC limits in this sample and the blank and OPR associated with this sample. The sample was re-extracted outside the project specified holding time with all labeled compound recoveries within QC specification. Comparable native compound results were observed between the two extractions.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	4	25 - 164
13C12-12378-PeCDD	27	25 - 181
13C12-123478-HxCDD	45	32 - 141
13C12-123678-HxCDD	43	28 - 130
13C12-123789-HxCDD	40	28 - 130
13C12-1234678-HpCDD	52	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	46	24 - 169
13C12-12378-PeCDF	52	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	52	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	8	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB05-SA5B-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5B-121710

LLI Sample # WW 6169032
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2902 SDG#: DX029-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362001	12/30/2010 22:09	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10362001	12/28/2010 06:30	Ginelle L Haines	1

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Analysis Report

Sample Description: EB01-SIV-121710 Water
SSFL Area IV Collocated Soil Sampling
EB01-SIV-121710

LLI Sample # WW 6169033
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2903 SDG#: DX029-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.546	U	0.546	2.16	1
10915	12378-PeCDD	40321-76-4	0.529	JBQ	0.283	10.8	1
10915	123478-HxCDD	39227-28-6	0.137	U	0.137	10.8	1
10915	123678-HxCDD	57653-85-7	0.185	JBQ	0.144	10.8	1
10915	123789-HxCDD	19408-74-3	0.194	JBQ	0.146	10.8	1
10915	1234678-HpCDD	35822-46-9	1.91	JBQ	0.177	10.8	1
10915	OCDD	3268-87-9	13.7	JB	0.197	21.6	1
10915	2378-TCDF	51207-31-9	0.167	U	0.167	2.16	1
10915	12378-PeCDF	57117-41-6	0.139	JBQ	0.114	10.8	1
10915	23478-PeCDF	57117-31-4	0.626	JB	0.0958	10.8	1
10915	123478-HxCDF	70648-26-9	0.522	JB	0.113	10.8	1
10915	123678-HxCDF	57117-44-9	0.325	JBQ	0.107	10.8	1
10915	123789-HxCDF	72918-21-9	0.252	JBQ	0.108	10.8	1
10915	234678-HxCDF	60851-34-5	0.283	JBQ	0.101	10.8	1
10915	1234678-HpCDF	67562-39-4	1.69	JB	0.0843	10.8	1
10915	1234789-HpCDF	55673-89-7	0.377	JBQ	0.0955	10.8	1
10915	OCDF	39001-02-0	1.41	JBQ	0.198	21.6	1

The recoveries of several labeled compounds were outside QC limits in this sample and the blank and OPR associated with this sample. The sample was re-extracted outside the project specified holding time with all labeled compound recoveries within QC specification. Comparable native compound results were observed between the two extractions.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	16	25 - 164
13C12-12378-PeCDD	48	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	21	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB01-SIV-121710 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SIV-121710

LLI Sample # WW 6169033
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:35

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2903 SDG#: DX029-03EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10362001	12/30/2010 23:05	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10362001	12/28/2010 06:30	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-014-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169034
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2904 SDG#: DX029-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-014-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169034
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2904 SDG#: DX029-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.217 J	0.0620	1.18	1
11031	12378-PeCDD	40321-76-4	2.80 JB	0.107	5.88	1
11031	123478-HxCDD	39227-28-6	8.92 B	0.140	5.88	1
11031	123678-HxCDD	57653-85-7	83.8 B	0.140	5.88	1
11031	123789-HxCDD	19408-74-3	14.7 B	0.141	5.88	1
11031	1234678-HpCDD	35822-46-9	4,430 EB	0.410	5.88	1
11031	OCDD	3268-87-9	49,800 EB	0.354	11.8	1
11031	2378-TCDF	51207-31-9	0.384 JQ	0.111	1.18	1
11031	12378-PeCDF	57117-41-6	0.711 JB	0.0765	5.88	1
11031	23478-PeCDF	57117-31-4	1.14 JB	0.0721	5.88	1
11031	123478-HxCDF	70648-26-9	18.1 B	0.202	5.88	1
11031	123678-HxCDF	57117-44-9	12.4 B	0.191	5.88	1
11031	123789-HxCDF	72918-21-9	2.86 JB	0.235	5.88	1
11031	234678-HxCDF	60851-34-5	12.9 B	0.200	5.88	1
11031	1234678-HpCDF	67562-39-4	455 B	0.176	5.88	1
11031	1234789-HpCDF	55673-89-7	85.3 B	0.219	5.88	1
11031	OCDF	39001-02-0	2,920 B	0.139	11.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SED-014-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169034
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
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Suite 210
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X2904 SDG#: DX029-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	88	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SED-014-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-014-SIV-SD-0.0-0.5

LLI Sample # SW 6169034
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 08:44

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
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Chantilly VA 20151

X2904 SDG#: DX029-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 01:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SED-012-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169035
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2905 SDG#: DX029-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-012-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169035
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2905 SDG#: DX029-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0412	U	0.0412	1.06	1
11031	12378-PeCDD	40321-76-4	0.219	JBQ	0.0464	5.31	1
11031	123478-HxCDD	39227-28-6	0.226	JBQ	0.0497	5.31	1
11031	123678-HxCDD	57653-85-7	0.776	JB	0.0508	5.31	1
11031	123789-HxCDD	19408-74-3	0.401	JB	0.0518	5.31	1
11031	1234678-HpCDD	35822-46-9	15.8	B	0.0505	5.31	1
11031	OCDD	3268-87-9	153	B	0.0494	10.6	1
11031	2378-TCDF	51207-31-9	0.0670	U	0.0670	1.06	1
11031	12378-PeCDF	57117-41-6	0.152	JBQ	0.0305	5.31	1
11031	23478-PeCDF	57117-31-4	0.266	JBQ	0.0251	5.31	1
11031	123478-HxCDF	70648-26-9	0.166	JBQ	0.0350	5.31	1
11031	123678-HxCDF	57117-44-9	0.177	JBQ	0.0299	5.31	1
11031	123789-HxCDF	72918-21-9	0.0960	JB	0.0369	5.31	1
11031	234678-HxCDF	60851-34-5	0.226	JBQ	0.0338	5.31	1
11031	1234678-HpCDF	67562-39-4	2.37	JB	0.0340	5.31	1
11031	1234789-HpCDF	55673-89-7	0.213	JB	0.0454	5.31	1
11031	OCDF	39001-02-0	5.17	JB	0.0334	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	86	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-012-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169035
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2905 SDG#: DX029-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-012-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-012-SIV-SD-0.0-0.5

LLI Sample # SW 6169035
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:24

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2905 SDG#: DX029-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	02/07/2011 21:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-006-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169036
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2906 SDG#: DX029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	19.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-006-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169036
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2906 SDG#: DX029-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0794	JQ	0.0486	1.25	1
11031	12378-PeCDD	40321-76-4	0.0831	U	0.0831	6.24	1
11031	123478-HxCDD	39227-28-6	0.375	JB	0.0876	6.24	1
11031	123678-HxCDD	57653-85-7	1.69	JB	0.0875	6.24	1
11031	123789-HxCDD	19408-74-3	1.51	JB	0.0883	6.24	1
11031	1234678-HpCDD	35822-46-9	29.0	B	0.0773	6.24	1
11031	OCDD	3268-87-9	259	B	0.0858	12.5	1
11031	2378-TCDF	51207-31-9	1.10	J	0.147	1.25	1
11031	12378-PeCDF	57117-41-6	1.38	JB	0.0592	6.24	1
11031	23478-PeCDF	57117-31-4	1.28	JB	0.0603	6.24	1
11031	123478-HxCDF	70648-26-9	0.544	JB	0.0714	6.24	1
11031	123678-HxCDF	57117-44-9	0.594	JB	0.0659	6.24	1
11031	123789-HxCDF	72918-21-9	1.03	JB	0.0748	6.24	1
11031	234678-HxCDF	60851-34-5	0.615	JB	0.0695	6.24	1
11031	1234678-HpCDF	67562-39-4	4.64	JB	0.0543	6.24	1
11031	1234789-HpCDF	55673-89-7	0.395	JBQ	0.0760	6.24	1
11031	OCDF	39001-02-0	9.52	JB	0.0597	12.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-006-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169036
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2906 SDG#: DX029-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-006-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-006-SIV-SD-0.0-0.5

LLI Sample # SW 6169036
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:25

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2906 SDG#: DX029-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 06:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-001-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169037
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2907 SDG#: DX029-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-001-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169037
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2907 SDG#: DX029-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0787	J	0.0567	1.14	1
11031	12378-PeCDD	40321-76-4	0.0919	U	0.0919	5.69	1
11031	123478-HxCDD	39227-28-6	0.500	JB	0.0714	5.69	1
11031	123678-HxCDD	57653-85-7	1.56	JB	0.0747	5.69	1
11031	123789-HxCDD	19408-74-3	1.21	JB	0.0709	5.69	1
11031	1234678-HpCDD	35822-46-9	27.7	B	0.0706	5.69	1
11031	OCDD	3268-87-9	236	B	0.0587	11.4	1
11031	2378-TCDF	51207-31-9	1.74		0.154	1.14	1
11650	2378-TCDF-Conf	51207-31-9	1.76	B	0.0584	1.14	1
11031	12378-PeCDF	57117-41-6	11.7	B	0.0613	5.69	1
11031	23478-PeCDF	57117-31-4	1.66	JB	0.0580	5.69	1
11031	123478-HxCDF	70648-26-9	1.12	JB	0.0610	5.69	1
11031	123678-HxCDF	57117-44-9	1.03	JB	0.0576	5.69	1
11031	123789-HxCDF	72918-21-9	0.563	JB	0.0625	5.69	1
11031	234678-HxCDF	60851-34-5	0.673	JB	0.0596	5.69	1
11031	1234678-HpCDF	67562-39-4	4.60	JB	0.0356	5.69	1
11031	1234789-HpCDF	55673-89-7	0.421	JBQ	0.0485	5.69	1
11031	OCDF	39001-02-0	4.93	JB	0.0487	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-001-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169037
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2907 SDG#: DX029-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-001-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-001-SIV-SD-0.0-0.5

LLI Sample # SW 6169037
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:41

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2907 SDG#: DX029-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 07:11	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11012001	02/06/2011 15:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-004-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169038
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2908 SDG#: DX029-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	19.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-004-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169038
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2908 SDG#: DX029-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0360	U	0.0360	1.24	1
11031	12378-PeCDD	40321-76-4	0.209	JBQ	0.0458	6.19	1
11031	123478-HxCDD	39227-28-6	0.231	JB	0.0691	6.19	1
11031	123678-HxCDD	57653-85-7	0.850	JB	0.0715	6.19	1
11031	123789-HxCDD	19408-74-3	0.590	JB	0.0725	6.19	1
11031	1234678-HpCDD	35822-46-9	21.9	B	0.0610	6.19	1
11031	OCDD	3268-87-9	240	B	0.0682	12.4	1
11031	2378-TCDF	51207-31-9	0.0552	U	0.0552	1.24	1
11031	12378-PeCDF	57117-41-6	0.480	JB	0.0295	6.19	1
11031	23478-PeCDF	57117-31-4	0.283	JB	0.0295	6.19	1
11031	123478-HxCDF	70648-26-9	0.525	JB	0.0557	6.19	1
11031	123678-HxCDF	57117-44-9	0.521	JB	0.0485	6.19	1
11031	123789-HxCDF	72918-21-9	0.224	JB	0.0624	6.19	1
11031	234678-HxCDF	60851-34-5	0.660	JB	0.0548	6.19	1
11031	1234678-HpCDF	67562-39-4	17.4	B	0.0458	6.19	1
11031	1234789-HpCDF	55673-89-7	0.825	JB	0.0632	6.19	1
11031	OCDF	39001-02-0	52.6	B	0.0569	12.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-004-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169038
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2908 SDG#: DX029-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SED-004-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-004-SIV-SD-0.0-0.5

LLI Sample # SW 6169038
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 11:42

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2908 SDG#: DX029-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 08:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10354162401B	12/20/2010 16:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-282-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169039
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2909 SDG#: DX029-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-282-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169039
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2909 SDG#: DX029-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0567	U	0.0567	1.09	1
11031	12378-PeCDD	40321-76-4	0.118	JBQ	0.0466	5.47	1
11031	123478-HxCDD	39227-28-6	0.0465	JBQ	0.0371	5.47	1
11031	123678-HxCDD	57653-85-7	0.144	JB	0.0374	5.47	1
11031	123789-HxCDD	19408-74-3	0.182	JBQ	0.0373	5.47	1
11031	1234678-HpCDD	35822-46-9	1.02	JB	0.0686	5.47	1
11031	OCDD	3268-87-9	13.4	B	0.0501	10.9	1
11031	2378-TCDF	51207-31-9	0.0693	JQ	0.0575	1.09	1
11031	12378-PeCDF	57117-41-6	0.125	JB	0.0292	5.47	1
11031	23478-PeCDF	57117-31-4	0.140	JBQ	0.0282	5.47	1
11031	123478-HxCDF	70648-26-9	0.144	JBQ	0.0359	5.47	1
11031	123678-HxCDF	57117-44-9	0.124	JBQ	0.0329	5.47	1
11031	123789-HxCDF	72918-21-9	0.263	JB	0.0397	5.47	1
11031	234678-HxCDF	60851-34-5	0.192	JBQ	0.0353	5.47	1
11031	1234678-HpCDF	67562-39-4	0.645	JB	0.0303	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0727	JBQ	0.0385	5.47	1
11031	OCDF	39001-02-0	0.785	JB	0.0617	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-282-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169039
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2909 SDG#: DX029-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-282-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-4.0-5.0

LLI Sample # SW 6169039
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:20

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2909 SDG#: DX029-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 09:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-282-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169040
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2910 SDG#: DX029-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-282-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169040
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2910 SDG#: DX029-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0503	U	0.0503	1.10	1
11031	12378-PeCDD	40321-76-4	0.0462	U	0.0462	5.48	1
11031	123478-HxCDD	39227-28-6	0.0353	JBQ	0.0318	5.48	1
11031	123678-HxCDD	57653-85-7	0.0973	JBQ	0.0345	5.48	1
11031	123789-HxCDD	19408-74-3	0.146	JBQ	0.0323	5.48	1
11031	1234678-HpCDD	35822-46-9	0.415	JB	0.0482	5.48	1
11031	OCDD	3268-87-9	1.60	JB	0.0475	11.0	1
11031	2378-TCDF	51207-31-9	0.0826	JQ	0.0508	1.10	1
11031	12378-PeCDF	57117-41-6	0.0757	JB	0.0255	5.48	1
11031	23478-PeCDF	57117-31-4	0.0842	JB	0.0244	5.48	1
11031	123478-HxCDF	70648-26-9	0.0919	JB	0.0283	5.48	1
11031	123678-HxCDF	57117-44-9	0.0951	JBQ	0.0254	5.48	1
11031	123789-HxCDF	72918-21-9	0.152	JBQ	0.0304	5.48	1
11031	234678-HxCDF	60851-34-5	0.142	JB	0.0280	5.48	1
11031	1234678-HpCDF	67562-39-4	0.469	JB	0.0237	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0590	JB	0.0308	5.48	1
11031	OCDF	39001-02-0	0.331	JBQ	0.0484	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	89	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-282-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169040
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2910 SDG#: DX029-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-282-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-282-SA5B-SB-7.0-8.0

LLI Sample # SW 6169040
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 10:28

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2910 SDG#: DX029-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 10:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-281-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169041
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2911 SDG#: DX029-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-281-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169041
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2911 SDG#: DX029-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0523	U	0.0523	1.19	1
11031	12378-PeCDD	40321-76-4	0.0484	U	0.0484	5.97	1
11031	123478-HxCDD	39227-28-6	0.0381	U	0.0381	5.97	1
11031	123678-HxCDD	57653-85-7	0.0948	JB	0.0387	5.97	1
11031	123789-HxCDD	19408-74-3	0.109	JB	0.0370	5.97	1
11031	1234678-HpCDD	35822-46-9	0.625	JB	0.0600	5.97	1
11031	OCDD	3268-87-9	2.34	JB	0.0472	11.9	1
11031	2378-TCDF	51207-31-9	0.0688	U	0.0688	1.19	1
11031	12378-PeCDF	57117-41-6	0.0767	JBQ	0.0294	5.97	1
11031	23478-PeCDF	57117-31-4	0.135	JB	0.0307	5.97	1
11031	123478-HxCDF	70648-26-9	0.130	JBQ	0.0276	5.97	1
11031	123678-HxCDF	57117-44-9	0.0748	JB	0.0243	5.97	1
11031	123789-HxCDF	72918-21-9	0.217	JBQ	0.0329	5.97	1
11031	234678-HxCDF	60851-34-5	0.127	JBQ	0.0270	5.97	1
11031	1234678-HpCDF	67562-39-4	0.454	JB	0.0231	5.97	1
11031	1234789-HpCDF	55673-89-7	0.0894	JB	0.0309	5.97	1
11031	OCDF	39001-02-0	0.399	JBQ	0.0613	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-281-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169041
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2911 SDG#: DX029-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-281-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-4.0-5.0

LLI Sample # SW 6169041
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:30

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2911 SDG#: DX029-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 10:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-281-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169042
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2912 SDG#: DX029-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-281-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169042
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2912 SDG#: DX029-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0449	U	0.0449	1.14	1
11031	12378-PeCDD	40321-76-4	0.0821	JB	0.0636	5.71	1
11031	123478-HxCDD	39227-28-6	0.0402	U	0.0402	5.71	1
11031	123678-HxCDD	57653-85-7	0.286	JB	0.0412	5.71	1
11031	123789-HxCDD	19408-74-3	0.441	JB	0.0402	5.71	1
11031	1234678-HpCDD	35822-46-9	0.797	JB	0.0628	5.71	1
11031	OCDD	3268-87-9	4.41	JB	0.0505	11.4	1
11031	2378-TCDF	51207-31-9	0.0594	U	0.0594	1.14	1
11031	12378-PeCDF	57117-41-6	0.0816	JBQ	0.0295	5.71	1
11031	23478-PeCDF	57117-31-4	0.138	JBQ	0.0299	5.71	1
11031	123478-HxCDF	70648-26-9	0.0812	JB	0.0354	5.71	1
11031	123678-HxCDF	57117-44-9	0.0979	JBQ	0.0318	5.71	1
11031	123789-HxCDF	72918-21-9	0.301	JB	0.0394	5.71	1
11031	234678-HxCDF	60851-34-5	0.151	JBQ	0.0345	5.71	1
11031	1234678-HpCDF	67562-39-4	0.491	JB	0.0225	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0860	JB	0.0322	5.71	1
11031	OCDF	39001-02-0	0.458	JBQ	0.0551	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-281-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169042
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2912 SDG#: DX029-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-281-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-281-SA5B-SB-8.0-9.0

LLI Sample # SW 6169042
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 12:37

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2912 SDG#: DX029-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 11:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169043
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2913 SDG#: DX029-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169043
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2913 SDG#: DX029-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0396 U	0.0396	1.12	1
11031	12378-PeCDD	40321-76-4	0.0710 JBQ	0.0445	5.62	1
11031	123478-HxCDD	39227-28-6	0.0382 JBQ	0.0290	5.62	1
11031	123678-HxCDD	57653-85-7	0.0518 JBQ	0.0292	5.62	1
11031	123789-HxCDD	19408-74-3	0.0290 U	0.0290	5.62	1
11031	1234678-HpCDD	35822-46-9	0.324 JB	0.0399	5.62	1
11031	OCDD	3268-87-9	1.25 JB	0.0466	11.2	1
11031	2378-TCDF	51207-31-9	0.0364 U	0.0364	1.12	1
11031	12378-PeCDF	57117-41-6	0.0306 JB	0.0214	5.62	1
11031	23478-PeCDF	57117-31-4	0.0833 JB	0.0217	5.62	1
11031	123478-HxCDF	70648-26-9	0.0737 JBQ	0.0201	5.62	1
11031	123678-HxCDF	57117-44-9	0.0466 JB	0.0181	5.62	1
11031	123789-HxCDF	72918-21-9	0.0703 JBQ	0.0229	5.62	1
11031	234678-HxCDF	60851-34-5	0.117 JB	0.0202	5.62	1
11031	1234678-HpCDF	67562-39-4	0.422 JB	0.0181	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0561 JBQ	0.0252	5.62	1
11031	OCDF	39001-02-0	0.430 JBQ	0.0520	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-026-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169043
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2913 SDG#: DX029-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-026-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-4.0-5.0

LLI Sample # SW 6169043
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:08

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2913 SDG#: DX029-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 12:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5B-SB-9.0-10 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169044
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2914 SDG#: DX029-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5B-SB-9.0-10 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169044
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2914 SDG#: DX029-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0404 U	0.0404	1.09	1
11031	12378-PeCDD	40321-76-4	0.0558 JBQ	0.0381	5.46	1
11031	123478-HxCDD	39227-28-6	0.0301 U	0.0301	5.46	1
11031	123678-HxCDD	57653-85-7	0.0607 JBQ	0.0324	5.46	1
11031	123789-HxCDD	19408-74-3	0.0935 JBQ	0.0308	5.46	1
11031	1234678-HpCDD	35822-46-9	0.293 JB	0.0418	5.46	1
11031	OCDD	3268-87-9	1.26 JB	0.0464	10.9	1
11031	2378-TCDF	51207-31-9	0.0424 U	0.0424	1.09	1
11031	12378-PeCDF	57117-41-6	0.0518 JBQ	0.0203	5.46	1
11031	23478-PeCDF	57117-31-4	0.108 JBQ	0.0202	5.46	1
11031	123478-HxCDF	70648-26-9	0.0869 JBQ	0.0237	5.46	1
11031	123678-HxCDF	57117-44-9	0.0610 JB	0.0226	5.46	1
11031	123789-HxCDF	72918-21-9	0.0646 JBQ	0.0262	5.46	1
11031	234678-HxCDF	60851-34-5	0.160 JBQ	0.0230	5.46	1
11031	1234678-HpCDF	67562-39-4	0.425 JB	0.0195	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0481 JBQ	0.0246	5.46	1
11031	OCDF	39001-02-0	0.365 JB	0.0471	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5B-SB-9.0-10 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169044
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2914 SDG#: DX029-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-026-SA5B-SB-9.0-10 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5B-SB-9.0-10

LLI Sample # SW 6169044
LLI Group # 1226240
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/17/2010 15:19

Submitted: 12/18/2010 12:40
Reported: 02/24/2011 22:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2914 SDG#: DX029-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11012001	01/28/2011 13:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11012001	01/12/2011 13:35	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401A	01/11/2011 17:56	Scott W Freisher	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226240
Reported: 02/24/11 at 10:38 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10354162401B	Sample number(s): 6169031,6169034-6169038									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11011162401A	Sample number(s): 6169039-6169044									
28a Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10362001	Sample number(s): 6169032-6169033									
2378-TCDD	2.81		1.76	2.00	pg/l	89		67-158		
12378-PeCDD	0.684	J	0.492	10.0	pg/l	96		70-142		
123478-HxCDD	0.485	J	0.235	10.0	pg/l	106		70-164		
123678-HxCDD	0.512	J	0.243	10.0	pg/l	104		76-134		
123789-HxCDD	0.483	J	0.269	10.0	pg/l	106		64-162		
1234678-HpCDD	1.35	J	0.246	10.0	pg/l	108		70-140		
OCDD	2.39	J	0.274	20.0	pg/l	118		78-144		
2378-TCDF	0.181	J	0.166	2.00	pg/l	95		75-158		
12378-PeCDF	0.474	J	0.125	10.0	pg/l	104		80-134		
23478-PeCDF	0.810	J	0.113	10.0	pg/l	102		68-160		
123478-HxCDF	0.599	J	0.136	10.0	pg/l	111		72-134		
123678-HxCDF	0.568	J	0.132	10.0	pg/l	113		84-130		
123789-HxCDF	0.637	J	0.143	10.0	pg/l	111		78-130		
234678-HxCDF	0.505	J	0.136	10.0	pg/l	109		70-156		
1234678-HpCDF	1.41	J	0.122	10.0	pg/l	116		82-122		
1234789-HpCDF	0.582	J	0.148	10.0	pg/l	117		78-138		
OCDF	1.43	J	0.269	20.0	pg/l	122		63-170		
Batch number: 11012001	Sample number(s): 6169031,6169034-6169044									
2378-TCDD	0.0393	U	0.0393	1.00	ng/kg	102		67-158		
12378-PeCDD	0.199	J	0.0435	5.00	ng/kg	101		70-142		
123478-HxCDD	0.147	J	0.0378	5.00	ng/kg	99		70-164		
123678-HxCDD	0.162	J	0.0378	5.00	ng/kg	101		76-134		
123789-HxCDD	0.167	J	0.0372	5.00	ng/kg	98		64-162		
1234678-HpCDD	0.437	J	0.0525	5.00	ng/kg	100		70-140		
OCDD	1.37	J	0.0491	10.0	ng/kg	100		78-144		
2378-TCDF	0.0396	U	0.0396	1.00	ng/kg	106		75-158		
2378-TCDF-Conf	0.0679	J	0.0199	1.00	ng/kg					
12378-PeCDF	0.199	J	0.0246	5.00	ng/kg	99		80-134		
23478-PeCDF	0.230	J	0.0245	5.00	ng/kg	101		68-160		
123478-HxCDF	0.209	J	0.0352	5.00	ng/kg	99		72-134		
123678-HxCDF	0.226	J	0.0317	5.00	ng/kg	98		84-130		
123789-HxCDF	0.206	J	0.0395	5.00	ng/kg	98		78-130		
234678-HxCDF	0.207	J	0.0339	5.00	ng/kg	98		70-156		
1234678-HpCDF	1.49	J	0.0429	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.200	J	0.0602	5.00	ng/kg	98		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226240
Reported: 02/24/11 at 10:38 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.495	J	0.0525	10.0	ng/kg	99		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10354162401B	Sample number(s): 6169031,6169034-6169038 BKG: P158227								
28a Moisture Content by 160.3						12.4	12.9	3	20
Batch number: 11011162401A	Sample number(s): 6169039-6169044 BKG: P167523								
28a Moisture Content by 160.3						9.7	9.7	0	20
Batch number: 11012001	Sample number(s): 6169031,6169034-6169044 UNSPK: P172048								
2378-TCDD	106	105	67-158	1	25				
12378-PeCDD	106	104	70-142	2	25				
123478-HxCDD	106	101	70-164	5	25				
123678-HxCDD	102	102	76-134	0	25				
123789-HxCDD	103	99	64-162	5	25				
1234678-HpCDD	104	100	70-140	4	25				
OCDD	110	100	78-144	8	25				
2378-TCDF	115	108	75-158	6	25				
12378-PeCDF	103	102	80-134	2	25				
23478-PeCDF	105	102	68-160	3	25				
123478-HxCDF	103	99	72-134	4	25				
123678-HxCDF	103	100	84-130	3	25				
123789-HxCDF	102	98	78-130	5	25				
234678-HxCDF	102	100	70-156	2	25				
1234678-HpCDF	102	99	82-122	3	25				
1234789-HpCDF	102	99	78-138	3	25				
OCDF	105	103	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 10362001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6169032	4*	58	49	48	52	53
6169033	16*	67	61	60	63	66
Blank	6*	70	67	66	66	69
OPR	10*	63	56	55	57	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226240
Reported: 02/24/11 at 10:38 PM

Surrogate Quality Control

6169032	52	53	49	8*	27	45
6169033	63	63	58	21*	48	59
Blank	64	61	54	11*	32	58
OPR	55	54	48	17*	37	52
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6169032	43	40	52	51	46	52
6169033	56	56	64	60	52	63
Blank	54	49	63	55	57	68
OPR	50	46	56	48	51	60
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11012001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6169031	85	89	79	83	80	85
6169034	75	83	77	79	77	79
6169035	66	78	68	78	74	79
6169036	70	79	74	78	75	86
6169037	73	79	76	78	76	85
6169038	67	74	67	72	67	71
6169039	69	79	72	75	73	77
6169040	71	90	79	84	78	85
6169041	70	80	71	78	71	72
6169042	67	71	67	73	67	73
6169043	68	77	71	78	72	77
6169044	69	77	69	72	70	77
Blank	76	80	76	82	78	83
MS	66	76	70	74	70	70
MSD	85	96	85	90	87	99
OPR	73	72	73	77	74	80
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6169031	94	89	91	94	91	87
6169034	85	84	88	87	83	83
6169035	89	88	86	80	77	85
6169036	87	83	83	87	80	81
6169037	84	81	80	91	80	79
6169038	80	72	71	86	74	74
6169039	85	80	78	89	78	77
6169040	95	90	89	95	88	87
6169041	88	77	75	88	82	78
6169042	81	70	66	85	72	74
6169043	85	75	69	86	79	79
6169044	75	75	72	85	77	74
Blank	96	86	83	95	83	85
MS	84	75	73	82	77	75

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226240
Reported: 02/24/11 at 10:38 PM

Surrogate Quality Control

MSD	101	97	93	97	96	92
OPR	90	79	75	89	77	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6169031	86	88	99	108	82	91
6169034	82	82	94	104	77	82
6169035	89	81	84	89	62	68
6169036	80	79	88	89	73	82
6169037	81	79	86	85	76	81
6169038	72	72	79	78	69	78
6169039	77	76	85	84	72	79
6169040	84	85	96	96	78	89
6169041	77	79	86	86	72	84
6169042	73	73	77	75	70	76
6169043	77	79	82	79	71	81
6169044	72	73	77	76	71	78
Blank	86	86	96	95	75	83
MS	76	75	81	82	68	78
MSD	93	94	102	102	86	98
OPR	81	81	89	86	71	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6169031	70
6169034	
6169035	
6169036	
6169037	71
6169038	
6169039	
6169040	
6169041	
6169042	
6169043	
6169044	
Blank	78
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cup#1226240 sample#6169031-44

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP08-SA5B-QC-121710	12.17.10	1407	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									surface soil DUP
EB05-SA5B-121710	12.17.10	1235	water	none	6-1 liter ambers			X						X	X			X	X									surface tool rinsate
EB05-SA5B-121710	12.17.10	1235	water	none	1-500 ml poly							X	X			X												surface tool rinsate
EB05-SA5B-121710	12.17.10	1235	water	HNO3	1-500 ml poly						X																	surface tool rinsate
EB01-SIV-121710	12.17.10	1235	water	none	6-1 liter ambers			X						X	X			X	X									sediment tool rinsate
EB01-SIV-121710	12.17.10	1235	water	none	1-500 ml poly							X	X			X												sediment tool rinsate
EB01-SIV-121710	12.17.10	1235	water	HNO3	1-500 ml poly						X																	sediment tool rinsate
SED-014-SIV-SD-0.0-0.5	12.17.10	0844	soil	none	1 x 16 oz. jars & 1 6" sleeves			X			X	X	X	X	X	X		X	X									
SED-012-SIV-SD-0.0-0.5	12.17.10	1024	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-006-SIV-SD-0.0-0.5	12.17.10	1525	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-001-SIV-SD-0.0-0.5	12.17.10	1241	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-004-SIV-SD-0.0-0.5	12.17.10	1142	soil	none	1 x 16 oz. jars & 1 6" sleeves			X			X	X	X	X	X	X		X	X									
SL-282-SA5B-SB-4.0-5.0	12.17.10	1020	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-282-SA5B-SB-4.5	12.17.10	1015	soil	none	5 Encore Samplers	X	X		X																				
SL-282-SA5B-SB-7.5	12.17.10	1024	soil	none	5 Encore Samplers	X	X		X																				
SL-282-SA5B-SB-7.0-8.0	12.17.10	1028	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-4.0-5.0	12.17.10	1230	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-4.5	12.17.10	1225	soil	none	5 Encore Samplers	X	X		X																				
SL-281-SA5B-SB-8.0-9.0	12.17.10	1237	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-281-SA5B-SB-8.5	12.17.10	1233	soil	none	5 Encore Samplers	X	X		X																				
SL-026-SA5B-4.0-5.0	12.17.10	1508	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-026-SA5B-4.5	12.17.10	1503	soil	none	5 Encore Samplers	X	X		X																				
SL-026-SA5B-9.0-10	12.17.10	1519	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-026-SA5B-9.5	12.17.10	1513	soil	none	5 Encore Samplers	X	X		X																				
SL-207-SA5B-SS-0.0-0.5	12.17.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-208-SA5B-SS-0.0-0.5	12.17.10	1053	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-276-SA5B-SS-0.0-0.5	12.17.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-210-SA5B-SS-0.0-0.5	12.17.10	1128	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-275-SA5B-SS-0.0-0.5	12.17.10	0945	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-206-SA5B-SS-0.0-0.5	12.17.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-209-SA5B-SS-0.0-0.5	12.17.10	1142	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-161-SA5B-SS-0.0-0.5	12.17.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-162-SA5B-SS-0.0-0.5	12.17.10	0942	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-274-SA5B-SS-0.0-0.5	12.17.10	1128	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-166-SA5B-SS-0.0-0.5	12.17.10	1108	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-160-SA5B-SS-0.0-0.5	12.17.10	1122	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-211-SA5B-SS-0.0-0.5MS	12.17.10	1402	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X									surface soil MS/MSD
SL-278-SA5B-SS-0.0-0.5	12.17.10	1411	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-279-SA5B-SS-0.0-0.5	12.17.10	1428	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-277-SA5B-SS-0.0-0.5	12.17.10	1355	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-273-SA5B-SS-0.0-0.5	12.17.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-272-SA5B-SS-0.0-0.5	12.17.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
TB-121710	12.17.10	0800	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature) | Date/Time 12.17.10 1700 | Received for Laboratory by: (Signature) | Date/Time 12/18/10 1240

Relinquished by: (Signature) | Date/Time | Airbill No. 00732992

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 5

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/22/2010
Group Number: 1226679
SDG: DE047
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP09-SA5B-QC-122010 Soil	6172055
EB06-SA5B-122010 Water	6172056
SL-212-SA5B-SS-0.0-0.5 Soil	6172057
SL-213-SA5B-SS-0.0-0.5 Soil	6172058
SL-214-SA5B-SS-0.0-0.5 Soil	6172059
SL-215-SA5B-SS-0.0-0.5 Soil	6172060
SL-215-SA5B-SS-0.0-0.5MS Soil	6172061
SL-215-SA5B-SS-0.0-0.5MSD Soil	6172062
SL-215-SA5B-SS-0.0-0.5DUP Soil	6172063
SL-216-SA5B-SS-0.0-0.5 Soil	6172064
SL-217-SA5B-SS-0.0-0.5 Soil	6172065
SL-255-SA5B-SS-0.0-0.5 Soil	6172066

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP09-SA5B-QC-122010 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172055
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP09 SDG#: DE047-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	250	U	250	760	1
04688	Benzidine	92-87-5	1,800	U	1,800	5,100	1
04688	Benzo(a)anthracene	56-55-3	28	J	25	250	1
04688	Benzo(a)pyrene	50-32-8	60	J	25	250	1
04688	Benzo(b)fluoranthene	205-99-2	180	J	25	250	1
04688	Benzo(g,h,i)perylene	191-24-2	86	J	25	250	1
04688	Benzoic acid	65-85-0	250	U	250	760	1
04688	Benzyl alcohol	100-51-6	250	U	250	760	1
04688	4-Bromophenyl-phenylether	101-55-3	25	U	25	250	1
04688	Butylbenzylphthalate	85-68-7	25	U	25	250	1
04688	Di-n-butylphthalate	84-74-2	25	U	25	250	1
04688	Carbazole	86-74-8	25	U	25	250	1
04688	4-Chloro-3-methylphenol	59-50-7	51	U	51	250	1
04688	4-Chloroaniline	106-47-8	100	U	100	250	1
04688	bis(2-Chloroethoxy)methane	111-91-1	25	U	25	250	1
04688	bis(2-Chloroethyl)ether	111-44-4	25	U	25	250	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	25	U	25	250	1
04688	2-Chloronaphthalene	91-58-7	25	U	25	250	1
04688	2-Chlorophenol	95-57-8	25	U	25	250	1
04688	4-Chlorophenyl-phenylether	7005-72-3	51	U	51	250	1
04688	Chrysene	218-01-9	120	J	25	250	1
04688	Dibenzofuran	132-64-9	25	U	25	250	1
04688	1,2-Dichlorobenzene	95-50-1	25	U	25	250	1
04688	1,3-Dichlorobenzene	541-73-1	25	U	25	250	1
04688	1,4-Dichlorobenzene	106-46-7	25	U	25	250	1
04688	3,3'-Dichlorobenzidine	91-94-1	150	U	150	510	1
04688	2,4-Dichlorophenol	120-83-2	25	U	25	250	1
04688	Diethylphthalate	84-66-2	25	U	25	250	1
04688	2,4-Dimethylphenol	105-67-9	51	U	51	250	1
04688	3,5-Dimethylphenol	108-68-9	51	U	51	250	1
04688	Dimethylphthalate	131-11-3	25	U	25	250	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	250	U	250	760	1
04688	2,4-Dinitrophenol	51-28-5	1,000	U	1,000	3,000	1
04688	2,4-Dinitrotoluene	121-14-2	51	U	51	250	1
04688	2,6-Dinitrotoluene	606-20-2	25	U	25	250	1
04688	1,2-Diphenylhydrazine	122-66-7	25	U	25	250	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	58	J	25	510	1
04688	Fluoranthene	206-44-0	64	J	25	250	1
04688	Hexachlorobenzene	118-74-1	25	U	25	250	1
04688	Hexachlorobutadiene	87-68-3	100	U	100	250	1
04688	Hexachlorocyclopentadiene	77-47-4	250	U	250	760	1
04688	Hexachloroethane	67-72-1	25	U	25	250	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	100	J	25	250	1
04688	Isophorone	78-59-1	25	U	25	250	1
04688	2-Methylnaphthalene	91-57-6	29	J	25	250	1
04688	2-Methylphenol	95-48-7	51	U	51	250	1
04688	4-Methylphenol	106-44-5	51	U	51	250	1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: DUP09-SA5B-QC-122010 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172055
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP09 SDG#: DE047-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	25	U	25	250	1
04688	3-Nitroaniline	99-09-2	51	U	51	250	1
04688	4-Nitroaniline	100-01-6	100	U	100	250	1
04688	Nitrobenzene	98-95-3	25	U	25	250	1
04688	2-Nitrophenol	88-75-5	25	U	25	250	1
04688	4-Nitrophenol	100-02-7	250	U	250	760	1
04688	N-Nitroso-di-n-propylamine	621-64-7	25	U	25	250	1
04688	N-Nitrosodiphenylamine	86-30-6	25	U	25	250	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	25	U	25	250	1
04688	Pentachlorophenol	87-86-5	250	U	250	760	1
04688	Phenanthrene	85-01-8	45	J	25	250	1
04688	Phenol	108-95-2	25	U	25	250	1
04688	Pyrene	129-00-0	53	J	25	250	1
04688	1,2,4-Trichlorobenzene	120-82-1	25	U	25	250	1
04688	2,4,5-Trichlorophenol	95-95-4	51	U	51	250	1
04688	2,4,6-Trichlorophenol	88-06-2	51	U	51	250	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	5.1	U	5.1	13	5
10138	Acenaphthylene	208-96-8	2.5	U	2.5	13	5
10138	Anthracene	120-12-7	3.9	J	2.5	13	5
10138	Benzo(k)fluoranthene	207-08-9	5.1	U	5.1	13	5
10138	Dibenz(a,h)anthracene	53-70-3	5.1	U	5.1	13	5
10138	Fluorene	86-73-7	5.1	U	5.1	13	5
10138	1-Methylnaphthalene	90-12-0	11	J	5.1	13	5
10138	Naphthalene	91-20-3	9.1	J	5.1	13	5
10138	N-Nitrosodimethylamine	62-75-9	5.1	U	5.1	13	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.8	U	1.8	5.5	1
10401	Dalapon	75-99-0	6.7	U	6.7	14	1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6	1
10401	Dicamba	1918-00-9	0.61	U	0.61	1.8	1
10401	Dinoseb	88-85-7	1.2	U	1.2	3.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.2	U	1.2	2.6	1
10401	MCPA	94-74-6	120	U	120	380	1
10401	MCPP (Mecoprop)	93-65-2	130	J	110	380	1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.26	1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.26	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the						

Sample Description: **DUP09-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172055
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP09 SDG#: DE047-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.10	U	0.10	0.25	1
01363	Alpha BHC	319-84-6	0.052	U	0.052	0.25	1
01363	Beta BHC	319-85-7	1.3		0.091	0.25	1
01363	Gamma BHC - Lindane	58-89-9	0.092	U	0.092	0.25	1
01363	Chlordane	57-74-9	4.1	U	4.1	5.2	1
01363	p,p-DDD	72-54-8	0.16	U	0.16	0.52	1
01363	p,p-DDE	72-55-9	1.8	U	1.8	1.8	1
01363	p,p-DDT	50-29-3	3.2		0.50	2.6	5
01363	Delta BHC	319-86-8	0.072	J	0.055	0.25	1
01363	Dieldrin	60-57-1	0.44	U	0.44	0.52	1
01363	Endosulfan I	959-98-8	0.067	U	0.067	0.25	1
01363	Endosulfan II	33213-65-9	0.25	U	0.25	0.52	1
01363	Endosulfan Sulfate	1031-07-8	0.10	U	0.10	0.52	1
01363	Endrin	72-20-8	0.10	U	0.10	0.52	1
01363	Endrin Aldehyde	7421-93-4	0.71	U	0.71	0.71	1
01363	Endrin Ketone	53494-70-5	0.10	U	0.10	0.52	1
01363	Heptachlor	76-44-8	0.091	U	0.091	0.25	1
01363	Heptachlor Epoxide	1024-57-3	0.23	U	0.23	0.25	1
01363	Methoxychlor	72-43-5	0.52	U	0.52	2.5	1
01363	Mirex	2385-85-5	0.28	U	0.28	0.52	1
01363	Toxaphene	8001-35-2	3.3	U	3.3	10	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	3.0	U	3.0	10	2
10225	Aroclor 5442	12642-23-8	3.0	U	3.0	10	2
10225	Aroclor 5460	11126-42-4	16		3.0	10	2
10225	PCB-1016	12674-11-2	1.0	U	1.0	5.2	2
10225	PCB-1221	11104-28-2	1.5	U	1.5	5.2	2
10225	PCB-1232	11141-16-5	1.6	U	1.6	5.2	2
10225	PCB-1242	53469-21-9	1.5	U	1.5	5.2	2
10225	PCB-1248	12672-29-6	1.0	U	1.0	5.2	2
10225	PCB-1254	11097-69-1	21		1.0	5.2	2
10225	PCB-1260	11096-82-5	9.9		1.0	5.2	2
10225	PCB-1262	37324-23-5	1.0	U	1.0	5.2	2
10225	PCB-1268	11100-14-4	1.0	U	1.0	5.2	2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **DUP09-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172055
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP09 SDG#: DE047-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,300		7.55	30.0	1
07914	Boron	7440-42-8	5.36	J	1.34	7.50	1
01650	Calcium	7440-70-2	2,360		9.20	30.0	1
01654	Iron	7439-89-6	11,800		7.07	30.0	1
01656	Lithium	7439-93-2	11.7		0.33	3.0	1
01657	Magnesium	7439-95-4	2,470		3.81	15.0	1
06958	Manganese	7439-96-5	176		0.117	0.750	1
10145	Phosphorus	7723-14-0	209		0.840	15.0	1
01662	Potassium	7440-09-7	2,030		27.0	75.0	1
01667	Sodium	7440-23-5	80.5	J	56.0	150	1
07968	Strontium	7440-24-6	16.5		0.0930	0.750	1
06969	Tin	7440-31-5	2.56	J	1.50	15.0	1
06970	Titanium	7440-32-6	1,150		0.576	1.52	1
10146	Zirconium	7440-67-7	2.67	J	1.26	7.50	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0874	0.291	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.01		0.0874	0.583	2
06126	Barium	7440-39-3	62.7		0.157	0.583	2
06127	Beryllium	7440-41-7	0.378		0.0233	0.146	2
06128	Cadmium	7440-43-9	0.204		0.0524	0.146	2
06131	Chromium	7440-47-3	13.1		0.175	0.583	2
06132	Cobalt	7440-48-4	4.14		0.0291	0.146	2
06133	Copper	7440-50-8	6.91		0.0962	0.583	2
06135	Lead	7439-92-1	39.9		0.0152	0.291	2
06138	Molybdenum	7439-98-7	0.425		0.0728	0.146	2
06139	Nickel	7440-02-0	8.84		0.146	0.583	2
06141	Selenium	7782-49-2	0.146	J	0.0583	0.583	2
06142	Silver	7440-22-4	0.153		0.0175	0.146	2
06145	Thallium	7440-28-0	0.180		0.0437	0.146	2
06148	Vanadium	7440-62-2	22.9		0.0321	0.146	2
06149	Zinc	7440-66-6	45.0		0.816	4.37	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0107	J	0.0042	0.145	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		1.2	1.5	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	13.6	U	13.6	45.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.30	1.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP09-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172055
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP09 SDG#: DE047-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	558	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.15	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	34.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 14:20	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 02:02	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 03:57	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/28/2011 23:22	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/28/2011 23:36	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 06:20	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5B-QC-122010 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172055
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP09 SDG#: DE047-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:26	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:30	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/06/2011 10:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/06/2011 10:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206A	01/14/2011 03:30	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204A	01/12/2011 05:01	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 19:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206A	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	10361182101A	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401A	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA5B-122010 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5B-122010

LLI Sample # WW 6172056
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:35

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-06 SDG#: DE047-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	20	U	20	61	1
04678	Benzoic acid	65-85-0	6	U	6	15	1
04678	Benzyl alcohol	100-51-6	5	U	5	15	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15	1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	10	U	10	30	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	15	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB06-SA5B-122010 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5B-122010

LLI Sample # WW 6172056
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:35

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-06 SDG#: DE047-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050	1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050	1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050	1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050	1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050	1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050	1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050	1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050	1
10137	Butylbenzylphthalate	85-68-7	0.12	J	0.050	1.0	1
10137	Di-n-butylphthalate	84-74-2	0.27	J	0.050	1.0	1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050	1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050	1
10137	Diethylphthalate	84-66-2	0.056	J	0.050	1.0	1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.26	J	0.050	1.0	1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050	1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050	1
10137	1-Methylnaphthalene	90-12-0	0.014	J	0.010	0.050	1
10137	2-Methylnaphthalene	91-57-6	0.019	J	0.010	0.050	1
10137	Naphthalene	91-20-3	0.042	J	0.010	0.050	1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050	1
10137	Di-n-octylphthalate	117-84-0	0.12	J	0.050	1.0	1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050	1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050	1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .15 ug/l
butylbenzylphthalate .10 ug/l
bis(2-ethylhexyl)phthalate .11 ug/l
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.52	1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3	1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0	1
10407	Dicamba	1918-00-9	0.083	U	0.083	0.31	1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52	1
10407	MCPA	94-74-6	310	U	310	1,000	1
10407	MCPP	93-65-2	52	U	52	210	1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.052	1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB06-SA5B-122010 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5B-122010

LLI Sample # WW 6172056
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:35

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-06 SDG#: DE047-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.011	1
00177	Alpha BHC	319-84-6	0.0032	U	0.0032	0.011	1
00177	Beta BHC	319-85-7	0.0031	U	0.0031	0.011	1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.011	1
00177	Chlordane	57-74-9	0.13	U	0.13	0.53	1
00177	p,p-DDD	72-54-8	0.0053	U	0.0053	0.021	1
00177	p,p-DDE	72-55-9	0.0053	U	0.0053	0.021	1
00177	p,p-DDT	50-29-3	0.0053	U	0.0053	0.021	1
00177	Delta BHC	319-86-8	0.0031	U	0.0031	0.011	1
00177	Dieldrin	60-57-1	0.0056	U	0.0056	0.021	1
00177	Endosulfan I	959-98-8	0.0045	U	0.0045	0.011	1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021	1
00177	Endosulfan Sulfate	1031-07-8	0.0061	U	0.0061	0.021	1
00177	Endrin	72-20-8	0.0085	U	0.0085	0.021	1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.11	1
00177	Endrin Ketone	53494-70-5	0.0053	U	0.0053	0.021	1
00177	Heptachlor	76-44-8	0.0027	U	0.0027	0.011	1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.011	1
00177	Methoxychlor	72-43-5	0.032	U	0.032	0.11	1
00177	Mirex	2385-85-5	0.089	U	0.089	0.26	1
00177	Toxaphene	8001-35-2	1.1	U	1.1	3.2	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.53	1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.53	1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.53	1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.53	1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.53	1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.53	1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.53	1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.53	1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.53	1
10227	PCB-1260	11096-82-5	0.11	U	0.11	0.53	1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.53	1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.53	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00097	J	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB06-SA5B-122010 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5B-122010

LLI Sample # WW 6172056
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:35

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-06 SDG#: DE047-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000054 J	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	1.3 J	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1

The holding time was not met. The sample was submitted to the laboratory outside of the holding time.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: EB06-SA5B-122010 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5B-122010

LLI Sample # WW 6172056
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:35

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-06 SDG#: DE047-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10356WAN026	01/15/2011 08:29	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10356WAM026	01/06/2011 22:47	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10356WAN026	12/23/2010 10:30	Olivia I Santiago	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10356WAM026	12/23/2010 10:30	Olivia I Santiago	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103560021A	12/23/2010 18:29	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103610003A	01/19/2011 20:48	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103610002A	12/31/2010 13:44	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103610002A	12/27/2010 10:30	Denise L Trimby	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103610003A	12/27/2010 10:30	Denise L Trimby	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103560021A	12/22/2010 20:30	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
08014	Boron	SW-846 6010B	1	103651848001	01/05/2011 18:29	John P Hook	1
01750	Calcium	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
01754	Iron	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
01756	Lithium	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
07058	Manganese	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
01762	Potassium	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
01767	Sodium	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
08068	Strontium	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
07069	Tin	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
07070	Titanium	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103651848001	01/04/2011 17:56	John P Hook	1
06024	Antimony	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103656050001D	01/06/2011 08:20	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103656050001C	01/06/2011 08:20	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103656050001B	01/06/2011 08:20	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103656050001A	01/06/2011 08:20	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103575713005	12/28/2010 15:36	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103651848001	01/04/2011 08:43	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103656050001	01/04/2011 08:40	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103575713005	12/23/2010 15:50	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB06-SA5B-122010 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5B-122010

LLI Sample # WW 6172056
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:35

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-06 SDG#: DE047-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10356196903A	12/23/2010 16:16	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10363658701A	12/29/2010 13:17	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10356196301A	12/22/2010 13:27	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-212-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172057
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL212 SDG#: DE047-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Anthracene	120-12-7	37	J	20	200	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzo(a)anthracene	56-55-3	160	J	20	200	1
04688	Benzo(a)pyrene	50-32-8	270		20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	700		20	200	1
04688	Benzo(k)fluoranthene	207-08-9	100	J	20	200	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	340		20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	27	J	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	81	U	81	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Chrysene	218-01-9	270		20	200	1
04688	Dibenz(a,h)anthracene	53-70-3	70	J	20	200	1
04688	Dibenzofuran	132-64-9	100	J	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	810	U	810	2,400	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	180	J	20	400	1
04688	Fluoranthene	206-44-0	220		20	200	1
04688	Hexachlorobenzene	118-74-1	100	J	20	200	1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	580		20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-212-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172057
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL212 SDG#: DE047-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	81	U	81	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	66	J	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenanthrene	85-01-8	300		20	200	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	Pyrene	129-00-0	310		20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	J	4.0	10	5
10138	Acenaphthylene	208-96-8	13		2.0	10	5
10138	Benzo(b)fluoranthene	205-99-2	410		4.0	10	5
10138	Fluorene	86-73-7	7.3	J	4.0	10	5
10138	1-Methylnaphthalene	90-12-0	260		4.0	10	5
10138	2-Methylnaphthalene	91-57-6	310		4.0	10	5
10138	Naphthalene	91-20-3	150		4.0	10	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	10	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	17		0.75	2.1	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.97	U	0.97	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.97	U	0.97	2.1	1
10401	MCPA	94-74-6	640		92	300	1
10401	MCPP (Mecoprop)	93-65-2	91	U	91	300	1
10401	2,4,5-T	93-76-5	0.099	U	0.099	0.21	1
10401	2,4,5-TP	93-72-1	0.36		0.091	0.21	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

Sample Description: SL-212-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172057
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL212 SDG#: DE047-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.080	U	0.080	0.20	1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20	1
01363	Beta BHC	319-85-7	0.25		0.072	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.082	U	0.082	0.20	1
01363	Chlordane	57-74-9	5.1	U	5.1	5.1	1
01363	p,p-DDD	72-54-8	0.35	U	0.35	0.41	1
01363	p,p-DDE	72-55-9	0.41	U	0.41	0.41	1
01363	p,p-DDT	50-29-3	2.3	U	2.3	2.3	1
01363	Delta BHC	319-86-8	0.097	J	0.043	0.20	1
01363	Dieldrin	60-57-1	0.080	U	0.080	0.41	1
01363	Endosulfan I	959-98-8	0.12	U	0.12	0.20	1
01363	Endosulfan II	33213-65-9	0.36	U	0.36	0.41	1
01363	Endosulfan Sulfate	1031-07-8	0.080	U	0.080	0.41	1
01363	Endrin	72-20-8	0.080	U	0.080	0.41	1
01363	Endrin Aldehyde	7421-93-4	0.93	U	0.93	0.93	1
01363	Endrin Ketone	53494-70-5	0.080	U	0.080	0.41	1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.45	U	0.45	0.45	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	1.1	U	1.1	1.1	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.0	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.0	U	6.0	20	5
10225	Aroclor 5442	12642-23-8	6.0	U	6.0	20	5
10225	Aroclor 5460	11126-42-4	39		6.0	20	5
10225	PCB-1016	12674-11-2	2.0	U	2.0	10	5
10225	PCB-1221	11104-28-2	3.0	U	3.0	10	5
10225	PCB-1232	11141-16-5	3.1	U	3.1	10	5
10225	PCB-1242	53469-21-9	3.0	U	3.0	10	5
10225	PCB-1248	12672-29-6	2.0	U	2.0	10	5
10225	PCB-1254	11097-69-1	61		2.0	10	5
10225	PCB-1260	11096-82-5	44		2.0	10	5
10225	PCB-1262	37324-23-5	2.0	U	2.0	10	5
10225	PCB-1268	11100-14-4	2.0	U	2.0	10	5

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,880	6.07	24.2	1
07914	Boron	7440-42-8	14.6	1.07	6.04	1
01650	Calcium	7440-70-2	5,450	7.40	24.2	1
01654	Iron	7439-89-6	15,300	5.69	24.2	1
01656	Lithium	7439-93-2	15.8	0.27	2.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-212-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172057
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL212 SDG#: DE047-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	3,000		3.07	12.1	1
06958	Manganese	7439-96-5	195		0.0942	0.604	1
10145	Phosphorus	7723-14-0	365		0.676	12.1	1
01662	Potassium	7440-09-7	2,140		21.7	60.4	1
01667	Sodium	7440-23-5	120	J	45.0	121	1
07968	Strontium	7440-24-6	26.8		0.0749	0.604	1
06969	Tin	7440-31-5	2.96	J	1.21	12.1	1
06970	Titanium	7440-32-6	833		0.446	1.17	1
10146	Zirconium	7440-67-7	2.96	J	1.01	6.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.380		0.0704	0.235	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.10		0.0704	0.469	2
06126	Barium	7440-39-3	68.0		0.127	0.469	2
06127	Beryllium	7440-41-7	0.462		0.0188	0.117	2
06128	Cadmium	7440-43-9	1.20		0.0422	0.117	2
06131	Chromium	7440-47-3	20.6		0.141	0.469	2
06132	Cobalt	7440-48-4	7.53		0.0235	0.117	2
06133	Copper	7440-50-8	33.1		0.0774	0.469	2
06135	Lead	7439-92-1	40.0		0.0122	0.235	2
06138	Molybdenum	7439-98-7	0.896		0.0586	0.117	2
06139	Nickel	7440-02-0	27.0		0.117	0.469	2
06141	Selenium	7782-49-2	0.318	J	0.0469	0.469	2
06142	Silver	7440-22-4	1.90		0.0141	0.117	2
06145	Thallium	7440-28-0	0.188		0.0352	0.117	2
06148	Vanadium	7440-62-2	29.1		0.0258	0.117	2
06149	Zinc	7440-66-6	657		3.28	17.6	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	23.6		0.165	5.74	50
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.97	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	445		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-212-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172057
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL212 SDG#: DE047-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.04	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	17.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 14:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 02:34	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 04:25	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/28/2011 23:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 06:38	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-212-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172057
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL212 SDG#: DE047-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:30	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:40	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/06/2011 10:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/10/2011 09:44	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 13:49	Nelli S Markaryan	50
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206A	01/14/2011 03:48	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204A	01/12/2011 05:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 19:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206A	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	10361182101A	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401A	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-213-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172058
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL213 SDG#: DE047-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzo(k)fluoranthene	207-08-9	20	J	19	190	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	22	J	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	26	J	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	76,000		1,900	37,000	100
04688	Hexachlorobenzene	118-74-1	25	J	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	150	J	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-213-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172058
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL213 SDG#: DE047-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	14,000		190	1,900	10
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.1	J	3.7	9.4	5
10138	Acenaphthylene	208-96-8	17		1.9	9.4	5
10138	Anthracene	120-12-7	20		1.9	9.4	5
10138	Benzo(a)anthracene	56-55-3	340		3.7	9.4	5
10138	Benzo(a)pyrene	50-32-8	440		3.7	9.4	5
10138	Benzo(b)fluoranthene	205-99-2	550		3.7	9.4	5
10138	Benzo(g,h,i)perylene	191-24-2	170		3.7	9.4	5
10138	Chrysene	218-01-9	650		1.9	9.4	5
10138	Dibenz(a,h)anthracene	53-70-3	46		3.7	9.4	5
10138	Fluoranthene	206-44-0	260		3.7	9.4	5
10138	Fluorene	86-73-7	4.0	J	3.7	9.4	5
10138	1-Methylnaphthalene	90-12-0	40		3.7	9.4	5
10138	2-Methylnaphthalene	91-57-6	48		3.7	9.4	5
10138	Naphthalene	91-20-3	29		3.7	9.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.4	5
10138	Phenanthrene	85-01-8	150		3.7	9.4	5
10138	Pyrene	129-00-0	280		3.7	9.4	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	10	1
10401	2,4-DB	94-82-6	11		0.70	1.9	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3	1
10401	Dinoseb	88-85-7	1.6	U	1.6	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9	1
10401	MCPA	94-74-6	880		85	280	1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280	1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19	1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172058
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL213 SDG#: DE047-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: Dinoseb.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.37	U	0.37	0.93	5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.93	5
01363	Beta BHC	319-85-7	0.57	J	0.34	0.93	5
01363	Gamma BHC - Lindane	58-89-9	0.26	U	0.26	0.93	5
01363	Chlordane	57-74-9	17	U	17	19	5
01363	p,p-DDD	72-54-8	7.5	U	7.5	7.5	5
01363	p,p-DDE	72-55-9	0.37	U	0.37	1.9	5
01363	p,p-DDT	50-29-3	4.7	U	4.7	4.7	5
01363	Delta BHC	319-86-8	0.20	U	0.20	0.93	5
01363	Dieldrin	60-57-1	2.0	U	2.0	2.0	5
01363	Endosulfan I	959-98-8	0.25	U	0.25	0.93	5
01363	Endosulfan II	33213-65-9	1.4	U	1.4	1.9	5
01363	Endosulfan Sulfate	1031-07-8	2.1	U	2.1	2.1	5
01363	Endrin	72-20-8	0.37	U	0.37	1.9	5
01363	Endrin Aldehyde	7421-93-4	2.7	U	2.7	2.7	5
01363	Endrin Ketone	53494-70-5	0.37	U	0.37	1.9	5
01363	Heptachlor	76-44-8	0.34	U	0.34	0.93	5
01363	Heptachlor Epoxide	1024-57-3	0.42	U	0.42	0.93	5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.3	5
01363	Mirex	2385-85-5	0.37	U	0.37	1.9	5
01363	Toxaphene	8001-35-2	12	U	12	37	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	37	10
10225	Aroclor 5442	12642-23-8	11	U	11	37	10
10225	Aroclor 5460	11126-42-4	36	J	11	37	10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19	10
10225	PCB-1221	11104-28-2	5.6	U	5.6	19	10
10225	PCB-1232	11141-16-5	5.8	U	5.8	19	10
10225	PCB-1242	53469-21-9	5.6	U	5.6	19	10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19	10
10225	PCB-1254	11097-69-1	120		3.7	19	10
10225	PCB-1260	11096-82-5	68		3.7	19	10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19	10
10225	PCB-1268	11100-14-4	3.7	U	3.7	19	10
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172058
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL213 SDG#: DE047-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	6,790		5.55	22.1	1
07914	Boron	7440-42-8	6.13		0.981	5.51	1
01650	Calcium	7440-70-2	2,970		6.76	22.1	1
01654	Iron	7439-89-6	12,400		5.19	22.1	1
01656	Lithium	7439-93-2	11.2		0.24	2.2	1
01657	Magnesium	7439-95-4	2,380		2.80	11.0	1
06958	Manganese	7439-96-5	139		0.0860	0.551	1
10145	Phosphorus	7723-14-0	300		0.618	11.0	1
01662	Potassium	7440-09-7	1,560		19.9	55.1	1
01667	Sodium	7440-23-5	120		41.1	110	1
07968	Strontium	7440-24-6	13.6		0.0684	0.551	1
06969	Tin	7440-31-5	2.10	J	1.10	11.0	1
06970	Titanium	7440-32-6	596		0.423	1.11	1
10146	Zirconium	7440-67-7	2.11	J	0.926	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.204	J	0.0655	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.98		0.0655	0.437	2
06126	Barium	7440-39-3	60.3		0.118	0.437	2
06127	Beryllium	7440-41-7	0.496		0.0175	0.109	2
06128	Cadmium	7440-43-9	1.75		0.0393	0.109	2
06131	Chromium	7440-47-3	12.7		0.131	0.437	2
06132	Cobalt	7440-48-4	6.21		0.0218	0.109	2
06133	Copper	7440-50-8	26.3		0.0721	0.437	2
06135	Lead	7439-92-1	24.1		0.0114	0.218	2
06138	Molybdenum	7439-98-7	0.650		0.0546	0.109	2
06139	Nickel	7440-02-0	17.5		0.109	0.437	2
06141	Selenium	7782-49-2	0.216	J	0.0437	0.437	2
06142	Silver	7440-22-4	0.978		0.0131	0.109	2
06145	Thallium	7440-28-0	0.134		0.0328	0.109	2
06148	Vanadium	7440-62-2	21.0		0.0240	0.109	2
06149	Zinc	7440-66-6	654		3.06	16.4	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.399		0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.80	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172058
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
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SL213 SDG#: DE047-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	494	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.57	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 15:11	Brian K Graham	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/21/2011 18:18	Brian K Graham	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/21/2011 18:43	Brian K Graham	100
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 03:07	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 04:53	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/31/2011 21:58	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 06:57	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172058
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SL213 SDG#: DE047-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:41	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:44	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/06/2011 10:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/10/2011 09:46	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206A	01/14/2011 04:06	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204A	01/12/2011 06:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 19:46	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206A	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	10361182101B	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401B	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172058
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL213 SDG#: DE047-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-214-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172059
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL214 SDG#: DE047-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	2,200	U	2,200	6,500	1
04688	Benzidine	92-87-5	15,000	U	15,000	43,000	1
04688	Benzo(a)pyrene	50-32-8	1,100	J	220	2,200	1
04688	Benzo(g,h,i)perylene	191-24-2	1,500	J	220	2,200	1
04688	Benzoic acid	65-85-0	2,200	U	2,200	6,500	1
04688	Benzyl alcohol	100-51-6	2,200	U	2,200	6,500	1
04688	4-Bromophenyl-phenylether	101-55-3	220	U	220	2,200	1
04688	Butylbenzylphthalate	85-68-7	220	U	220	2,200	1
04688	Di-n-butylphthalate	84-74-2	220	U	220	2,200	1
04688	Carbazole	86-74-8	220	U	220	2,200	1
04688	4-Chloro-3-methylphenol	59-50-7	430	U	430	2,200	1
04688	4-Chloroaniline	106-47-8	860	U	860	2,200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	220	U	220	2,200	1
04688	bis(2-Chloroethyl)ether	111-44-4	220	U	220	2,200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	220	U	220	2,200	1
04688	2-Chloronaphthalene	91-58-7	220	U	220	2,200	1
04688	2-Chlorophenol	95-57-8	220	U	220	2,200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	430	U	430	2,200	1
04688	Chrysene	218-01-9	1,900	J	220	2,200	1
04688	Dibenzofuran	132-64-9	220	U	220	2,200	1
04688	1,2-Dichlorobenzene	95-50-1	220	U	220	2,200	1
04688	1,3-Dichlorobenzene	541-73-1	220	U	220	2,200	1
04688	1,4-Dichlorobenzene	106-46-7	220	U	220	2,200	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	U	1,300	4,300	1
04688	2,4-Dichlorophenol	120-83-2	220	U	220	2,200	1
04688	Diethylphthalate	84-66-2	220	U	220	2,200	1
04688	2,4-Dimethylphenol	105-67-9	430	U	430	2,200	1
04688	3,5-Dimethylphenol	108-68-9	430	U	430	2,200	1
04688	Dimethylphthalate	131-11-3	220	U	220	2,200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	2,200	U	2,200	6,500	1
04688	2,4-Dinitrophenol	51-28-5	8,600	U	8,600	26,000	1
04688	2,4-Dinitrotoluene	121-14-2	430	U	430	2,200	1
04688	2,6-Dinitrotoluene	606-20-2	220	U	220	2,200	1
04688	1,2-Diphenylhydrazine	122-66-7	220	U	220	2,200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	330	J	220	4,300	1
04688	Fluoranthene	206-44-0	650	J	220	2,200	1
04688	Hexachlorobenzene	118-74-1	220	U	220	2,200	1
04688	Hexachlorobutadiene	87-68-3	860	U	860	2,200	1
04688	Hexachlorocyclopentadiene	77-47-4	2,200	U	2,200	6,500	1
04688	Hexachloroethane	67-72-1	220	U	220	2,200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	J	220	2,200	1
04688	Isophorone	78-59-1	220	U	220	2,200	1
04688	2-Methylphenol	95-48-7	430	U	430	2,200	1
04688	4-Methylphenol	106-44-5	430	U	430	2,200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	220	U	220	2,200	1
04688	3-Nitroaniline	99-09-2	430	U	430	2,200	1
04688	4-Nitroaniline	100-01-6	860	U	860	2,200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-214-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172059
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL214 SDG#: DE047-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	220	U	220	2,200	1
04688	2-Nitrophenol	88-75-5	220	U	220	2,200	1
04688	4-Nitrophenol	100-02-7	2,200	U	2,200	6,500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	220	U	220	2,200	1
04688	N-Nitrosodiphenylamine	86-30-6	220	U	220	2,200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	220	U	220	2,200	1
04688	Pentachlorophenol	87-86-5	2,200	U	2,200	6,500	1
04688	Phenanthrene	85-01-8	330	J	220	2,200	1
04688	Phenol	108-95-2	220	U	220	2,200	1
04688	Pyrene	129-00-0	550	J	220	2,200	1
04688	1,2,4-Trichlorobenzene	120-82-1	220	U	220	2,200	1
04688	2,4,5-Trichlorophenol	95-95-4	430	U	430	2,200	1
04688	2,4,6-Trichlorophenol	88-06-2	430	U	430	2,200	1
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	43	U	43	110	5
10138	Acenaphthylene	208-96-8	22	U	22	110	5
10138	Anthracene	120-12-7	25	J	22	110	5
10138	Benzo(a)anthracene	56-55-3	310		43	110	5
10138	Benzo(b)fluoranthene	205-99-2	2,900		43	110	5
10138	Benzo(k)fluoranthene	207-08-9	43	U	43	110	5
10138	Dibenz(a,h)anthracene	53-70-3	160		43	110	5
10138	Fluorene	86-73-7	43	U	43	110	5
10138	1-Methylnaphthalene	90-12-0	43	U	43	110	5
10138	2-Methylnaphthalene	91-57-6	43	U	43	110	5
10138	Naphthalene	91-20-3	43	U	43	110	5
10138	N-Nitrosodimethylamine	62-75-9	43	U	43	110	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.6	U	1.6	4.7	1
10401	Dalapon	75-99-0	5.7	U	5.7	12	1
10401	2,4-DB	94-82-6	18		0.80	2.2	1
10401	Dicamba	1918-00-9	0.52	U	0.52	1.6	1
10401	Dinoseb	88-85-7	1.1	U	1.1	3.1	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2	1
10401	MCPA	94-74-6	880		98	320	1
10401	MCPP (Mecoprop)	93-65-2	97	U	97	320	1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.22	1
10401	2,4,5-TP	93-72-1	0.097	U	0.097	0.22	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						

When the concentration detected on the primary and confirmation

Sample Description: **SL-214-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172059
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL214 SDG#: DE047-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: Dinoseb.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.43	U	0.43	1.1	5
01363	Alpha BHC	319-84-6	0.22	U	0.22	1.1	5
01363	Beta BHC	319-85-7	0.39	U	0.39	1.1	5
01363	Gamma BHC - Lindane	58-89-9	0.22	U	0.22	1.1	5
01363	Chlordane	57-74-9	22	U	22	22	5
01363	p,p-DDD	72-54-8	4.3	U	4.3	22	50
01363	p,p-DDE	72-55-9	2.1	U	2.1	2.2	5
01363	p,p-DDT	50-29-3	12	U	12	12	5
01363	Delta BHC	319-86-8	0.23	U	0.23	1.1	5
01363	Dieldrin	60-57-1	2.6	U	2.6	2.6	5
01363	Endosulfan I	959-98-8	0.28	U	0.28	1.1	5
01363	Endosulfan II	33213-65-9	1.8	U	1.8	2.2	5
01363	Endosulfan Sulfate	1031-07-8	5.4	U	5.4	5.4	5
01363	Endrin	72-20-8	0.43	U	0.43	2.2	5
01363	Endrin Aldehyde	7421-93-4	2.2	U	2.2	2.2	5
01363	Endrin Ketone	53494-70-5	0.43	U	0.43	2.2	5
01363	Heptachlor	76-44-8	0.39	U	0.39	1.1	5
01363	Heptachlor Epoxide	1024-57-3	2.8	U	2.8	2.8	5
01363	Methoxychlor	72-43-5	2.2	U	2.2	11	5
01363	Mirex	2385-85-5	0.43	U	0.43	2.2	5
01363	Toxaphene	8001-35-2	14	U	14	43	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	13	U	13	43	10
10225	Aroclor 5442	12642-23-8	13	U	13	43	10
10225	Aroclor 5460	11126-42-4	85		13	43	10
10225	PCB-1016	12674-11-2	4.3	U	4.3	22	10
10225	PCB-1221	11104-28-2	6.5	U	6.5	22	10
10225	PCB-1232	11141-16-5	6.7	U	6.7	22	10
10225	PCB-1242	53469-21-9	6.5	U	6.5	22	10
10225	PCB-1248	12672-29-6	23		4.3	22	10
10225	PCB-1254	11097-69-1	120		4.3	22	10
10225	PCB-1260	11096-82-5	140		4.3	22	10
10225	PCB-1262	37324-23-5	4.3	U	4.3	22	10
10225	PCB-1268	11100-14-4	4.3	U	4.3	22	10
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-214-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172059
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL214 SDG#: DE047-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		6.20	24.6	1
07914	Boron	7440-42-8	16.3		1.10	6.16	1
01650	Calcium	7440-70-2	6,470		7.55	24.6	1
01654	Iron	7439-89-6	16,700		5.80	24.6	1
01656	Lithium	7439-93-2	16.9		0.27	2.5	1
01657	Magnesium	7439-95-4	3,630		3.13	12.3	1
06958	Manganese	7439-96-5	258		0.0961	0.616	1
10145	Phosphorus	7723-14-0	501		0.690	12.3	1
01662	Potassium	7440-09-7	2,950		22.2	61.6	1
01667	Sodium	7440-23-5	338		46.0	123	1
07968	Strontium	7440-24-6	51.6		0.0764	0.616	1
06969	Tin	7440-31-5	2.88	J	1.23	12.3	1
06970	Titanium	7440-32-6	907		0.477	1.26	1
10146	Zirconium	7440-67-7	4.20	J	1.03	6.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.464		0.0776	0.259	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.45		0.0776	0.517	2
06126	Barium	7440-39-3	79.9		0.140	0.517	2
06127	Beryllium	7440-41-7	0.568		0.0207	0.129	2
06128	Cadmium	7440-43-9	2.44		0.0466	0.129	2
06131	Chromium	7440-47-3	36.0		0.155	0.517	2
06132	Cobalt	7440-48-4	7.17		0.0259	0.129	2
06133	Copper	7440-50-8	55.9		0.0854	0.517	2
06135	Lead	7439-92-1	55.9		0.0135	0.259	2
06138	Molybdenum	7439-98-7	1.83		0.0647	0.129	2
06139	Nickel	7440-02-0	46.9		0.129	0.517	2
06141	Selenium	7782-49-2	0.302	J	0.0517	0.517	2
06142	Silver	7440-22-4	3.85		0.0155	0.129	2
06145	Thallium	7440-28-0	0.316		0.0388	0.129	2
06148	Vanadium	7440-62-2	34.5		0.0285	0.129	2
06149	Zinc	7440-66-6	715		3.62	19.4	10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.390		0.0035	0.121	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		1.0	1.3	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.6	U	11.6	38.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-214-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172059
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL214 SDG#: DE047-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	494	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.93	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	22.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 15:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 03:39	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 06:17	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/29/2011 00:21	Jamie L Brillhart	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/31/2011 22:13	Jamie L Brillhart	50
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 14:21	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-214-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172059
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL214 SDG#: DE047-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:47	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/06/2011 10:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/10/2011 09:41	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206B	01/14/2011 05:57	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204B	01/12/2011 07:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11012243201A	01/17/2011 19:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206B	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	10361182101B	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401B	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-215-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172060
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	230	U	230	700	1
04688	Benzidine	92-87-5	1,600	U	1,600	4,600	1
04688	Benzoic acid	65-85-0	230	U	230	700	1
04688	Benzyl alcohol	100-51-6	230	U	230	700	1
04688	4-Bromophenyl-phenylether	101-55-3	23	U	23	230	1
04688	Butylbenzylphthalate	85-68-7	23	U	23	230	1
04688	Di-n-butylphthalate	84-74-2	23	U	23	230	1
04688	Carbazole	86-74-8	23	U	23	230	1
04688	4-Chloro-3-methylphenol	59-50-7	46	U	46	230	1
04688	4-Chloroaniline	106-47-8	93	U	93	230	1
04688	bis(2-Chloroethoxy)methane	111-91-1	23	U	23	230	1
04688	bis(2-Chloroethyl)ether	111-44-4	23	U	23	230	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	23	U	23	230	1
04688	2-Chloronaphthalene	91-58-7	23	U	23	230	1
04688	2-Chlorophenol	95-57-8	23	U	23	230	1
04688	4-Chlorophenyl-phenylether	7005-72-3	46	U	46	230	1
04688	Dibenzofuran	132-64-9	23	U	23	230	1
04688	1,2-Dichlorobenzene	95-50-1	23	U	23	230	1
04688	1,3-Dichlorobenzene	541-73-1	23	U	23	230	1
04688	1,4-Dichlorobenzene	106-46-7	23	U	23	230	1
04688	3,3'-Dichlorobenzidine	91-94-1	140	U	140	460	1
04688	2,4-Dichlorophenol	120-83-2	23	U	23	230	1
04688	Diethylphthalate	84-66-2	23	U	23	230	1
04688	2,4-Dimethylphenol	105-67-9	46	U	46	230	1
04688	3,5-Dimethylphenol	108-68-9	46	U	46	230	1
04688	Dimethylphthalate	131-11-3	23	U	23	230	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	230	U	230	700	1
04688	2,4-Dinitrophenol	51-28-5	930	U	930	2,800	1
04688	2,4-Dinitrotoluene	121-14-2	46	U	46	230	1
04688	2,6-Dinitrotoluene	606-20-2	23	U	23	230	1
04688	1,2-Diphenylhydrazine	122-66-7	23	U	23	230	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	42	J	23	460	1
04688	Hexachlorobenzene	118-74-1	23	U	23	230	1
04688	Hexachlorobutadiene	87-68-3	93	U	93	230	1
04688	Hexachlorocyclopentadiene	77-47-4	230	U	230	700	1
04688	Hexachloroethane	67-72-1	23	U	23	230	1
04688	Isophorone	78-59-1	23	U	23	230	1
04688	2-Methylphenol	95-48-7	46	U	46	230	1
04688	4-Methylphenol	106-44-5	46	U	46	230	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	23	U	23	230	1
04688	3-Nitroaniline	99-09-2	46	U	46	230	1
04688	4-Nitroaniline	100-01-6	93	U	93	230	1
04688	Nitrobenzene	98-95-3	23	U	23	230	1
04688	2-Nitrophenol	88-75-5	23	U	23	230	1
04688	4-Nitrophenol	100-02-7	230	U	230	700	1
04688	N-Nitroso-di-n-propylamine	621-64-7	23	U	23	230	1
04688	N-Nitrosodiphenylamine	86-30-6	23	U	23	230	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-215-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172060
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	23	U	23	230	1
04688	Pentachlorophenol	87-86-5	230	U	230	700	1
04688	Phenol	108-95-2	23	U	23	230	1
04688	1,2,4-Trichlorobenzene	120-82-1	23	U	23	230	1
04688	2,4,5-Trichlorophenol	95-95-4	46	U	46	230	1
04688	2,4,6-Trichlorophenol	88-06-2	46	U	46	230	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.6	U	4.6	12	5
10138	Acenaphthylene	208-96-8	2.3	U	2.3	12	5
10138	Anthracene	120-12-7	4.9	J	2.3	12	5
10138	Benzo(a)anthracene	56-55-3	18		4.6	12	5
10138	Benzo(a)pyrene	50-32-8	59		4.6	12	5
10138	Benzo(b)fluoranthene	205-99-2	230		4.6	12	5
10138	Benzo(g,h,i)perylene	191-24-2	28		4.6	12	5
10138	Benzo(k)fluoranthene	207-08-9	4.6	U	4.6	12	5
10138	Chrysene	218-01-9	93		2.3	12	5
10138	Dibenz(a,h)anthracene	53-70-3	9.6	J	4.6	12	5
10138	Fluoranthene	206-44-0	41		4.6	12	5
10138	Fluorene	86-73-7	4.6	U	4.6	12	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	45		4.6	12	5
10138	1-Methylnaphthalene	90-12-0	4.8	J	4.6	12	5
10138	2-Methylnaphthalene	91-57-6	5.3	J	4.6	12	5
10138	Naphthalene	91-20-3	5.1	J	4.6	12	5
10138	N-Nitrosodimethylamine	62-75-9	4.6	U	4.6	12	5
10138	Phenanthrene	85-01-8	26		4.6	12	5
10138	Pyrene	129-00-0	31		4.6	12	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.7	U	1.7	5.0	1
10401	Dalapon	75-99-0	6.1	U	6.1	13	1
10401	2,4-DB	94-82-6	2.8	U	2.8	2.8	1
10401	Dicamba	1918-00-9	0.56	U	0.56	1.7	1
10401	Dinoseb	88-85-7	1.1	U	1.1	3.3	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	U	1.1	2.4	1
10401	MCPA	94-74-6	110	U	110	350	1
10401	MCPP (Mecoprop)	93-65-2	100	U	100	350	1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.24	1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.24	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the						

Sample Description: **SL-215-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172060
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.092	U	0.092	0.23	1
01363	Alpha BHC	319-84-6	0.047	U	0.047	0.23	1
01363	Beta BHC	319-85-7	0.29		0.083	0.23	1
01363	Gamma BHC - Lindane	58-89-9	0.047	U	0.047	0.23	1
01363	Chlordane	57-74-9	1.7	U	1.7	4.7	1
01363	p,p-DDD	72-54-8	1.5	U	1.5	1.5	1
01363	p,p-DDE	72-55-9	0.25	U	0.25	0.47	1
01363	p,p-DDT	50-29-3	1.2	U	1.2	1.2	1
01363	Delta BHC	319-86-8	0.050	U	0.050	0.23	1
01363	Dieldrin	60-57-1	0.39	U	0.39	0.47	1
01363	Endosulfan I	959-98-8	0.061	U	0.061	0.23	1
01363	Endosulfan II	33213-65-9	0.15	U	0.15	0.47	1
01363	Endosulfan Sulfate	1031-07-8	0.092	U	0.092	0.47	1
01363	Endrin	72-20-8	0.092	U	0.092	0.47	1
01363	Endrin Aldehyde	7421-93-4	0.092	U	0.092	0.47	1
01363	Endrin Ketone	53494-70-5	0.25	U	0.25	0.47	1
01363	Heptachlor	76-44-8	0.083	U	0.083	0.23	1
01363	Heptachlor Epoxide	1024-57-3	0.20	U	0.20	0.23	1
01363	Methoxychlor	72-43-5	0.47	U	0.47	2.3	1
01363	Mirex	2385-85-5	0.092	U	0.092	0.47	1
01363	Toxaphene	8001-35-2	3.1	U	3.1	9.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.4	U	1.4	4.6	1
10225	Aroclor 5442	12642-23-8	1.4	U	1.4	4.6	1
10225	Aroclor 5460	11126-42-4	37		1.4	4.6	1
10225	PCB-1016	12674-11-2	0.46	U	0.46	2.4	1
10225	PCB-1221	11104-28-2	0.70	U	0.70	2.4	1
10225	PCB-1232	11141-16-5	0.72	U	0.72	2.4	1
10225	PCB-1242	53469-21-9	0.70	U	0.70	2.4	1
10225	PCB-1248	12672-29-6	0.46	U	0.46	2.4	1
10225	PCB-1254	11097-69-1	37		0.46	2.4	1
10225	PCB-1260	11096-82-5	8.7		0.46	2.4	1
10225	PCB-1262	37324-23-5	0.46	U	0.46	2.4	1
10225	PCB-1268	11100-14-4	0.46	U	0.46	2.4	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		6.66	26.5	1
07914	Boron	7440-42-8	6.28	J	1.18	6.62	1
01650	Calcium	7440-70-2	2,770		8.12	26.5	1
01654	Iron	7439-89-6	14,800		6.24	26.5	1
01656	Lithium	7439-93-2	14.6		0.29	2.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172060
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	3,030		3.36	13.2	1
06958	Manganese	7439-96-5	229		0.103	0.662	1
10145	Phosphorus	7723-14-0	260		0.742	13.2	1
01662	Potassium	7440-09-7	2,500		23.8	66.2	1
01667	Sodium	7440-23-5	94.3	J	49.4	132	1
07968	Strontium	7440-24-6	19.5		0.0821	0.662	1
06969	Tin	7440-31-5	2.33	J	1.32	13.2	1
06970	Titanium	7440-32-6	1,070		0.518	1.36	1
10146	Zirconium	7440-67-7	2.96	J	1.11	6.62	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.156	J	0.0834	0.278	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.57		0.0834	0.556	2
06126	Barium	7440-39-3	68.1		0.150	0.556	2
06127	Beryllium	7440-41-7	0.473		0.0223	0.139	2
06128	Cadmium	7440-43-9	0.202		0.0501	0.139	2
06131	Chromium	7440-47-3	14.2		0.167	0.556	2
06132	Cobalt	7440-48-4	4.54		0.0278	0.139	2
06133	Copper	7440-50-8	7.44		0.0918	0.556	2
06135	Lead	7439-92-1	47.4		0.0145	0.278	2
06138	Molybdenum	7439-98-7	0.453		0.0695	0.139	2
06139	Nickel	7440-02-0	9.68		0.139	0.556	2
06141	Selenium	7782-49-2	0.196	J	0.0556	0.556	2
06142	Silver	7440-22-4	0.197		0.0167	0.139	2
06145	Thallium	7440-28-0	0.222		0.0417	0.139	2
06148	Vanadium	7440-62-2	25.0		0.0306	0.139	2
06149	Zinc	7440-66-6	51.0		0.779	4.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050	J	0.0039	0.138	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		1.1	1.4	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	12.5	U	12.5	41.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.28	1.4	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	498		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172060
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.16	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	28.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 13:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 00:25	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 06:45	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/29/2011 00:50	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 08:48	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-215-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172060
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:09	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/10/2011 09:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 09:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 09:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/06/2011 09:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206B	01/14/2011 04:25	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204B	01/12/2011 06:33	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 20:18	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206B	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	10361182101B	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401B	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-215-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172061
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	2,100		23	230	1
04688	Acenaphthylene	208-96-8	2,200		23	230	1
04688	Aniline	62-53-3	1,600		230	700	1
04688	Anthracene	120-12-7	2,200		23	230	1
04688	Benzidine	92-87-5	1,600	U	1,600	4,600	1
04688	Benzo(a)anthracene	56-55-3	2,100		23	230	1
04688	Benzo(a)pyrene	50-32-8	1,800		23	230	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		23	230	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		23	230	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		23	230	1
04688	Benzoic acid	65-85-0	2,400		230	700	1
04688	Benzyl alcohol	100-51-6	2,200		230	700	1
04688	4-Bromophenyl-phenylether	101-55-3	2,200		23	230	1
04688	Butylbenzylphthalate	85-68-7	2,300		23	230	1
04688	Di-n-butylphthalate	84-74-2	2,200		23	230	1
04688	Carbazole	86-74-8	2,100		23	230	1
04688	4-Chloro-3-methylphenol	59-50-7	2,000		46	230	1
04688	4-Chloroaniline	106-47-8	1,500		93	230	1
04688	bis(2-Chloroethoxy)methane	111-91-1	2,100		23	230	1
04688	bis(2-Chloroethyl)ether	111-44-4	2,100		23	230	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		23	230	1
04688	2-Chloronaphthalene	91-58-7	1,900		23	230	1
04688	2-Chlorophenol	95-57-8	2,200		23	230	1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,100		46	230	1
04688	Chrysene	218-01-9	2,100		23	230	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		23	230	1
04688	Dibenzofuran	132-64-9	2,200		23	230	1
04688	1,2-Dichlorobenzene	95-50-1	2,000		23	230	1
04688	1,3-Dichlorobenzene	541-73-1	2,000		23	230	1
04688	1,4-Dichlorobenzene	106-46-7	2,000		23	230	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,600		140	460	1
04688	2,4-Dichlorophenol	120-83-2	2,200		23	230	1
04688	Diethylphthalate	84-66-2	2,100		23	230	1
04688	2,4-Dimethylphenol	105-67-9	2,200		46	230	1
04688	3,5-Dimethylphenol	108-68-9	2,300		46	230	1
04688	Dimethylphthalate	131-11-3	2,100		23	230	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600		230	700	1
04688	2,4-Dinitrophenol	51-28-5	3,000		930	2,800	1
04688	2,4-Dinitrotoluene	121-14-2	2,100		46	230	1
04688	2,6-Dinitrotoluene	606-20-2	2,100		23	230	1
04688	1,2-Diphenylhydrazine	122-66-7	2,300		23	230	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,300		23	460	1
04688	Fluoranthene	206-44-0	2,100		23	230	1
04688	Fluorene	86-73-7	2,100		23	230	1
04688	Hexachlorobenzene	118-74-1	2,200		23	230	1
04688	Hexachlorobutadiene	87-68-3	2,100		93	230	1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		230	700	1
04688	Hexachloroethane	67-72-1	1,900		23	230	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		23	230	1
04688	Isophorone	78-59-1	2,100		23	230	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172061
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	2,200		23	230	1
04688	2-Methylnaphthalene	91-57-6	2,000		23	230	1
04688	2-Methylphenol	95-48-7	2,200		46	230	1
04688	4-Methylphenol	106-44-5	2,100		46	230	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	2,100		23	230	1
04688	2-Nitroaniline	88-74-4	2,200		23	230	1
04688	3-Nitroaniline	99-09-2	2,000		46	230	1
04688	4-Nitroaniline	100-01-6	1,900		93	230	1
04688	Nitrobenzene	98-95-3	2,100		23	230	1
04688	2-Nitrophenol	88-75-5	2,200		23	230	1
04688	4-Nitrophenol	100-02-7	1,800		230	700	1
04688	N-Nitrosodimethylamine	62-75-9	2,100		46	230	1
04688	N-Nitroso-di-n-propylamine	621-64-7	2,100		23	230	1
04688	N-Nitrosodiphenylamine	86-30-6	2,300		23	230	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000		23	230	1
04688	Pentachlorophenol	87-86-5	2,100		230	700	1
04688	Phenanthrene	85-01-8	2,100		23	230	1
04688	Phenol	108-95-2	2,100		23	230	1
04688	Pyrene	129-00-0	2,300		23	230	1
04688	1,2,4-Trichlorobenzene	120-82-1	2,100		23	230	1
04688	2,4,5-Trichlorophenol	95-95-4	2,200		46	230	1
04688	2,4,6-Trichlorophenol	88-06-2	2,200		46	230	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	39		4.6	12	5
10138	Acenaphthylene	208-96-8	42		2.3	12	5
10138	Anthracene	120-12-7	37		2.3	12	5
10138	Benzo(a)anthracene	56-55-3	39		4.6	12	5
10138	Benzo(a)pyrene	50-32-8	39		4.6	12	5
10138	Benzo(b)fluoranthene	205-99-2	57		4.6	12	5
10138	Benzo(g,h,i)perylene	191-24-2	22		4.6	12	5
10138	Benzo(k)fluoranthene	207-08-9	39		4.6	12	5
10138	Butylbenzylphthalate	85-68-7	54	J	42	130	5
10138	Di-n-butylphthalate	84-74-2	42	J	42	130	5
10138	Chrysene	218-01-9	44		2.3	12	5
10138	Dibenz(a,h)anthracene	53-70-3	22		4.6	12	5
10138	Diethylphthalate	84-66-2	42	J	42	130	5
10138	Dimethylphthalate	131-11-3	46	J	42	130	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	78	J	42	130	5
10138	Fluoranthene	206-44-0	43		4.6	12	5
10138	Fluorene	86-73-7	43		4.6	12	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24		4.6	12	5
10138	1-Methylnaphthalene	90-12-0	40		4.6	12	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-215-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172061
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	37		4.6	12	5
10138	Naphthalene	91-20-3	41		4.6	12	5
10138	N-Nitrosodimethylamine	62-75-9	42		4.6	12	5
10138	Di-n-octylphthalate	117-84-0	64	J	42	130	5
10138	Phenanthrene	85-01-8	41		4.6	12	5
10138	Pyrene	129-00-0	39		4.6	12	5

Reporting limits were raised due to interference from the sample matrix.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	15		1.7	5.0	1
10401	Dalapon	75-99-0	28		6.1	13	1
10401	2,4-DB	94-82-6	12		0.86	2.4	1
10401	Dicamba	1918-00-9	1.1	J	0.56	1.7	1
10401	Dinoseb	88-85-7	3.4		1.1	3.3	1
10401	2,4-DP (Dichlorprop)	120-36-5	13		1.1	2.4	1
10401	MCPA	94-74-6	1,300		110	350	1
10401	MCPP (Mecoprop)	93-65-2	1,000		100	350	1
10401	2,4,5-T	93-76-5	1.5		0.11	0.24	1
10401	2,4,5-TP	93-72-1	1.0		0.10	0.24	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.17	J	0.092	0.24	1
01363	Alpha BHC	319-84-6	0.099	J	0.047	0.24	1
01363	Beta BHC	319-85-7	0.96		0.083	0.24	1
01363	Gamma BHC - Lindane	58-89-9	0.12	J	0.047	0.24	1
01363	Chlordane	57-74-9	1.1	U	1.1	4.7	1
01363	p,p-DDD	72-54-8	0.54		0.092	0.47	1
01363	p,p-DDE	72-55-9	0.50		0.092	0.47	1
01363	p,p-DDT	50-29-3	3.8		0.092	0.47	1
01363	Delta BHC	319-86-8	0.15	J	0.050	0.24	1
01363	Dieldrin	60-57-1	0.40	J	0.092	0.47	1
01363	Endosulfan I	959-98-8	0.061	U	0.061	0.24	1
01363	Endosulfan II	33213-65-9	0.24	J	0.092	0.47	1
01363	Endosulfan Sulfate	1031-07-8	0.21	J	0.092	0.47	1
01363	Endrin	72-20-8	0.26	J	0.092	0.47	1
01363	Endrin Aldehyde	7421-93-4	0.092	U	0.092	0.47	1
01363	Endrin Ketone	53494-70-5	0.39	J	0.092	0.47	1
01363	Heptachlor	76-44-8	0.13	J	0.083	0.24	1
01363	Heptachlor Epoxide	1024-57-3	0.32		0.047	0.24	1
01363	Methoxychlor	72-43-5	0.47	U	0.47	2.3	1
01363	Mirex	2385-85-5	0.092	U	0.092	0.47	1
01363	Toxaphene	8001-35-2	3.1	U	3.1	9.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Sample Description: SL-215-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172061
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.4	U	1.4	4.6	1
10225	Aroclor 5442	12642-23-8	1.4	U	1.4	4.6	1
10225	Aroclor 5460	11126-42-4	4.2	J	1.4	4.6	1
10225	PCB-1016	12674-11-2	17		0.46	2.4	1
10225	PCB-1221	11104-28-2	0.70	U	0.70	2.4	1
10225	PCB-1232	11141-16-5	0.72	U	0.72	2.4	1
10225	PCB-1242	53469-21-9	0.70	U	0.70	2.4	1
10225	PCB-1248	12672-29-6	0.46	U	0.46	2.4	1
10225	PCB-1254	11097-69-1	8.9		0.46	2.4	1
10225	PCB-1260	11096-82-5	20		0.46	2.4	1
10225	PCB-1262	37324-23-5	0.46	U	0.46	2.4	1
10225	PCB-1268	11100-14-4	0.46	U	0.46	2.4	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,660		7.00	27.8	1
07914	Boron	7440-42-8	269		1.24	6.95	1
01650	Calcium	7440-70-2	2,560		8.53	27.8	1
01654	Iron	7439-89-6	9,440		6.55	27.8	1
01656	Lithium	7439-93-2	145		0.31	2.8	1
01657	Magnesium	7439-95-4	2,260		3.53	13.9	1
06958	Manganese	7439-96-5	204		0.108	0.695	1
10145	Phosphorus	7723-14-0	866		0.779	13.9	1
01662	Potassium	7440-09-7	3,780		25.0	69.5	1
01667	Sodium	7440-23-5	1,700		51.9	139	1
07968	Strontium	7440-24-6	148		0.0862	0.695	1
06969	Tin	7440-31-5	508		1.39	13.9	1
06970	Titanium	7440-32-6	1,590		2.64	6.95	5
10146	Zirconium	7440-67-7	130		1.17	6.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.769		0.0802	0.267	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.07		0.0802	0.535	2
06126	Barium	7440-39-3	85.2		0.144	0.535	2
06127	Beryllium	7440-41-7	1.71		0.0214	0.134	2
06128	Cadmium	7440-43-9	1.95		0.0481	0.134	2
06131	Chromium	7440-47-3	31.9		0.160	0.535	2
06132	Cobalt	7440-48-4	81.5		0.0267	0.134	2
06133	Copper	7440-50-8	24.3		0.0883	0.535	2
06135	Lead	7439-92-1	59.5		0.0139	0.267	2
06138	Molybdenum	7439-98-7	17.3		0.0669	0.134	2
06139	Nickel	7440-02-0	26.9		0.134	0.535	2
06141	Selenium	7782-49-2	2.92		0.0535	0.535	2
06142	Silver	7440-22-4	16.4		0.0160	0.134	2
06145	Thallium	7440-28-0	0.889		0.0401	0.134	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-215-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172061
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	43.3	0.0294	0.134	2
06149	Zinc	7440-66-6	77.0	0.749	4.01	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.234	0.0038	0.131	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.9	1.1	1.4	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	633	12.5	41.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	50.2	1.4	7.0	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	28.1	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 13:30	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 00:57	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 07:13	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/29/2011 01:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 09:07	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172061
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:15	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:20	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/10/2011 09:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/06/2011 10:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206B	01/14/2011 05:39	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204B	01/12/2011 07:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 20:34	Joseph E McKenzie	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206B	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-215-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172062
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	2,200		23	230	1
04688	Acenaphthylene	208-96-8	2,300		23	230	1
04688	Aniline	62-53-3	1,700		230	700	1
04688	Anthracene	120-12-7	2,200		23	230	1
04688	Benzidine	92-87-5	1,600	U	1,600	4,600	1
04688	Benzo(a)anthracene	56-55-3	2,200		23	230	1
04688	Benzo(a)pyrene	50-32-8	1,900		23	230	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		23	230	1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		23	230	1
04688	Benzo(k)fluoranthene	207-08-9	2,000		23	230	1
04688	Benzoic acid	65-85-0	2,400		230	700	1
04688	Benzyl alcohol	100-51-6	2,100		230	700	1
04688	4-Bromophenyl-phenylether	101-55-3	2,200		23	230	1
04688	Butylbenzylphthalate	85-68-7	2,400		23	230	1
04688	Di-n-butylphthalate	84-74-2	2,200		23	230	1
04688	Carbazole	86-74-8	2,200		23	230	1
04688	4-Chloro-3-methylphenol	59-50-7	2,000		46	230	1
04688	4-Chloroaniline	106-47-8	1,500		93	230	1
04688	bis(2-Chloroethoxy)methane	111-91-1	2,100		23	230	1
04688	bis(2-Chloroethyl)ether	111-44-4	2,100		23	230	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,100		23	230	1
04688	2-Chloronaphthalene	91-58-7	1,900		23	230	1
04688	2-Chlorophenol	95-57-8	2,200		23	230	1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,200		46	230	1
04688	Chrysene	218-01-9	2,200		23	230	1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		23	230	1
04688	Dibenzofuran	132-64-9	2,300		23	230	1
04688	1,2-Dichlorobenzene	95-50-1	2,000		23	230	1
04688	1,3-Dichlorobenzene	541-73-1	2,000		23	230	1
04688	1,4-Dichlorobenzene	106-46-7	2,000		23	230	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,700		140	460	1
04688	2,4-Dichlorophenol	120-83-2	2,200		23	230	1
04688	Diethylphthalate	84-66-2	2,200		23	230	1
04688	2,4-Dimethylphenol	105-67-9	2,200		46	230	1
04688	3,5-Dimethylphenol	108-68-9	2,300		46	230	1
04688	Dimethylphthalate	131-11-3	2,200		23	230	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600		230	700	1
04688	2,4-Dinitrophenol	51-28-5	2,900		930	2,800	1
04688	2,4-Dinitrotoluene	121-14-2	2,200		46	230	1
04688	2,6-Dinitrotoluene	606-20-2	2,200		23	230	1
04688	1,2-Diphenylhydrazine	122-66-7	2,300		23	230	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,300		23	460	1
04688	Fluoranthene	206-44-0	2,200		23	230	1
04688	Fluorene	86-73-7	2,200		23	230	1
04688	Hexachlorobenzene	118-74-1	2,200		23	230	1
04688	Hexachlorobutadiene	87-68-3	2,200		93	230	1
04688	Hexachlorocyclopentadiene	77-47-4	2,400		230	700	1
04688	Hexachloroethane	67-72-1	1,900		23	230	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		23	230	1
04688	Isophorone	78-59-1	2,100		23	230	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-215-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172062
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	2,200		23	230	1
04688	2-Methylnaphthalene	91-57-6	2,000		23	230	1
04688	2-Methylphenol	95-48-7	2,200		46	230	1
04688	4-Methylphenol	106-44-5	2,100		46	230	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	2,100		23	230	1
04688	2-Nitroaniline	88-74-4	2,300		23	230	1
04688	3-Nitroaniline	99-09-2	2,100		46	230	1
04688	4-Nitroaniline	100-01-6	2,000		93	230	1
04688	Nitrobenzene	98-95-3	2,200		23	230	1
04688	2-Nitrophenol	88-75-5	2,100		23	230	1
04688	4-Nitrophenol	100-02-7	2,100		230	700	1
04688	N-Nitrosodimethylamine	62-75-9	2,000		46	230	1
04688	N-Nitroso-di-n-propylamine	621-64-7	2,100		23	230	1
04688	N-Nitrosodiphenylamine	86-30-6	2,300		23	230	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000		23	230	1
04688	Pentachlorophenol	87-86-5	2,300		230	700	1
04688	Phenanthrene	85-01-8	2,100		23	230	1
04688	Phenol	108-95-2	2,100		23	230	1
04688	Pyrene	129-00-0	2,400		23	230	1
04688	1,2,4-Trichlorobenzene	120-82-1	2,200		23	230	1
04688	2,4,5-Trichlorophenol	95-95-4	2,200		46	230	1
04688	2,4,6-Trichlorophenol	88-06-2	2,300		46	230	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	38		4.6	12	5
10138	Acenaphthylene	208-96-8	39		2.3	12	5
10138	Anthracene	120-12-7	38		2.3	12	5
10138	Benzo(a)anthracene	56-55-3	44		4.6	12	5
10138	Benzo(a)pyrene	50-32-8	44		4.6	12	5
10138	Benzo(b)fluoranthene	205-99-2	76		4.6	12	5
10138	Benzo(g,h,i)perylene	191-24-2	22		4.6	12	5
10138	Benzo(k)fluoranthene	207-08-9	47		4.6	12	5
10138	Butylbenzylphthalate	85-68-7	51	J	42	130	5
10138	Di-n-butylphthalate	84-74-2	43	J	42	130	5
10138	Chrysene	218-01-9	60		2.3	12	5
10138	Dibenz(a,h)anthracene	53-70-3	20		4.6	12	5
10138	Diethylphthalate	84-66-2	42	U	42	130	5
10138	Dimethylphthalate	131-11-3	42	U	42	130	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	57	J	42	130	5
10138	Fluoranthene	206-44-0	56		4.6	12	5
10138	Fluorene	86-73-7	40		4.6	12	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23		4.6	12	5
10138	1-Methylnaphthalene	90-12-0	40		4.6	12	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-215-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172062
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	41		4.6	12	5
10138	Naphthalene	91-20-3	41		4.6	12	5
10138	N-Nitrosodimethylamine	62-75-9	40		4.6	12	5
10138	Di-n-octylphthalate	117-84-0	68	J	42	130	5
10138	Phenanthrene	85-01-8	49		4.6	12	5
10138	Pyrene	129-00-0	44		4.6	12	5

Reporting limits were raised due to interference from the sample matrix.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	13		1.7	5.0	1
10401	Dalapon	75-99-0	24		6.1	13	1
10401	2,4-DB	94-82-6	10		0.86	2.4	1
10401	Dicamba	1918-00-9	1.0	J	0.56	1.7	1
10401	Dinoseb	88-85-7	3.3	J	1.1	3.3	1
10401	2,4-DP (Dichlorprop)	120-36-5	12		1.1	2.4	1
10401	MCPA	94-74-6	1,300		110	350	1
10401	MCPP (Mecoprop)	93-65-2	930		100	350	1
10401	2,4,5-T	93-76-5	1.2		0.11	0.24	1
10401	2,4,5-TP	93-72-1	0.96		0.10	0.24	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.26		0.092	0.24	1
01363	Alpha BHC	319-84-6	0.21	J	0.047	0.24	1
01363	Beta BHC	319-85-7	1.1		0.083	0.24	1
01363	Gamma BHC - Lindane	58-89-9	0.19	J	0.047	0.24	1
01363	Chlordane	57-74-9	1.1	U	1.1	4.7	1
01363	p,p-DDD	72-54-8	0.38	J	0.092	0.47	1
01363	p,p-DDE	72-55-9	0.68		0.092	0.47	1
01363	p,p-DDT	50-29-3	3.1		0.092	0.47	1
01363	Delta BHC	319-86-8	0.22	J	0.050	0.24	1
01363	Dieldrin	60-57-1	0.50		0.092	0.47	1
01363	Endosulfan I	959-98-8	0.061	U	0.061	0.24	1
01363	Endosulfan II	33213-65-9	0.39	J	0.092	0.47	1
01363	Endosulfan Sulfate	1031-07-8	0.64		0.092	0.47	1
01363	Endrin	72-20-8	0.40	J	0.092	0.47	1
01363	Endrin Aldehyde	7421-93-4	0.19	J	0.092	0.47	1
01363	Endrin Ketone	53494-70-5	0.56		0.092	0.47	1
01363	Heptachlor	76-44-8	0.25		0.083	0.24	1
01363	Heptachlor Epoxide	1024-57-3	0.40		0.047	0.24	1
01363	Methoxychlor	72-43-5	0.96	J	0.47	2.3	1
01363	Mirex	2385-85-5	0.092	U	0.092	0.47	1
01363	Toxaphene	8001-35-2	3.1	U	3.1	9.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Sample Description: SL-215-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172062
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.4	U	1.4	4.6	1
10225	Aroclor 5442	12642-23-8	1.4	U	1.4	4.6	1
10225	Aroclor 5460	11126-42-4	4.7		1.4	4.6	1
10225	PCB-1016	12674-11-2	20		0.46	2.4	1
10225	PCB-1221	11104-28-2	0.70	U	0.70	2.4	1
10225	PCB-1232	11141-16-5	0.72	U	0.72	2.4	1
10225	PCB-1242	53469-21-9	0.70	U	0.70	2.4	1
10225	PCB-1248	12672-29-6	0.46	U	0.46	2.4	1
10225	PCB-1254	11097-69-1	13		0.46	2.4	1
10225	PCB-1260	11096-82-5	24		0.46	2.4	1
10225	PCB-1262	37324-23-5	0.46	U	0.46	2.4	1
10225	PCB-1268	11100-14-4	0.46	U	0.46	2.4	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		7.00	27.8	1
07914	Boron	7440-42-8	268		1.24	6.95	1
01650	Calcium	7440-70-2	3,390		8.53	27.8	1
01654	Iron	7439-89-6	13,200		6.55	27.8	1
01656	Lithium	7439-93-2	146		0.31	2.8	1
01657	Magnesium	7439-95-4	3,080		3.53	13.9	1
06958	Manganese	7439-96-5	259		0.108	0.695	1
10145	Phosphorus	7723-14-0	372		0.779	13.9	1
01662	Potassium	7440-09-7	3,860		25.0	69.5	1
01667	Sodium	7440-23-5	1,460		51.9	139	1
07968	Strontium	7440-24-6	151		0.0862	0.695	1
06969	Tin	7440-31-5	502		1.39	13.9	1
06970	Titanium	7440-32-6	1,520		2.64	6.95	5
10146	Zirconium	7440-67-7	135		1.17	6.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.814		0.0834	0.278	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.31		0.0834	0.556	2
06126	Barium	7440-39-3	87.9		0.150	0.556	2
06127	Beryllium	7440-41-7	1.86		0.0223	0.139	2
06128	Cadmium	7440-43-9	1.97		0.0501	0.139	2
06131	Chromium	7440-47-3	35.9		0.167	0.556	2
06132	Cobalt	7440-48-4	88.2		0.0278	0.139	2
06133	Copper	7440-50-8	25.7		0.0918	0.556	2
06135	Lead	7439-92-1	65.6		0.0145	0.278	2
06138	Molybdenum	7439-98-7	18.7		0.0695	0.139	2
06139	Nickel	7440-02-0	29.5		0.139	0.556	2
06141	Selenium	7782-49-2	3.09		0.0556	0.556	2
06142	Silver	7440-22-4	17.1		0.0167	0.139	2
06145	Thallium	7440-28-0	0.938		0.0417	0.139	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172062
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	49.8	0.0306	0.139	2
06149	Zinc	7440-66-6	81.8	0.779	4.17	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.226	0.0038	0.132	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	28.1	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 13:55	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 01:30	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 07:41	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/29/2011 01:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 09:26	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172062
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:19	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:24	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/10/2011 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/06/2011 10:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-215-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172063
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.86	27.3	1
07914	Boron	7440-42-8	6.62	J	1.21	6.82	1
01650	Calcium	7440-70-2	3,200		8.36	27.3	1
01654	Iron	7439-89-6	14,400		6.42	27.3	1
01656	Lithium	7439-93-2	14.4		0.30	2.7	1
01657	Magnesium	7439-95-4	3,040		3.46	13.6	1
06958	Manganese	7439-96-5	215		0.106	0.682	1
10145	Phosphorus	7723-14-0	292		0.764	13.6	1
01662	Potassium	7440-09-7	2,640		24.5	68.2	1
01667	Sodium	7440-23-5	92.0	J	50.9	136	1
07968	Strontium	7440-24-6	21.6		0.0845	0.682	1
06969	Tin	7440-31-5	2.34	J	1.36	13.6	1
06970	Titanium	7440-32-6	1,050		0.529	1.39	1
10146	Zirconium	7440-67-7	3.31	J	1.15	6.82	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0795	0.265	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.31		0.0795	0.530	2
06126	Barium	7440-39-3	85.0		0.143	0.530	2
06127	Beryllium	7440-41-7	0.539		0.0212	0.132	2
06128	Cadmium	7440-43-9	0.303		0.0477	0.132	2
06131	Chromium	7440-47-3	17.5		0.159	0.530	2
06132	Cobalt	7440-48-4	5.55		0.0265	0.132	2
06133	Copper	7440-50-8	10.3		0.0874	0.530	2
06135	Lead	7439-92-1	59.1		0.0138	0.265	2
06138	Molybdenum	7439-98-7	0.645		0.0662	0.132	2
06139	Nickel	7440-02-0	11.9		0.132	0.530	2
06141	Selenium	7782-49-2	0.199	J	0.0530	0.530	2
06142	Silver	7440-22-4	0.240		0.0159	0.132	2
06145	Thallium	7440-28-0	0.234		0.0397	0.132	2
06148	Vanadium	7440-62-2	29.9		0.0291	0.132	2
06149	Zinc	7440-66-6	67.0		0.742	3.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0141	J	0.0037	0.129	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		1.1	1.4	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	12.5	U	12.5	41.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.28	1.4	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-215-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172063
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	480	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.28	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	28.1	0.50	0.50	1
11626	28a Moisture Content by 160.3	n.a.	29.0	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:11	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:17	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/10/2011 09:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-215-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172063
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL215 SDG#: DE047-06DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/06/2011 10:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206B	01/14/2011 04:43	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204B	01/12/2011 06:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 21:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206B	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	10361182101B	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401B	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-216-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172064
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE047-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	620	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100	1
04688	Benzo(b)fluoranthene	205-99-2	27	J	21	210	1
04688	Benzoic acid	65-85-0	210	U	210	620	1
04688	Benzyl alcohol	100-51-6	210	U	210	620	1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210	1
04688	Carbazole	86-74-8	21	U	21	210	1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210	1
04688	4-Chloroaniline	106-47-8	83	U	83	210	1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210	1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210	1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210	1
04688	2-Chlorophenol	95-57-8	21	U	21	210	1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210	1
04688	Dibenzofuran	132-64-9	21	U	21	210	1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210	1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210	1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410	1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210	1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210	1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620	1
04688	2,4-Dinitrophenol	51-28-5	830	U	830	2,500	1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210	1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210	1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	120	J	21	410	1
04688	Hexachlorobenzene	118-74-1	21	U	21	210	1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210	1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620	1
04688	Hexachloroethane	67-72-1	21	U	21	210	1
04688	Isophorone	78-59-1	21	U	21	210	1
04688	2-Methylphenol	95-48-7	41	U	41	210	1
04688	4-Methylphenol	106-44-5	41	U	41	210	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	21	U	21	210	1
04688	3-Nitroaniline	99-09-2	41	U	41	210	1
04688	4-Nitroaniline	100-01-6	83	U	83	210	1
04688	Nitrobenzene	98-95-3	21	U	21	210	1
04688	2-Nitrophenol	88-75-5	21	U	21	210	1
04688	4-Nitrophenol	100-02-7	210	U	210	620	1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210	1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-216-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172064
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE047-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	210	U	210	620	1
04688	Phenol	108-95-2	21	U	21	210	1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210	1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210	1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.83	U	0.83	2.1	1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.1	1
10138	Anthracene	120-12-7	0.47	J	0.41	2.1	1
10138	Benzo(a)anthracene	56-55-3	3.9		0.83	2.1	1
10138	Benzo(a)pyrene	50-32-8	6.0		0.83	2.1	1
10138	Benzo(g,h,i)perylene	191-24-2	3.2		0.83	2.1	1
10138	Benzo(k)fluoranthene	207-08-9	0.83	U	0.83	2.1	1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22	1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22	1
10138	Chrysene	218-01-9	8.0		0.41	2.1	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.83	2.1	1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22	1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22	1
10138	Fluoranthene	206-44-0	2.9		0.83	2.1	1
10138	Fluorene	86-73-7	0.83	U	0.83	2.1	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7		0.83	2.1	1
10138	1-Methylnaphthalene	90-12-0	0.95	J	0.83	2.1	1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.83	2.1	1
10138	Naphthalene	91-20-3	1.3	J	0.83	2.1	1
10138	N-Nitrosodimethylamine	62-75-9	0.83	U	0.83	2.1	1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22	1
10138	Phenanthrene	85-01-8	2.5		0.83	2.1	1
10138	Pyrene	129-00-0	3.3		0.83	2.1	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5	1
10401	Dalapon	75-99-0	5.4	U	5.4	11	1
10401	2,4-DB	94-82-6	1.9	U	1.9	2.1	1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.5	1
10401	Dinoseb	88-85-7	0.99	U	0.99	3.0	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.99	U	0.99	2.1	1
10401	MCPA	94-74-6	94	U	94	310	1
10401	MCPP (Mecoprop)	93-65-2	93	U	93	310	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21	1
10401	2,4,5-TP	93-72-1	0.17	J	0.093	0.21	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these

Sample Description: **SL-216-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172064
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE047-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	cases, the reporting limits have been raised. The following compound was affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21	1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.21	1
01363	Beta BHC	319-85-7	0.12	J	0.074	0.21	1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.21	1
01363	Chlordane	57-74-9	0.99	U	0.99	4.2	1
01363	p,p-DDD	72-54-8	0.087	U	0.087	0.42	1
01363	p,p-DDE	72-55-9	0.82		0.082	0.42	1
01363	p,p-DDT	50-29-3	0.34	J	0.082	0.42	1
01363	Delta BHC	319-86-8	0.045	U	0.045	0.21	1
01363	Dieldrin	60-57-1	0.082	U	0.082	0.42	1
01363	Endosulfan I	959-98-8	0.054	U	0.054	0.21	1
01363	Endosulfan II	33213-65-9	0.082	U	0.082	0.42	1
01363	Endosulfan Sulfate	1031-07-8	0.082	U	0.082	0.42	1
01363	Endrin	72-20-8	0.082	U	0.082	0.42	1
01363	Endrin Aldehyde	7421-93-4	0.082	U	0.082	0.42	1
01363	Endrin Ketone	53494-70-5	0.082	U	0.082	0.42	1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.21	1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.21	1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1	1
01363	Mirex	2385-85-5	0.082	U	0.082	0.42	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.2	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1	1
10225	Aroclor 5460	11126-42-4	3.1	J	1.2	4.1	1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1	1
10225	PCB-1221	11104-28-2	0.62	U	0.62	2.1	1
10225	PCB-1232	11141-16-5	0.64	U	0.64	2.1	1
10225	PCB-1242	53469-21-9	0.62	U	0.62	2.1	1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1	1
10225	PCB-1254	11097-69-1	1.9	J	0.41	2.1	1
10225	PCB-1260	11096-82-5	1.5	J	0.41	2.1	1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1	1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-216-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172064
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE047-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.04	24.0	1
07914	Boron	7440-42-8	7.83		1.07	6.01	1
01650	Calcium	7440-70-2	2,990		7.37	24.0	1
01654	Iron	7439-89-6	16,200		5.66	24.0	1
01656	Lithium	7439-93-2	15.9		0.26	2.4	1
01657	Magnesium	7439-95-4	3,360		3.05	12.0	1
06958	Manganese	7439-96-5	293		0.0937	0.601	1
10145	Phosphorus	7723-14-0	293		0.673	12.0	1
01662	Potassium	7440-09-7	3,570		21.6	60.1	1
01667	Sodium	7440-23-5	96.3	J	44.8	120	1
07968	Strontium	7440-24-6	25.6		0.0745	0.601	1
06969	Tin	7440-31-5	2.45	J	1.20	12.0	1
06970	Titanium	7440-32-6	1,160		0.461	1.21	1
10146	Zirconium	7440-67-7	3.22	J	1.01	6.01	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0826	J	0.0728	0.243	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.39		0.0728	0.485	2
06126	Barium	7440-39-3	89.5		0.131	0.485	2
06127	Beryllium	7440-41-7	0.568		0.0194	0.121	2
06128	Cadmium	7440-43-9	0.434		0.0437	0.121	2
06131	Chromium	7440-47-3	17.3		0.146	0.485	2
06132	Cobalt	7440-48-4	5.99		0.0243	0.121	2
06133	Copper	7440-50-8	10.2		0.0801	0.485	2
06135	Lead	7439-92-1	18.1		0.0126	0.243	2
06138	Molybdenum	7439-98-7	0.742		0.0607	0.121	2
06139	Nickel	7440-02-0	13.0		0.121	0.485	2
06141	Selenium	7782-49-2	0.164	J	0.0485	0.485	2
06142	Silver	7440-22-4	0.0874	J	0.0146	0.121	2
06145	Thallium	7440-28-0	0.291		0.0364	0.121	2
06148	Vanadium	7440-62-2	30.1		0.0267	0.121	2
06149	Zinc	7440-66-6	72.6		0.679	3.64	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0214	J	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.99	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1	U	11.1	37.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.68	J	0.25	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-216-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172064
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE047-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	485	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.84	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	19.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 16:02	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 04:12	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 08:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/29/2011 01:49	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 09:44	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-216-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172064
LLI Group # 1226679
Account # 13013

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL216 SDG#: DE047-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:50	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/06/2011 10:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/06/2011 10:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206B	01/14/2011 06:16	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204B	01/12/2011 08:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 21:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206B	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	10361182101B	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401B	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-217-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172065
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL217 SDG#: DE047-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	230	U	230	700	1
04688	Benzidine	92-87-5	1,600	U	1,600	4,700	1
04688	Benzoic acid	65-85-0	230	U	230	700	1
04688	Benzyl alcohol	100-51-6	230	U	230	700	1
04688	4-Bromophenyl-phenylether	101-55-3	23	U	23	230	1
04688	Butylbenzylphthalate	85-68-7	87	J	23	230	1
04688	Di-n-butylphthalate	84-74-2	23	U	23	230	1
04688	Carbazole	86-74-8	60	J	23	230	1
04688	4-Chloro-3-methylphenol	59-50-7	47	U	47	230	1
04688	4-Chloroaniline	106-47-8	93	U	93	230	1
04688	bis(2-Chloroethoxy)methane	111-91-1	23	U	23	230	1
04688	bis(2-Chloroethyl)ether	111-44-4	23	U	23	230	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	23	U	23	230	1
04688	2-Chloronaphthalene	91-58-7	23	U	23	230	1
04688	2-Chlorophenol	95-57-8	23	U	23	230	1
04688	4-Chlorophenyl-phenylether	7005-72-3	47	U	47	230	1
04688	Dibenzofuran	132-64-9	240		23	230	1
04688	1,2-Dichlorobenzene	95-50-1	23	U	23	230	1
04688	1,3-Dichlorobenzene	541-73-1	23	U	23	230	1
04688	1,4-Dichlorobenzene	106-46-7	23	U	23	230	1
04688	3,3'-Dichlorobenzidine	91-94-1	140	U	140	470	1
04688	2,4-Dichlorophenol	120-83-2	23	U	23	230	1
04688	Diethylphthalate	84-66-2	23	U	23	230	1
04688	2,4-Dimethylphenol	105-67-9	47	U	47	230	1
04688	3,5-Dimethylphenol	108-68-9	47	U	47	230	1
04688	Dimethylphthalate	131-11-3	23	U	23	230	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	230	U	230	700	1
04688	2,4-Dinitrophenol	51-28-5	930	U	930	2,800	1
04688	2,4-Dinitrotoluene	121-14-2	47	U	47	230	1
04688	2,6-Dinitrotoluene	606-20-2	23	U	23	230	1
04688	1,2-Diphenylhydrazine	122-66-7	23	U	23	230	1
04688	Hexachlorobenzene	118-74-1	500		23	230	1
04688	Hexachlorobutadiene	87-68-3	93	U	93	230	1
04688	Hexachlorocyclopentadiene	77-47-4	230	U	230	700	1
04688	Hexachloroethane	67-72-1	23	U	23	230	1
04688	Isophorone	78-59-1	23	U	23	230	1
04688	2-Methylphenol	95-48-7	47	U	47	230	1
04688	4-Methylphenol	106-44-5	47	U	47	230	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	23	U	23	230	1
04688	3-Nitroaniline	99-09-2	47	U	47	230	1
04688	4-Nitroaniline	100-01-6	93	U	93	230	1
04688	Nitrobenzene	98-95-3	23	U	23	230	1
04688	2-Nitrophenol	88-75-5	23	U	23	230	1
04688	4-Nitrophenol	100-02-7	230	U	230	700	1
04688	N-Nitroso-di-n-propylamine	621-64-7	23	U	23	230	1
04688	N-Nitrosodiphenylamine	86-30-6	23	U	23	230	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-217-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172065
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL217 SDG#: DE047-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	230	U	230	700	1
04688	Phenol	108-95-2	23	U	23	230	1
04688	1,2,4-Trichlorobenzene	120-82-1	23	U	23	230	1
04688	2,4,5-Trichlorophenol	95-95-4	47	U	47	230	1
04688	2,4,6-Trichlorophenol	88-06-2	47	U	47	230	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	23		4.7	12	5
10138	Acenaphthylene	208-96-8	160		2.3	12	5
10138	Anthracene	120-12-7	380		2.3	12	5
10138	Benzo(a)anthracene	56-55-3	1,500		4.7	12	5
10138	Benzo(a)pyrene	50-32-8	17,000		230	580	250
10138	Benzo(b)fluoranthene	205-99-2	20,000		230	580	250
10138	Benzo(g,h,i)perylene	191-24-2	53,000		230	580	250
10138	Benzo(k)fluoranthene	207-08-9	4,900		230	580	250
10138	Chrysene	218-01-9	3,700		120	580	250
10138	Dibenz(a,h)anthracene	53-70-3	1,600		4.7	12	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	810		42	130	5
10138	Fluoranthene	206-44-0	6,800		230	580	250
10138	Fluorene	86-73-7	40		4.7	12	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	49,000		230	580	250
10138	1-Methylnaphthalene	90-12-0	550		4.7	12	5
10138	2-Methylnaphthalene	91-57-6	700		4.7	12	5
10138	Naphthalene	91-20-3	690		4.7	12	5
10138	N-Nitrosodimethylamine	62-75-9	4.7	U	4.7	12	5
10138	Di-n-octylphthalate	117-84-0	210		42	130	5
10138	Phenanthrene	85-01-8	2,900		230	580	250
10138	Pyrene	129-00-0	9,300		230	580	250
	Reporting limits were raised due to interference from the sample matrix.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.7	U	1.7	5.0	1
10401	Dalapon	75-99-0	6.2	U	6.2	13	1
10401	2,4-DB	94-82-6	17		0.87	2.4	1
10401	Dicamba	1918-00-9	0.56	U	0.56	1.7	1
10401	Dinoseb	88-85-7	1.1	U	1.1	3.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.5	J	1.1	2.4	1
10401	MCPA	94-74-6	550		110	350	1
10401	MCPP (Mecoprop)	93-65-2	100	U	100	350	1
10401	2,4,5-T	93-76-5	0.78		0.11	0.24	1
10401	2,4,5-TP	93-72-1	0.57		0.10	0.24	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory						

Sample Description: **SL-217-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172065
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL217 SDG#: DE047-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	statistical limits of 0-36%, the data is reported.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.9	U	2.9	7.0	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.46	U	0.46	1.2	5
01363	Alpha BHC	319-84-6	0.24	U	0.24	1.2	5
01363	Beta BHC	319-85-7	0.42	U	0.42	1.2	5
01363	Gamma BHC - Lindane	58-89-9	0.24	U	0.24	1.2	5
01363	Chlordane	57-74-9	17	U	17	24	5
01363	p,p-DDD	72-54-8	0.46	U	0.46	2.4	5
01363	p,p-DDE	72-55-9	0.46	U	0.46	2.4	5
01363	p,p-DDT	50-29-3	1.6	U	1.6	2.4	5
01363	Delta BHC	319-86-8	0.25	U	0.25	1.2	5
01363	Dieldrin	60-57-1	0.67	U	0.67	2.4	5
01363	Endosulfan I	959-98-8	0.31	U	0.31	1.2	5
01363	Endosulfan II	33213-65-9	0.71	U	0.71	2.4	5
01363	Endosulfan Sulfate	1031-07-8	0.46	U	0.46	2.4	5
01363	Endrin	72-20-8	0.46	U	0.46	2.4	5
01363	Endrin Aldehyde	7421-93-4	2.1	U	2.1	2.4	5
01363	Endrin Ketone	53494-70-5	0.46	U	0.46	2.4	5
01363	Heptachlor	76-44-8	0.42	U	0.42	1.2	5
01363	Heptachlor Epoxide	1024-57-3	1.4	U	1.4	1.4	5
01363	Methoxychlor	72-43-5	2.4	U	2.4	12	5
01363	Mirex	2385-85-5	4.1	U	4.1	4.1	5
01363	Toxaphene	8001-35-2	15	U	15	46	5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
	Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	14	U	14	46	10
10225	Aroclor 5442	12642-23-8	14	U	14	46	10
10225	Aroclor 5460	11126-42-4	45	J	14	46	10
10225	PCB-1016	12674-11-2	4.6	U	4.6	24	10
10225	PCB-1221	11104-28-2	7.0	U	7.0	24	10
10225	PCB-1232	11141-16-5	7.3	U	7.3	24	10
10225	PCB-1242	53469-21-9	7.0	U	7.0	24	10
10225	PCB-1248	12672-29-6	4.6	U	4.6	24	10
10225	PCB-1254	11097-69-1	84		4.6	24	10
10225	PCB-1260	11096-82-5	60		4.6	24	10
10225	PCB-1262	37324-23-5	4.6	U	4.6	24	10
10225	PCB-1268	11100-14-4	4.6	U	4.6	24	10

*=This limit was used in the evaluation of the final result

Sample Description: **SL-217-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172065
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL217 SDG#: DE047-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		6.83	27.2	1
07914	Boron	7440-42-8	16.9		1.21	6.79	1
01650	Calcium	7440-70-2	3,790		8.32	27.2	1
01654	Iron	7439-89-6	17,600		6.40	27.2	1
01656	Lithium	7439-93-2	17.8		0.30	2.7	1
01657	Magnesium	7439-95-4	3,250		3.45	13.6	1
06958	Manganese	7439-96-5	223		0.106	0.679	1
10145	Phosphorus	7723-14-0	411		0.760	13.6	1
01662	Potassium	7440-09-7	2,280		24.4	67.9	1
01667	Sodium	7440-23-5	204		50.6	136	1
07968	Strontium	7440-24-6	25.6		0.0842	0.679	1
06969	Tin	7440-31-5	3.10	J	1.36	13.6	1
06970	Titanium	7440-32-6	922		0.516	1.36	1
10146	Zirconium	7440-67-7	3.91	J	1.14	6.79	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.534		0.0799	0.266	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.18		0.0799	0.533	2
06126	Barium	7440-39-3	69.9		0.144	0.533	2
06127	Beryllium	7440-41-7	0.531		0.0213	0.133	2
06128	Cadmium	7440-43-9	1.88		0.0480	0.133	2
06131	Chromium	7440-47-3	31.9		0.160	0.533	2
06132	Cobalt	7440-48-4	6.41		0.0266	0.133	2
06133	Copper	7440-50-8	42.6		0.0879	0.533	2
06135	Lead	7439-92-1	48.7		0.0139	0.266	2
06138	Molybdenum	7439-98-7	1.69		0.0666	0.133	2
06139	Nickel	7440-02-0	33.6		0.133	0.533	2
06141	Selenium	7782-49-2	0.729		0.0533	0.533	2
06142	Silver	7440-22-4	1.77		0.0160	0.133	2
06145	Thallium	7440-28-0	0.379		0.0400	0.133	2
06148	Vanadium	7440-62-2	28.5		0.0293	0.133	2
06149	Zinc	7440-66-6	758		3.73	20.0	10
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.386		0.0038	0.132	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		1.1	1.4	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	12.6	U	12.6	42.0	1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-217-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172065
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL217 SDG#: DE047-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.28	1.4	1
	ASTM D1498		mV		mV	mV	
01821	32a OR Potential	n.a.	505		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.49		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11624	28a Moisture Content by 160.3	n.a.	28.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 16:27	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 11:15	Joseph M Gambler	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/10/2011 00:33	Gregory J Drahovsky	250
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/10/2011 00:33	Joseph M Gambler	250
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 08:37	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 16:32	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/29/2011 02:19	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 14:39	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-217-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172065
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL217 SDG#: DE047-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:54	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/06/2011 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/10/2011 09:43	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206B	01/14/2011 06:34	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204B	01/12/2011 08:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 22:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206B	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-217-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172065
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL217 SDG#: DE047-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	10361182101B	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401B	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-255-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172066
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE047-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	620	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100	1
04688	Benzoic acid	65-85-0	210	U	210	620	1
04688	Benzyl alcohol	100-51-6	210	U	210	620	1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210	1
04688	Carbazole	86-74-8	21	U	21	210	1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210	1
04688	4-Chloroaniline	106-47-8	82	U	82	210	1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210	1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210	1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210	1
04688	2-Chlorophenol	95-57-8	21	U	21	210	1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210	1
04688	Dibenzofuran	132-64-9	21	U	21	210	1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210	1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210	1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410	1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210	1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210	1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620	1
04688	2,4-Dinitrophenol	51-28-5	820	U	820	2,500	1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210	1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210	1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	21	410	1
04688	Hexachlorobenzene	118-74-1	21	U	21	210	1
04688	Hexachlorobutadiene	87-68-3	82	U	82	210	1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620	1
04688	Hexachloroethane	67-72-1	21	U	21	210	1
04688	Isophorone	78-59-1	21	U	21	210	1
04688	2-Methylphenol	95-48-7	41	U	41	210	1
04688	4-Methylphenol	106-44-5	41	U	41	210	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	21	U	21	210	1
04688	3-Nitroaniline	99-09-2	41	U	41	210	1
04688	4-Nitroaniline	100-01-6	82	U	82	210	1
04688	Nitrobenzene	98-95-3	21	U	21	210	1
04688	2-Nitrophenol	88-75-5	21	U	21	210	1
04688	4-Nitrophenol	100-02-7	210	U	210	620	1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210	1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	210	U	210	620	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-255-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172066
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE047-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	21	U	21	210	1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210	1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210	1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.1	1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.1	1
10138	Anthracene	120-12-7	0.41	U	0.41	2.1	1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.82	2.1	1
10138	Benzo(a)pyrene	50-32-8	3.4		0.82	2.1	1
10138	Benzo(b)fluoranthene	205-99-2	5.6		0.82	2.1	1
10138	Benzo(g,h,i)perylene	191-24-2	7.4		0.82	2.1	1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.82	2.1	1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22	1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22	1
10138	Chrysene	218-01-9	3.2		0.41	2.1	1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.1	1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22	1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22	1
10138	Fluoranthene	206-44-0	2.8		0.82	2.1	1
10138	Fluorene	86-73-7	0.82	U	0.82	2.1	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.6		0.82	2.1	1
10138	1-Methylnaphthalene	90-12-0	1.5	J	0.82	2.1	1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.82	2.1	1
10138	Naphthalene	91-20-3	1.4	J	0.82	2.1	1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.1	1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22	1
10138	Phenanthrene	85-01-8	2.8		0.82	2.1	1
10138	Pyrene	129-00-0	3.5		0.82	2.1	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.4	1
10401	Dalapon	75-99-0	5.4	U	5.4	11	1
10401	2,4-DB	94-82-6	0.76	U	0.76	2.1	1
10401	Dicamba	1918-00-9	0.49	U	0.49	1.5	1
10401	Dinoseb	88-85-7	0.98	U	0.98	3.0	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.98	U	0.98	2.1	1
10401	MCPA	94-74-6	93	U	93	310	1
10401	MCPP (Mecoprop)	93-65-2	92	U	92	310	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21	1
10401	2,4,5-TP	93-72-1	0.20	J	0.092	0.21	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.081	U	0.081	0.20	1
01363	Alpha BHC	319-84-6	0.058	J	0.042	0.20	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: SL-255-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172066
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE047-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.074	U	0.074	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.20	1
01363	Chlordane	57-74-9	3.9	U	3.9	4.2	1
01363	p,p-DDD	72-54-8	1.1	U	1.1	1.1	1
01363	p,p-DDE	72-55-9	0.41	U	0.41	0.42	1
01363	p,p-DDT	50-29-3	0.33	U	0.33	0.42	1
01363	Delta BHC	319-86-8	0.044	U	0.044	0.20	1
01363	Dieldrin	60-57-1	0.081	U	0.081	0.42	1
01363	Endosulfan I	959-98-8	0.054	U	0.054	0.20	1
01363	Endosulfan II	33213-65-9	0.081	U	0.081	0.42	1
01363	Endosulfan Sulfate	1031-07-8	0.081	U	0.081	0.42	1
01363	Endrin	72-20-8	0.081	U	0.081	0.42	1
01363	Endrin Aldehyde	7421-93-4	0.092	U	0.092	0.42	1
01363	Endrin Ketone	53494-70-5	0.081	U	0.081	0.42	1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.20	1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.0	1
01363	Mirex	2385-85-5	0.081	U	0.081	0.42	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1	1
10225	Aroclor 5460	11126-42-4	1.5	J	1.2	4.1	1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1	1
10225	PCB-1221	11104-28-2	0.62	U	0.62	2.1	1
10225	PCB-1232	11141-16-5	0.64	U	0.64	2.1	1
10225	PCB-1242	53469-21-9	0.62	U	0.62	2.1	1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1	1
10225	PCB-1254	11097-69-1	1.0	J	0.41	2.1	1
10225	PCB-1260	11096-82-5	0.76	J	0.41	2.1	1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1	1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.13	24.4	1
07914	Boron	7440-42-8	13.1		1.08	6.09	1
01650	Calcium	7440-70-2	1,950		7.47	24.4	1
01654	Iron	7439-89-6	67,300		28.7	122	5
01656	Lithium	7439-93-2	15.6		0.27	2.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-255-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172066
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE047-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	3,220		3.09	12.2	1
06958	Manganese	7439-96-5	315		0.0950	0.609	1
10145	Phosphorus	7723-14-0	778		0.682	12.2	1
01662	Potassium	7440-09-7	3,330		21.9	60.9	1
01667	Sodium	7440-23-5	78.5	J	45.4	122	1
07968	Strontium	7440-24-6	18.7		0.0755	0.609	1
06969	Tin	7440-31-5	2.71	J	1.22	12.2	1
06970	Titanium	7440-32-6	1,070		0.467	1.23	1
10146	Zirconium	7440-67-7	4.80	J	1.02	6.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0724	0.241	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.37		0.0724	0.482	2
06126	Barium	7440-39-3	107		0.130	0.482	2
06127	Beryllium	7440-41-7	0.669		0.0193	0.121	2
06128	Cadmium	7440-43-9	0.316		0.0434	0.121	2
06131	Chromium	7440-47-3	22.0		0.145	0.482	2
06132	Cobalt	7440-48-4	7.20		0.0241	0.121	2
06133	Copper	7440-50-8	12.1		0.0796	0.482	2
06135	Lead	7439-92-1	18.6		0.0125	0.241	2
06138	Molybdenum	7439-98-7	0.871		0.0603	0.121	2
06139	Nickel	7440-02-0	15.1		0.121	0.482	2
06141	Selenium	7782-49-2	0.198	J	0.0482	0.482	2
06142	Silver	7440-22-4	0.0823	J	0.0145	0.121	2
06145	Thallium	7440-28-0	0.324		0.0362	0.121	2
06148	Vanadium	7440-62-2	38.6		0.0265	0.121	2
06149	Zinc	7440-66-6	72.4		0.675	3.62	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.98	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1	U	11.1	36.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.6		0.25	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	504		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-255-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172066
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE047-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.42	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	18.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLI026	01/18/2011 16:53	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLL026	01/08/2011 11:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLL026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLI026	12/29/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103650020A	01/07/2011 09:06	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103630019A	01/29/2011 02:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103610033A	01/06/2011 10:21	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103630019A	12/30/2010 07:50	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103610033A	12/28/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103650020A	01/03/2011 23:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708003	01/04/2011 11:30	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-255-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172066
LLI Group # 1226679
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/08/2011 12:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL255 SDG#: DE047-09*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	110045708001	01/06/2011 01:56	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103635708003	12/30/2010 22:57	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026001D	01/06/2011 10:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026001C	01/06/2011 10:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026001B	01/06/2011 10:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026001A	01/06/2011 10:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711001	01/02/2011 12:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708003	12/29/2010 09:40	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110045708001	01/04/2011 20:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026001	12/29/2010 10:16	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711001	12/30/2010 10:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11010010206B	01/14/2011 06:52	Nicole M Kepley	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010204B	01/12/2011 08:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243201A	01/17/2011 22:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11010010206B	01/10/2011 21:35	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010204B	01/10/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	10361182101B	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401B	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243201A	01/12/2011 20:30	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10356WAM026	Sample number(s): 6172056									
Acenaphthene	0.010	U	0.010	0.050	ug/l	91	95	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	94	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	91	96	66-111	5	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	89	92	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	83	84	64-115	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	88	89	69-123	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	92	93	68-125	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	91	92	72-122	0	30
Butylbenzylphthalate	0.10	J	0.050	1.0	ug/l	92	88	70-130	4	30
Di-n-butylphthalate	0.15	J	0.050	1.0	ug/l	95	94	70-130	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	90	92	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	89	91	71-125	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	107	101	70-130	6	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	91	81	70-130	12	30
Bis(2-Ethylhexyl)phthalate	0.11	J	0.050	1.0	ug/l	84	89	70-130	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	92	95	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	93	94	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	88	89	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	93	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	82	83	75-115	1	30
Naphthalene	0.010	U	0.010	0.050	ug/l	87	90	72-109	3	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	72	74	70-130	2	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	74	77	70-130	4	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	87	89	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	87	90	69-118	3	30
Batch number: 10356WAN026	Sample number(s): 6172056									
Aniline	1	U	1.	5	ug/l	70	62	49-101	11	30
Benzidine	20	U	20.	60	ug/l	60	49	20-109	20	30
Benzoic acid	6	U	6.	15	ug/l	24	53	10-69	76*	30
Benzyl alcohol	5	U	5.	15	ug/l	89	86	66-97	3	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	100	82-117	6	30
Carbazole	1	U	1.	5	ug/l	99	101	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	97	99	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	60	49	42-124	21	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	95	98	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	96	97	77-108	1	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	94	96	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	82	83	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	97	97	77-108	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	97	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	100	100	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	92	67-108	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	89	89	63-110	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	90	88	65-113	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	66	62	49-111	6	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dichlorophenol	1	U	1.	5	ug/l	100	101	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	95	97	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	104	106	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	91	94	78-119	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	88	94	64-120	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	103	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	103	102	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	102	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	98	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	89	87	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	55	56	10-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	85	80	52-113	6	30
Isophorone	1	U	1.	5	ug/l	96	100	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	92	92	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	85	83	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	103	102	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	97	97	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	84	84	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	95	98	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	97	102	86-120	5	30
4-Nitrophenol	10	U	10.	30	ug/l	45	46	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	97	96	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	91	92	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	97	99	53-110	2	30
Phenol	1	U	1.	5	ug/l	48	48	29-67	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	92	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	99	102	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	97	102	81-113	5	30

Batch number: 10362SLI026 Sample number(s): 6172055,6172057-6172062,6172064-6172066

Acenaphthene	17	U	17.	170	ug/kg	97	76-111
Acenaphthylene	17	U	17.	170	ug/kg	99	75-122
Aniline	170 U		170.	500	ug/kg	60	10-107
Anthracene	17	U	17.	170	ug/kg	98	76-112
Benzidine	1,200 U		1,200.	3,300	ug/kg	50	15-121
Benzo(a)anthracene	17	U	17.	170	ug/kg	97	73-112
Benzo(a)pyrene	17	U	17.	170	ug/kg	85	69-122
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	89	61-127
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	80	65-122
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	81	67-125
Benzoic acid	170 U		170.	500	ug/kg	107	10-154
Benzyl alcohol	170 U		170.	500	ug/kg	94	68-111
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98	79-117
Butylbenzylphthalate	17	U	17.	170	ug/kg	94	75-115
Di-n-butylphthalate	17	U	17.	170	ug/kg	97	79-112
Carbazole	17	U	17.	170	ug/kg	99	77-113
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98	74-119
4-Chloroaniline	67	U	67.	170	ug/kg	34	10-110
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94	70-118
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91	70-104
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	92	68-131
2-Chloronaphthalene	17	U	17.	170	ug/kg	91	67-127
2-Chlorophenol	17	U	17.	170	ug/kg	98	72-112
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	93	79-110

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	82		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	59		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	92		75-117		
Fluoranthene	17	U	17.	170	ug/kg	103		78-116		
Fluorene	17	U	17.	170	ug/kg	96		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	80		64-119		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	97		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	91		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
Naphthalene	17	U	17.	170	ug/kg	96		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	76		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	86		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	110*		35-106		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	96		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 10362SLL026	Sample number(s): 6172055,6172057-6172062,6172064-6172066									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	83		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	91		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	85		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	115		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	87		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	83		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	99		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	97		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	90		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	86		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	81		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	93		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	89		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	86		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	93		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 103560021A	Sample number(s): 6172056									
2,4-D	0.16	U	0.16	0.50	ug/l	140*	148*	45-128	6	30
Dalapon	0.25	U	0.25	1.3	ug/l	98	100	40-100	2	30
2,4-DB	0.30	U	0.30	1.0	ug/l	108	112	41-138	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	112	51-144	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	60	67	23-93	11	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	160*	168*	72-145	5	30
MCPA	300 U		300.	1,000	ug/l	116	124	69-129	7	30
MCPP	50	U	50.	200	ug/l	96	104	66-132	8	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	112	112	53-141	0	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	108	116	56-135	7	30
Batch number: 103650020A	Sample number(s): 6172055,6172057-6172062,6172064-6172066									
2,4-D	1.2	U	1.2	3.6	ug/kg	104		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	92*		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	86		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	89		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		60-141		
MCPA	76	U	76.	250	ug/kg	87		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	85		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	93		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		48-138		
Batch number: 110040016A	Sample number(s): 6172065									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 103610002A	Sample number(s): 6172056									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	58*	64*	75-125	10	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	76	76	68-119	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	124*	112	68-121	10	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103610003A	Sample number(s): 6172056									
Aldrin	0.0020	U	0.0020	0.010	ug/l	72	76	54-159	5	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	122	153*	59-146	22	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	94	113	73-147	19	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	96	111	68-128	15	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	130	71-139	12	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	95	105	66-130	11	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	75	85	53-126	13	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	98	113	76-148	15	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	95	110	76-132	15	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	74	82	68-128	10	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	85	95	59-144	11	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	95	105	71-142	10	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	95	52-132	11	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	100	110	68-139	10	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	95	105	69-146	10	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	80	88	57-126	10	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	99	112	73-156	13	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	90	100	52-133	11	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103610033A	Sample number(s): 6172055,6172057-6172062,6172064-6172066									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	68*	71*	75-125	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	103		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	126		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103630019A	Sample number(s): 6172055,6172057-6172062,6172064-6172066									
Aldrin	0.066	U	0.066	0.17	ug/kg	109		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	67		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	75		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	73		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	88		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	114		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	78		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	88		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	73		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	105		63-127		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	115		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	82		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	88		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	106		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	79		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	81		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103575713005	Sample number(s): 6172056									
Mercury	0.000050 U		0.00005 0	0.00020	mg/l	106	103	80-120	2	20
Batch number: 103631026001A	Sample number(s): 6172055,6172057-6172066									
Antimony	0.0588	U	0.0588	0.196	mg/kg	62		11-208		
Arsenic	0.0668	J	0.0588	0.392	mg/kg	101		80-120		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	100		82-118		
Cadmium	0.0353	U	0.0353	0.0980	mg/kg	102		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	99		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	105		82-118		
Copper	0.0753	J	0.0647	0.392	mg/kg	102		80-120		
Lead	0.0148	J	0.0102	0.196	mg/kg	104		80-120		
Nickel	0.0980	U	0.0980	0.392	mg/kg	109		80-120		
Silver	0.0118	U	0.0118	0.0980	mg/kg	105		66-134		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	104		81-119		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	91		90-110		
Zinc	0.549	U	0.549	2.94	mg/kg	104		78-122		
Batch number: 103631026001B	Sample number(s): 6172055,6172057-6172066									
Selenium	0.0392	U	0.0392	0.392	mg/kg	102		79-122		
Batch number: 103631026001C	Sample number(s): 6172055,6172057-6172066									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	106		78-122		
Batch number: 103631026001D	Sample number(s): 6172055,6172057-6172066									
Barium	0.106	U	0.106	0.392	mg/kg	113		79-121		
Batch number: 103635708003	Sample number(s): 6172055,6172057-6172066									
Aluminum	6.25	J	5.03	20.0	mg/kg	85		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.19	J	6.13	20.0	mg/kg	90		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	75		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	97		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	90		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	94		81-119		
Phosphorus	1.39	J	0.560	10.0	mg/kg	100		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	89		78-110		
Sodium	37.3	U	37.3	100	mg/kg	92		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	95		79-121		
Tin	1.23	J	1.00	10.0	mg/kg	91		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	98		80-120		
Batch number: 103645711001	Sample number(s): 6172055,6172057-6172066									
Mercury	0.0027	U	0.0027	0.0951	mg/kg	97		88-123		
Batch number: 103651848001	Sample number(s): 6172056									
Aluminum	0.0834	U	0.0834	0.200	mg/l	96	95	90-112	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Boron	0.0138 U	0.0138	0.0500	mg/l	96	95	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	98	98	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	99	99	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	102	102	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	97	89-110	0	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	98	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	100	100	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	97	98	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	99	98	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	102	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	99	99	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	101	100	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	101	80-120	0	20
Batch number: 103656050001A	Sample number(s): 6172056								
Antimony	0.00030 U	0.00030	0.0010	mg/l	94	102	87-110	8	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	98	102	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	103	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	102	106	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	95	97	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	101	80-120	2	20
Copper	0.00058 J	0.00038	0.0020	mg/l	100	101	90-113	1	20
Lead	0.00023 J	0.00005 2	0.0010	mg/l	100	99	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	105	90-113	0	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	102	104	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	107	95	89-116	12	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	94	96	80-120	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	101	102	80-120	2	20
Batch number: 103656050001B	Sample number(s): 6172056								
Selenium	0.00025 U	0.00025	0.0020	mg/l	102	102	85-114	0	20
Batch number: 103656050001C	Sample number(s): 6172056								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	101	101	80-120	0	20
Batch number: 103656050001D	Sample number(s): 6172056								
Barium	0.00038 U	0.00038	0.0020	mg/l	103	105	88-113	1	20
Batch number: 110045708001	Sample number(s): 6172055,6172057-6172066								
Titanium	0.380 U	0.380	1.00	mg/kg	100		80-120		
Batch number: 10356196301A	Sample number(s): 6172056								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	99	90-110	1	20
Batch number: 10356196903A	Sample number(s): 6172056								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	97	97	90-110	0	20
Batch number: 10363658701A	Sample number(s): 6172056								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	93	96	85-115	3	20
Batch number: 11010010204A	Sample number(s): 6172055,6172057-6172058								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	103		85-115		
Batch number: 11010010204B	Sample number(s): 6172059-6172061,6172063-6172066								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	103		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11010010206A	Sample number(s): 6172055,6172057-6172058									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	96		90-110		
Batch number: 11010010206B	Sample number(s): 6172059-6172061,6172063-6172066									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	96		90-110		
Batch number: 11012243201A	Sample number(s): 6172055,6172057-6172061,6172063-6172066									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		
Batch number: 10361039401A	Sample number(s): 6172055,6172057									
22a pH by 9045C						100		95-105		
Batch number: 10361039401B	Sample number(s): 6172058-6172060,6172063-6172066									
22a pH by 9045C						100		95-105		
Batch number: 10361182101A	Sample number(s): 6172055,6172057									
32a OR Potential						100		98-102		
Batch number: 10361182101B	Sample number(s): 6172058-6172060,6172063-6172066									
32a OR Potential						100		98-102		
Batch number: 11006162401B	Sample number(s): 6172055,6172057-6172066									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10362SLI026	Sample number(s): 6172055,6172057-6172062,6172064-6172066 UNSPK: 6172060								
Acenaphthene	91	96	75-115	4	30				
Acenaphthylene	96	99	49-126	3	30				
Aniline	70	73	14-114	4	30				
Anthracene	93	95	75-115	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	93	96	65-122	3	30				
Benzo(a)pyrene	79	81	57-126	3	30				
Benzo(b)fluoranthene	80	77	59-125	4	30				
Benzo(g,h,i)perylene	82	87	59-127	6	30				
Benzo(k)fluoranthene	80	86	56-132	8	30				
Benzoic acid	104	105	10-173	1	30				
Benzyl alcohol	95	92	55-123	3	30				
4-Bromophenyl-phenylether	94	95	67-129	1	30				
Butylbenzylphthalate	101	104	73-134	3	30				
Di-n-butylphthalate	93	94	67-123	1	30				
Carbazole	90	95	64-120	5	30				
4-Chloro-3-methylphenol	88	87	53-130	0	30				
4-Chloroaniline	63	66	23-95	4	30				
bis(2-Chloroethoxy)methane	91	92	54-117	0	30				
bis(2-Chloroethyl)ether	92	91	60-116	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	88	91	55-142	3	30				
2-Chloronaphthalene	83	80	50-141	4	30				
2-Chlorophenol	93	94	73-121	1	30				
4-Chlorophenyl-phenylether	91	95	64-119	5	30				
Chrysene	90	94	62-128	4	30				
Dibenz(a,h)anthracene	82	87	65-125	5	30				
Dibenzofuran	93	97	71-112	4	30				
1,2-Dichlorobenzene	87	88	66-108	1	30				
1,3-Dichlorobenzene	86	86	63-109	0	30				
1,4-Dichlorobenzene	85	87	53-113	2	30				
3,3'-Dichlorobenzidine	69	74	25-123	8	30				
2,4-Dichlorophenol	94	95	78-117	1	30				
Diethylphthalate	92	95	66-118	3	30				
2,4-Dimethylphenol	94	94	56-130	0	30				
3,5-Dimethylphenol	101	99	70-130	2	30				
Dimethylphthalate	92	95	64-118	4	30				
4,6-Dinitro-2-methylphenol	71	69	10-148	3	30				
2,4-Dinitrophenol	66	63	20-143	5	30				
2,4-Dinitrotoluene	89	94	57-114	6	30				
2,6-Dinitrotoluene	92	94	69-123	2	30				
1,2-Diphenylhydrazine	98	99	71-129	1	30				
bis(2-Ethylhexyl)phthalate	96	97	63-122	1	30				
Fluoranthene	91	93	59-122	2	30				
Fluorene	91	94	60-125	4	30				
Hexachlorobenzene	93	97	61-111	4	30				
Hexachlorobutadiene	90	93	62-120	3	30				
Hexachlorocyclopentadiene	59	51	10-153	14	30				
Hexachloroethane	81	81	57-109	0	30				
Indeno(1,2,3-cd)pyrene	83	85	61-126	2	30				
Isophorone	91	92	51-118	2	30				
1-Methylnaphthalene	95	95	73-112	0	30				
2-Methylnaphthalene	88	88	76-114	0	30				
2-Methylphenol	96	94	47-142	2	30				
4-Methylphenol	89	89	55-126	0	30				
Naphthalene	90	91	72-116	1	30				
2-Nitroaniline	97	98	67-125	1	30				
3-Nitroaniline	86	92	59-122	6	30				
4-Nitroaniline	82	85	52-112	4	30				
Nitrobenzene	92	93	51-114	1	30				
2-Nitrophenol	94	92	74-115	1	30				
4-Nitrophenol	78	88	39-133	12	30				
N-Nitroso-di-n-propylamine	90	89	60-116	1	30				
N-Nitrosodimethylamine	91	87	47-116	4	30				
N-Nitrosodiphenylamine	98	100	86-145	2	30				
Di-n-octylphthalate	87	88	56-126	2	30				
Pentachlorophenol	93	99	17-149	7	30				
Phenanthrene	93	93	65-125	0	30				
Phenol	92	91	58-126	1	30				
Pyrene	100	103	51-151	4	30				
1,2,4-Trichlorobenzene	92	95	72-115	3	30				
2,4,5-Trichlorophenol	93	96	34-139	3	30				
2,4,6-Trichlorophenol	96	100	49-140	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10362SLL026	Sample number(s): 6172055,6172057-6172062,6172064-6172066 UNSPK: 6172060								
Acenaphthene	84	82	63-105	3	30				
Acenaphthylene	91	83	55-126	8	30				
Anthracene	69	72	46-136	4	30				
Benzo(a)anthracene	45	55	39-144	11	30				
Benzo(a)pyrene	-43*	-32*	34-156	12	30				
Benzo(b)fluoranthene	-380 (2)	-339 (2)	43-155	29	30				
Benzo(g,h,i)perylene	-12*	-12*	33-141	0	30				
Benzo(k)fluoranthene	85	101	42-144	17	30				
Butylbenzylphthalate	116	109	73-140	6	30				
Di-n-butylphthalate	91	92	78-160	1	30				
Chrysene	-107*	-72*	29-156	31*	30				
Dibenz(a,h)anthracene	28*	23*	41-130	10	30				
Diethylphthalate	90	0*	87-131	200*	30				
Dimethylphthalate	99	0*	74-118	200*	30				
Bis(2-Ethylhexyl)phthalate	167	124	39-167	30	30				
Fluoranthene	4*	32	26-166	26	30				
Fluorene	92	86	45-121	6	30				
Indeno(1,2,3-cd)pyrene	-45*	-48*	21-143	5	30				
1-Methylnaphthalene	75	77	72-123	2	30				
2-Methylnaphthalene	68	78	28-121	11	30				
Naphthalene	77	77	61-102	0	30				
N-Nitrosodimethylamine	91	86	48-113	6	30				
Di-n-octylphthalate	138	146	40-192	6	30				
Phenanthrene	33	49	12-165	16	30				
Pyrene	18	29	15-153	13	30				
Batch number: 103650020A	Sample number(s): 6172055,6172057-6172062,6172064-6172066 UNSPK: 6172060								
2,4-D	132	113	28-161	15	35				
Dalapon	97*	81	12-86	18	50				
2,4-DB	101	90	20-170	12	50				
Dicamba	98	89	33-120	9	50				
Dinoseb	17	17	1-44	3	35				
2,4-DP (Dichlorprop)	110	105	55-141	4	50				
MCPA	108	108	31-184	0	50				
MCPP (Mecoprop)	89	81	16-174	10	50				
2,4,5-T	127	106	25-132	18	35				
2,4,5-TP	88	83	10-183	6	35				
Batch number: 110040016A	Sample number(s): 6172065 UNSPK: P167468								
6a Perchlorate EPA 6850	110	110	80-120	0	20				
Batch number: 103610033A	Sample number(s): 6172055,6172057-6172062,6172064-6172066 UNSPK: 6172060								
PCB-1016	72	85	29-146	16	50				
PCB-1260	51	67	39-149	17	50				
Batch number: 103630019A	Sample number(s): 6172055,6172057-6172062,6172064-6172066 UNSPK: 6172060								
Aldrin	36	58	16-126	45	50				
Alpha BHC	22	45	10-129	71*	50				
Beta BHC	150*	181*	14-147	14	50				
Gamma BHC - Lindane	27	42	10-140	46	50				
p,p-DDD	58	40	16-163	36	50				

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Quality Control Summary

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Reported: 02/08/11 at 12:44 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDE	55	75	18-161	31	50				
p,p-DDT	420*	342*	10-176	21	50				
Delta BHC	34	50	23-140	37	50				
Dieldrin	44	55	19-154	22	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	26*	43	28-154	49	50				
Endosulfan Sulfate	23	71	21-160	102*	50				
Endrin	29	44	11-149	42	50				
Endrin Aldehyde	0*	21	10-148	200*	35				
Endrin Ketone	42	61	22-165	35	50				
Heptachlor	28	55	13-126	64*	50				
Heptachlor Epoxide	70	88	13-157	23	50				
Methoxychlor	0*	20*	32-147	200*	50				
Batch number: 103631026001A	Sample number(s): 6172055,6172057-6172066 UNSPK: 6172060 BKG: 6172060								
Antimony	38*	39*	75-125	6	20	0.112 J	0.0722 J	43* (1)	20
Arsenic	131*	170*	75-125	16	20	2.57	3.10	19	20
Beryllium	116	125	75-125	8	20	0.340	0.388	13 (1)	20
Cadmium	131*	127*	75-125	1	20	0.145	0.218	40* (1)	20
Chromium	133*	156*	75-125	12	20	10.2	12.6	21*	20
Cobalt	115	120	75-125	8	20	3.26	3.99	20	20
Copper	126*	131*	75-125	6	20	5.35	7.44	33*	20
Lead	301 (2)	437 (2)	75-125	10	20	34.1	42.5	22*	20
Nickel	129*	143*	75-125	9	20	6.96	8.59	21*	20
Silver	121	122	75-125	4	20	0.141	0.173	20 (1)	20
Thallium	125	129*	75-125	5	20	0.160	0.168	5 (1)	20
Vanadium	137*	178*	75-125	14	20	17.9	21.5	18	20
Zinc	194*	222*	75-125	6	20	36.7	48.2	27*	20
Batch number: 103631026001B	Sample number(s): 6172055,6172057-6172066 UNSPK: 6172060 BKG: 6172060								
Selenium	102	104	75-125	5	20	0.141 J	0.143 J	2 (1)	20
Batch number: 103631026001C	Sample number(s): 6172055,6172057-6172066 UNSPK: 6172060 BKG: 6172060								
Molybdenum	126*	131*	75-125	8	20	0.326	0.464	35* (1)	20
Batch number: 103631026001D	Sample number(s): 6172055,6172057-6172066 UNSPK: 6172060 BKG: 6172060								
Barium	128 (2)	142 (2)	75-125	3	20	49.0	61.1	22*	20
Batch number: 103635708003	Sample number(s): 6172055,6172057-6172066 UNSPK: 6172060 BKG: 6172060								
Aluminum	-1088 (2)	386 (2)	75-125	35*	20	9,120	8,900	2	20
Boron	95	94	84-115	1	20	4.52 J	4.76 J	5 (1)	20
Calcium	-38 (2)	111 (2)	75-125	28*	20	1,990	2,300	15	20
Iron	-3824 (2)	-1093 (2)	75-125	33*	20	10,600	10,400	2	20
Lithium	94	94	82-114	0	20	10.5	10.3	2	20
Magnesium	-276 (2)	18 (2)	75-125	31*	20	2,180	2,190	0	20
Manganese	-36*	43*	75-125	24*	20	165	155	6	20
Phosphorus	435*	80	75-125	80*	20	187	210	12	20
Potassium	92	98	75-125	2	20	1,790	1,900	5	20
Sodium	115	98	75-125	15	20	67.8 J	66.2 J	2 (1)	20
Strontium	92	95	75-115	2	20	14.0	15.6	11	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Tin	91	90	80-110	1	20	1.67	J	1.68	J	1 (1)	20
Zirconium	91	95	75-125	4	20	2.13	J	2.38	J	11 (1)	20
Batch number: 103645711001	Sample number(s): 6172055,6172057-6172066 UNSPK: 6172060 BKG: 6172060										
Mercury	105	101	65-135	4	20	0.0036	J	0.0102	J	95* (1)	20
Batch number: 110045708001	Sample number(s): 6172055,6172057-6172066 UNSPK: 6172060 BKG: 6172060										
Titanium	375 (2)	324 (2)	75-125	4	20	769		754		2	20
Batch number: 11010010204A	Sample number(s): 6172055,6172057-6172058 UNSPK: P172038 BKG: P172038										
7a Perchlorate EPA 314.0	101		80-120			9.0	U	28.9	J	200* (1)	15
Batch number: 11010010204B	Sample number(s): 6172059-6172061,6172063-6172066 UNSPK: 6172060 BKG: 6172060										
7a Perchlorate EPA 314.0	92		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11010010206A	Sample number(s): 6172055,6172057-6172058 UNSPK: P172038 BKG: P172038										
11a Anions by 300.0 - Fluoride	62*		80-120			2.1		1.2		55* (1)	20
Batch number: 11010010206B	Sample number(s): 6172059-6172061,6172063-6172066 UNSPK: 6172060 BKG: 6172060										
11a Anions by 300.0 - Fluoride	54*		80-120			1.7		1.7		5 (1)	20
Batch number: 11012243201A	Sample number(s): 6172055,6172057-6172061,6172063-6172066 UNSPK: 6172060 BKG: 6172060										
3a Cr VI by EPA 7199	89		75-125			0.55	J	0.75	J	32* (1)	20
Batch number: 10361039401A	Sample number(s): 6172055,6172057 BKG: P172038										
22a pH by 9045C						6.64		6.50		2*	1
Batch number: 10361039401B	Sample number(s): 6172058-6172060,6172063-6172066 BKG: 6172060										
22a pH by 9045C						7.16		7.28		2*	1
Batch number: 10361182101A	Sample number(s): 6172055,6172057 BKG: P172038										
32a OR Potential						434		430		1	6
Batch number: 10361182101B	Sample number(s): 6172058-6172060,6172063-6172066 BKG: 6172060										
32a OR Potential						498		480		4	6
Batch number: 11006162401B	Sample number(s): 6172055,6172057-6172066 BKG: 6172060										
28a Moisture Content by 160.3						28.1		29.0		3	20
28a Moisture Content by 160.3						28.1		29.0		3	20
28a Moisture Content by 160.3						28.1		29.0		3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10356WAM026

Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Surrogate Quality Control

6172056	106	82	82
Blank	84	81	86
LCS	94	85	85
LCSD	97	86	91
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10356WAN026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172056	51	33	90	79	83	81
Blank	55	38	92	86	86	83
LCS	65	46	99	91	92	86
LCSD	64	45	99	91	91	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10362SLI026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172055	90	91	89	89	92	90
6172057	89	90	87	91	96	88
6172058	82	84	82	84	89	83
6172059	77	78	82	76	77	80
6172060	86	87	88	84	90	84
6172061	91	91	87	88	92	88
6172062	89	91	95	90	95	90
6172064	90	91	93	89	96	91
6172065	84	85	78	83	83	78
6172066	88	90	90	88	93	90
Blank	91	92	91	90	88	86
LCS	94	95	98	92	90	83
MS	91	91	87	88	92	88
MSD	89	91	95	90	95	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10362SLL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172055	85	75	68
6172057	97	82	66
6172058	91	73	73
6172059	94	81	100
6172060	95	73	73
6172061	87	87	64
6172062	82	71	65
6172064	88	86	80
6172065	156*	71	62
6172066	91	82	81
Blank	89	79	87
LCS	87	79	86
MS	87	87	64

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Surrogate Quality Control

MSD	82	71	65
Limits:	40-130	45-130	45-135

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103560021A

	2,4-Dichlorophenylacetic acid
6172056	103
Blank	116
LCS	126
LCSD	132
Limits:	35-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103610002A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6172056	109	116
Blank	88	91
LCS	78	100
LCSD	83	81
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 103610003A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6172056	110	110
Blank	84	89
LCS	77	89
LCSD	88	94
Limits:	52-141	40-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103610033A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6172055	101	108
6172057	97	107
6172058	60	82
6172059	85	101
6172060	114	119
6172061	65	63
6172062	78	74
6172064	88	86
6172065	73	134*
6172066	89	89
Blank	97	119
LCS	101	123*
LCSD	106	121*
MS	65	63
MSD	78	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226679
Reported: 02/08/11 at 12:44 PM

Surrogate Quality Control

Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103630019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6172055	72	187*
6172057	50	32
6172058	43*	433*
6172059	95	758*
6172060	12*	13*
6172061	27*	34
6172062	41*	24
6172064	21*	12*
6172065	74	0*
6172066	43*	38
Blank	83	102
LCS	69	96
MS	27*	34
MSD	41*	24
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103650020A

	2,4-Dichlorophenylacetic acid
6172055	84
6172057	69
6172058	67
6172059	61
6172060	90
6172061	103
6172062	99
6172064	85
6172065	61
6172066	89
Blank	85
LCS	94
MS	103
MSD	99
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1226679 6172055-66

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SIV-QC-122010	12.20.10	0832	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SEDIMENT DUP
DUP09-SA5B-QC-122010	12.20.10	1011	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SURFACE DUP
DUP14-SA5B-QC-122010	12.20.10	1439	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	SUBSURFACE DUP
DUP14-SA5B-QC-122010	12.20.10	1439	soil	none	5 Encore Samplers	X	X		X																				SUBSURFACE DUP
EB06-SA5B-122010	12.20.10	1235	water	none	6-1 liter ambers			X						X	X			X	X										surface tool rinsate
EB06-SA5B-122010	12.20.10	1235	water	none	1-500 ml poly							X	X			X													surface tool rinsate
EB06-SA5B-122010	12.20.10	1235	water	HNO3	1-500 ml poly						X																		surface tool rinsate
SED-003-SIV-SD-0.0-0.5	12.20.10	0946	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-005-SIV-SD-0.0-0.5MS	12.20.10	0830	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										SEDIMENT MS/MSD
SED-007-SIV-SD-0.0-0.6	12.20.11	1330	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-008-SIV-SD-0.0-0.5	12.20.10	1039	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-034-SIV-SD-0.0-0.5	12.20.10	1530	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-037-SIV-SD-0.0-0.5	12.20.10	1430	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-044-SA5B-SB-4.0-5.0MS	12.20.10	1138	soil	none	12 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	SUBSURFACE MS/MSD
SL-044-SA5B-SB-4.5MS	12.20.10	1130	soil	none	15 Encore Samplers	X	X		X																				SUBSURFACE MS/MSD
SL-044-SA5B-SB-7.0-8.0	12.20.10	1150	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-044-SA5B-SB-7.5	12.20.10	1147	soil	none	5 Encore Samplers	X	X		X																				
SL-045-SA5B-SB-3.0-4.0	12.20.10	1424	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-045-SA5B-SB-3.5	12.20.10	1420	soil	none	5 Encore Samplers	X	X		X																				
SL-212-SA5B-SS-0.0-0.5	12.20.10	0922	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-213-SA5B-SS-0.0-0.5	12.20.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-214-SA5B-SS-0.0-0.5	12.20.10	0943	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-215-SA5B-SS-0.0-0.5MS	12.20.10	1005	soil	none	2 x 16 oz. jar s& 2 6" sleeves			X			X	X	X	X	X	X		X	X										SURFACE MS/MSD
SL-216-SA5B-SS-0.0-0.5	12.20.10	0931	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-217-SA5B-SS-0.0-0.5	12.20.10	0950	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
~~SL-218-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1030~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		V	O	I	D					
~~SL-220-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1028~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		V	O	I	D					
~~SL-221-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1100~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		V	O	I	D					
SL-255-SA5B-SS-0.0-0.5	12.20.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
TB-122010	12.20.10	1230	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.20.10 1630	MJM	12/22/10 1055	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.		No. of coolers = 4
		00732992		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/22/2010
Group Number: 1226683
SDG: DX030
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP09-SA5B-QC-122010 Soil	6172078
EB06-SA5B-122010 Water	6172079
SL-212-SA5B-SS-0.0-0.5 Soil	6172080
SL-213-SA5B-SS-0.0-0.5 Soil	6172081
SL-214-SA5B-SS-0.0-0.5 Soil	6172082
SL-215-SA5B-SS-0.0-0.5 Soil	6172083
SL-215-SA5B-SS-0.0-0.5MS Soil	6172084
SL-215-SA5B-SS-0.0-0.5MSD Soil	6172085
SL-216-SA5B-SS-0.0-0.5 Soil	6172086
SL-217-SA5B-SS-0.0-0.5 Soil	6172087
SL-255-SA5B-SS-0.0-0.5 Soil	6172088

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172078
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP09 SDG#: DX030-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	34.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP09-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172078
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP09 SDG#: DX030-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.138	JB	0.0423	1.52	1
11031	12378-PeCDD	40321-76-4	0.874	JB	0.0809	7.58	1
11031	123478-HxCDD	39227-28-6	1.55	JB	0.0638	7.58	1
11031	123678-HxCDD	57653-85-7	5.07	JB	0.0673	7.58	1
11031	123789-HxCDD	19408-74-3	3.38	JB	0.0630	7.58	1
11031	1234678-HpCDD	35822-46-9	126	B	0.107	7.58	1
11031	OCDD	3268-87-9	1,560	B	0.108	15.2	1
11031	2378-TCDF	51207-31-9	0.709	JB	0.109	1.52	1
11031	12378-PeCDF	57117-41-6	1.72	JB	0.0465	7.58	1
11031	23478-PeCDF	57117-31-4	2.51	JB	0.0408	7.58	1
11031	123478-HxCDF	70648-26-9	1.51	JBQ	0.0517	7.58	1
11031	123678-HxCDF	57117-44-9	1.13	JB	0.0498	7.58	1
11031	123789-HxCDF	72918-21-9	0.913	JB	0.0545	7.58	1
11031	234678-HxCDF	60851-34-5	1.52	JB	0.0527	7.58	1
11031	1234678-HpCDF	67562-39-4	17.2	B	0.0368	7.58	1
11031	1234789-HpCDF	55673-89-7	1.32	JB	0.0486	7.58	1
11031	OCDF	39001-02-0	39.3	B	0.0526	15.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP09-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172078
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP09 SDG#: DX030-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5B-QC-122010

LLI Sample # SW 6172078
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:11

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP09 SDG#: DX030-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 06:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

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Analysis Report

Sample Description: **EB06-SA5B-122010 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5B-122010

LLI Sample # WW 6172079
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:35

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB06 SDG#: DX030-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.202	U	0.202	2.05	1
10915	12378-PeCDD	40321-76-4	0.410	JBQ	0.292	10.3	1
10915	123478-HxCDD	39227-28-6	0.336	JBQ	0.206	10.3	1
10915	123678-HxCDD	57653-85-7	0.306	JBQ	0.220	10.3	1
10915	123789-HxCDD	19408-74-3	0.212	U	0.212	10.3	1
10915	1234678-HpCDD	35822-46-9	2.76	JBQ	0.398	10.3	1
10915	OCDD	3268-87-9	7.80	JBQ	0.487	20.5	1
10915	2378-TCDF	51207-31-9	0.117	U	0.117	2.05	1
10915	12378-PeCDF	57117-41-6	0.189	JBQ	0.106	10.3	1
10915	23478-PeCDF	57117-31-4	0.530	JBQ	0.0985	10.3	1
10915	123478-HxCDF	70648-26-9	0.548	JB	0.184	10.3	1
10915	123678-HxCDF	57117-44-9	0.581	JB	0.169	10.3	1
10915	123789-HxCDF	72918-21-9	0.527	JBQ	0.193	10.3	1
10915	234678-HxCDF	60851-34-5	0.608	JBQ	0.166	10.3	1
10915	1234678-HpCDF	67562-39-4	1.84	JB	0.205	10.3	1
10915	1234789-HpCDF	55673-89-7	0.758	JBQ	0.251	10.3	1
10915	OCDF	39001-02-0	2.04	JBQ	0.308	20.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	36	25 - 164
13C12-12378-PeCDD	32	25 - 181
13C12-123478-HxCDD	33	32 - 141
13C12-123678-HxCDD	31	28 - 130
13C12-123789-HxCDD	32	28 - 130
13C12-1234678-HpCDD	31	23 - 140
13C12-OCDD	32	17 - 157
13C12-2378-TCDF	44	24 - 169
13C12-12378-PeCDF	34	24 - 185
13C12-23478-PeCDF	35	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	35	26 - 123
13C12-234678-HxCDF	37	28 - 136
13C12-123789-HxCDF	36	29 - 147
13C12-1234678-HpCDF	35	28 - 143
13C12-1234789-HpCDF	33	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA5B-122010 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5B-122010

LLI Sample # WW 6172079
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:35

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB06 SDG#: DX030-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018001	01/21/2011 17:31	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11018001	01/18/2011 05:45	Ginelle L Haines	1

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Analysis Report

Sample Description: **SL-212-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172080
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL212 SDG#: DX030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	17.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-212-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172080
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL212 SDG#: DX030-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.516	JB	0.0585	1.21	1
11031	12378-PeCDD	40321-76-4	3.46	JB	0.125	6.04	1
11031	123478-HxCDD	39227-28-6	6.98	B	0.0973	6.04	1
11031	123678-HxCDD	57653-85-7	7.52	B	0.105	6.04	1
11031	123789-HxCDD	19408-74-3	14.4	B	0.0853	6.04	1
11031	1234678-HpCDD	35822-46-9	851	B	0.203	6.04	1
11031	OCDD	3268-87-9	9,340	EB	0.231	12.1	1
11031	2378-TCDF	51207-31-9	1.78	B	0.110	1.21	1
11650	2378-TCDF-Conf	51207-31-9	1.89	B	0.0709	1.21	1
11031	12378-PeCDF	57117-41-6	1.07	JB	0.0357	6.04	1
11031	23478-PeCDF	57117-31-4	3.81	JB	0.0362	6.04	1
11031	123478-HxCDF	70648-26-9	4.68	JB	0.0610	6.04	1
11031	123678-HxCDF	57117-44-9	3.74	JB	0.0580	6.04	1
11031	123789-HxCDF	72918-21-9	1.56	JB	0.101	6.04	1
11031	234678-HxCDF	60851-34-5	5.92	JB	0.0675	6.04	1
11031	1234678-HpCDF	67562-39-4	104	B	0.0800	6.04	1
11031	1234789-HpCDF	55673-89-7	7.43	B	0.0999	6.04	1
11031	OCDF	39001-02-0	295	B	0.0752	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	82	24 - 169
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	42	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-212-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172080
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL212 SDG#: DX030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-212-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-212-SA5B-SS-0.0-0.5

LLI Sample # SW 6172080
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:22

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL212 SDG#: DX030-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 07:09	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11013001	02/06/2011 23:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172081
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL213 SDG#: DX030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172081
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL213 SDG#: DX030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.391 JBQ	0.0938	1.12	1
11031	12378-PeCDD	40321-76-4	3.07 JBQ	0.162	5.62	1
11031	123478-HxCDD	39227-28-6	7.85 B	0.0848	5.62	1
11031	123678-HxCDD	57653-85-7	39.9 B	0.0918	5.62	1
11031	123789-HxCDD	19408-74-3	16.0 B	0.0948	5.62	1
11031	1234678-HpCDD	35822-46-9	1,180 B	0.272	5.62	1
11031	OCDD	3268-87-9	13,200 EB	0.352	11.2	1
11031	2378-TCDF	51207-31-9	1.52 B	0.143	1.12	1
11650	2378-TCDF-Conf	51207-31-9	2.18 BQ	0.0498	1.12	1
11031	12378-PeCDF	57117-41-6	1.87 JB	0.0522	5.62	1
11031	23478-PeCDF	57117-31-4	4.13 JB	0.0506	5.62	1
11031	123478-HxCDF	70648-26-9	5.57 JB	0.0814	5.62	1
11031	123678-HxCDF	57117-44-9	6.02 B	0.0846	5.62	1
11031	123789-HxCDF	72918-21-9	1.64 JB	0.0763	5.62	1
11031	234678-HxCDF	60851-34-5	10.3 B	0.0801	5.62	1
11031	1234678-HpCDF	67562-39-4	130 B	0.0862	5.62	1
11031	1234789-HpCDF	55673-89-7	10.0 B	0.109	5.62	1
11031	OCDF	39001-02-0	354 B	0.114	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	84	24 - 169
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178

*=This limit was used in the evaluation of the final result

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172081
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL213 SDG#: DX030-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-213-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-213-SA5B-SS-0.0-0.5

LLI Sample # SW 6172081
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:15

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL213 SDG#: DX030-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 08:05	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11013001	02/07/2011 00:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-214-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172082
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL214 SDG#: DX030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	22.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-214-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172082
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL214 SDG#: DX030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.671 JBQ	0.0860	1.29	1
11031	12378-PeCDD	40321-76-4	5.05 JB	0.291	6.47	1
11031	123478-HxCDD	39227-28-6	7.98 B	0.143	6.47	1
11031	123678-HxCDD	57653-85-7	41.7 B	0.157	6.47	1
11031	123789-HxCDD	19408-74-3	16.2 BQ	0.169	6.47	1
11031	1234678-HpCDD	35822-46-9	1,200 B	0.308	6.47	1
11031	OCDD	3268-87-9	16,800 EB	0.431	12.9	1
11031	2378-TCDF	51207-31-9	3.04 B	0.264	1.29	1
11650	2378-TCDF-Conf	51207-31-9	3.36 B	0.184	1.29	1
11031	12378-PeCDF	57117-41-6	1.62 JBQ	0.0649	6.47	1
11031	23478-PeCDF	57117-31-4	6.54 B	0.117	6.47	1
11031	123478-HxCDF	70648-26-9	6.81 B	0.106	6.47	1
11031	123678-HxCDF	57117-44-9	4.52 JB	0.110	6.47	1
11031	123789-HxCDF	72918-21-9	2.81 JB	0.161	6.47	1
11031	234678-HxCDF	60851-34-5	2.99 JB	0.107	6.47	1
11031	1234678-HpCDF	67562-39-4	126 B	0.105	6.47	1
11031	1234789-HpCDF	55673-89-7	9.84 B	0.138	6.47	1
11031	OCDF	39001-02-0	375 B	0.183	12.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	27	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	54	28 - 130
13C12-1234678-HpCDD	56	23 - 140
13C12-OCDD	39	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	72	21 - 178

*=This limit was used in the evaluation of the final result

Sample Description: **SL-214-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172082
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL214 SDG#: DX030-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	33	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-214-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-214-SA5B-SS-0.0-0.5

LLI Sample # SW 6172082
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:43

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL214 SDG#: DX030-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 09:02	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11013001	02/07/2011 01:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-215-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172083
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	28.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172083
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.182	JB	0.0866	1.39	1
11031	12378-PeCDD	40321-76-4	0.873	JBQ	0.114	6.95	1
11031	123478-HxCDD	39227-28-6	1.56	JB	0.0930	6.95	1
11031	123678-HxCDD	57653-85-7	4.84	JB	0.0992	6.95	1
11031	123789-HxCDD	19408-74-3	3.16	JB	0.0919	6.95	1
11031	1234678-HpCDD	35822-46-9	119	B	0.144	6.95	1
11031	OCDD	3268-87-9	1,560	B	0.242	13.9	1
11031	2378-TCDF	51207-31-9	0.801	JBQ	0.118	1.39	1
11031	12378-PeCDF	57117-41-6	1.66	JB	0.0561	6.95	1
11031	23478-PeCDF	57117-31-4	2.24	JB	0.0508	6.95	1
11031	123478-HxCDF	70648-26-9	1.54	JB	0.0722	6.95	1
11031	123678-HxCDF	57117-44-9	1.41	JB	0.0700	6.95	1
11031	123789-HxCDF	72918-21-9	0.912	JBQ	0.0816	6.95	1
11031	234678-HxCDF	60851-34-5	1.47	JB	0.0745	6.95	1
11031	1234678-HpCDF	67562-39-4	16.4	B	0.0597	6.95	1
11031	1234789-HpCDF	55673-89-7	1.45	JB	0.0791	6.95	1
11031	OCDF	39001-02-0	39.0	B	0.112	13.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-215-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172083
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-215-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172083
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 09:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-215-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172084
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	28.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172084
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	28.7	B	0.0608	1.39	1
11031	12378-PeCDD	40321-76-4	147	B	0.0981	6.95	1
11031	123478-HxCDD	39227-28-6	145	B	0.0944	6.95	1
11031	123678-HxCDD	57653-85-7	148	B	0.0965	6.95	1
11031	123789-HxCDD	19408-74-3	148	B	0.0992	6.95	1
11031	1234678-HpCDD	35822-46-9	269	B	0.125	6.95	1
11031	OCDD	3268-87-9	1,820	B	0.157	13.9	1
11031	2378-TCDF	51207-31-9	29.4	B	0.112	1.39	1
11031	12378-PeCDF	57117-41-6	146	B	0.0480	6.95	1
11031	23478-PeCDF	57117-31-4	143	B	0.0458	6.95	1
11031	123478-HxCDF	70648-26-9	147	B	0.0730	6.95	1
11031	123678-HxCDF	57117-44-9	144	B	0.0730	6.95	1
11031	123789-HxCDF	72918-21-9	145	B	0.0791	6.95	1
11031	234678-HxCDF	60851-34-5	148	B	0.0726	6.95	1
11031	1234678-HpCDF	67562-39-4	163	B	0.0634	6.95	1
11031	1234789-HpCDF	55673-89-7	152	B	0.0754	6.95	1
11031	OCDF	39001-02-0	338	B	0.0853	13.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-215-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172084
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-215-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172084
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 10:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-215-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172085
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	28.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172085
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	29.2	B	0.0690	1.39	1
11031	12378-PeCDD	40321-76-4	151	B	0.111	6.95	1
11031	123478-HxCDD	39227-28-6	151	B	0.0997	6.95	1
11031	123678-HxCDD	57653-85-7	157	B	0.105	6.95	1
11031	123789-HxCDD	19408-74-3	153	B	0.0974	6.95	1
11031	1234678-HpCDD	35822-46-9	352	B	0.150	6.95	1
11031	OCDD	3268-87-9	2,850	B	0.184	13.9	1
11031	2378-TCDF	51207-31-9	31.3	B	0.146	1.39	1
11031	12378-PeCDF	57117-41-6	149	B	0.0643	6.95	1
11031	23478-PeCDF	57117-31-4	146	B	0.0577	6.95	1
11031	123478-HxCDF	70648-26-9	152	B	0.0939	6.95	1
11031	123678-HxCDF	57117-44-9	152	B	0.0894	6.95	1
11031	123789-HxCDF	72918-21-9	148	B	0.0964	6.95	1
11031	234678-HxCDF	60851-34-5	152	B	0.0932	6.95	1
11031	1234678-HpCDF	67562-39-4	177	B	0.0783	6.95	1
11031	1234789-HpCDF	55673-89-7	155	B	0.0961	6.95	1
11031	OCDF	39001-02-0	369	B	0.0974	13.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-215-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172085
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-215-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-215-SA5B-SS-0.0-0.5

LLI Sample # SW 6172085
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:05

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL215 SDG#: DX030-06MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 11:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-216-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172086
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL216 SDG#: DX030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	19.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-216-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172086
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL216 SDG#: DX030-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0450	JBQ	0.0395	1.24	1
11031	12378-PeCDD	40321-76-4	0.425	JBQ	0.0708	6.19	1
11031	123478-HxCDD	39227-28-6	0.532	JB	0.0593	6.19	1
11031	123678-HxCDD	57653-85-7	1.75	JB	0.0620	6.19	1
11031	123789-HxCDD	19408-74-3	1.56	JB	0.0600	6.19	1
11031	1234678-HpCDD	35822-46-9	34.0	B	0.0782	6.19	1
11031	OCDD	3268-87-9	473	B	0.102	12.4	1
11031	2378-TCDF	51207-31-9	0.498	JB	0.0704	1.24	1
11031	12378-PeCDF	57117-41-6	0.829	JB	0.0282	6.19	1
11031	23478-PeCDF	57117-31-4	0.828	JB	0.0293	6.19	1
11031	123478-HxCDF	70648-26-9	0.422	JB	0.0455	6.19	1
11031	123678-HxCDF	57117-44-9	0.549	JB	0.0405	6.19	1
11031	123789-HxCDF	72918-21-9	0.636	JB	0.0583	6.19	1
11031	234678-HxCDF	60851-34-5	0.624	JBQ	0.0442	6.19	1
11031	1234678-HpCDF	67562-39-4	4.60	JB	0.0338	6.19	1
11031	1234789-HpCDF	55673-89-7	0.474	JBQ	0.0637	6.19	1
11031	OCDF	39001-02-0	12.1	JB	0.0802	12.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-216-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172086
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL216 SDG#: DX030-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-216-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-216-SA5B-SS-0.0-0.5

LLI Sample # SW 6172086
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:31

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL216 SDG#: DX030-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 12:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-217-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172087
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL217 SDG#: DX030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	28.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-217-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172087
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL217 SDG#: DX030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.572 JB	0.0973	1.40	1
11031	12378-PeCDD	40321-76-4	5.37 JB	0.454	6.99	1
11031	123478-HxCDD	39227-28-6	9.95 B	0.186	6.99	1
11031	123678-HxCDD	57653-85-7	48.8 B	0.194	6.99	1
11031	123789-HxCDD	19408-74-3	21.0 B	0.165	6.99	1
11031	1234678-HpCDD	35822-46-9	1,250 B	0.397	6.99	1
11031	OCDD	3268-87-9	13,100 EB	0.391	14.0	1
11031	2378-TCDF	51207-31-9	1.83 B	0.185	1.40	1
11650	2378-TCDF-Conf	51207-31-9	2.87 B	0.210	1.40	1
11031	12378-PeCDF	57117-41-6	2.24 JB	0.0708	6.99	1
11031	23478-PeCDF	57117-31-4	4.38 JB	0.140	6.99	1
11031	123478-HxCDF	70648-26-9	6.36 JB	0.126	6.99	1
11031	123678-HxCDF	57117-44-9	5.04 JB	0.140	6.99	1
11031	123789-HxCDF	72918-21-9	2.58 JBQ	0.166	6.99	1
11031	234678-HxCDF	60851-34-5	4.34 JBQ	0.141	6.99	1
11031	1234678-HpCDF	67562-39-4	164 B	0.237	6.99	1
11031	1234789-HpCDF	55673-89-7	13.5 B	0.263	6.99	1
11031	OCDF	39001-02-0	496 B	0.132	14.0	1

The recovery for 13C12-2378-TCDF was outside QC limits.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	21	24 - 169
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	82	24 - 185

*=This limit was used in the evaluation of the final result

Sample Description: **SL-217-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172087
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL217 SDG#: DX030-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-23478-PeCDF		79	21 - 178			
13C12-123478-HxCDF		91	26 - 152			
13C12-123678-HxCDF		84	26 - 123			
13C12-234678-HxCDF		83	28 - 136			
13C12-123789-HxCDF		46	29 - 147			
13C12-1234678-HpCDF		76	28 - 143			
13C12-1234789-HpCDF		75	26 - 138			
13C12-OCDF		64	17 - 157			
13C12-1278-TCDD (CRS)		86	35 - 197			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-217-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-217-SA5B-SS-0.0-0.5

LLI Sample # SW 6172087
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
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Chantilly VA 20151

DL217 SDG#: DX030-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 16:47	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11013001	02/07/2011 02:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-255-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172088
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL255 SDG#: DX030-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	18.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-255-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172088
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL255 SDG#: DX030-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.117	JBQ	0.0502	1.23	1
11031	12378-PeCDD	40321-76-4	0.467	JB	0.0592	6.15	1
11031	123478-HxCDD	39227-28-6	0.337	JB	0.0518	6.15	1
11031	123678-HxCDD	57653-85-7	1.50	JB	0.0551	6.15	1
11031	123789-HxCDD	19408-74-3	1.38	JB	0.0508	6.15	1
11031	1234678-HpCDD	35822-46-9	22.4	B	0.0592	6.15	1
11031	OCDD	3268-87-9	308	B	0.0679	12.3	1
11031	2378-TCDF	51207-31-9	0.307	JB	0.0625	1.23	1
11031	12378-PeCDF	57117-41-6	0.546	JB	0.0261	6.15	1
11031	23478-PeCDF	57117-31-4	0.664	JB	0.0269	6.15	1
11031	123478-HxCDF	70648-26-9	0.346	JB	0.0403	6.15	1
11031	123678-HxCDF	57117-44-9	0.426	JB	0.0343	6.15	1
11031	123789-HxCDF	72918-21-9	0.609	JBQ	0.0415	6.15	1
11031	234678-HxCDF	60851-34-5	0.470	JB	0.0389	6.15	1
11031	1234678-HpCDF	67562-39-4	3.53	JB	0.0321	6.15	1
11031	1234789-HpCDF	55673-89-7	0.414	JBQ	0.0550	6.15	1
11031	OCDF	39001-02-0	7.96	JB	0.0523	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-255-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172088
LLI Group # 1226683
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 10:10

Submitted: 12/22/2010 10:55
Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL255 SDG#: DX030-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-255-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-255-SA5B-SS-0.0-0.5

LLI Sample # SW 6172088
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Reported: 02/22/2011 09:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL255 SDG#: DX030-09*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013001	01/28/2011 17:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013001	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11006162401B	01/06/2011 18:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226683
Reported: 02/22/11 at 09:39 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11006162401B	Sample number(s): 6172078,6172080-6172088									
28a Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11013001	Sample number(s): 6172078,6172080-6172088									
2378-TCDD	0.0306	J	0.0182	1.00	ng/kg	101		67-158		
12378-PeCDD	0.130	J	0.0230	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0646	J	0.0165	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0619	J	0.0170	5.00	ng/kg	106		76-134		
123789-HxCDD	0.112	J	0.0175	5.00	ng/kg	103		64-162		
1234678-HpCDD	0.165	J	0.0222	5.00	ng/kg	105		70-140		
OCDD	0.438	J	0.0261	10.0	ng/kg	103		78-144		
2378-TCDF	0.0343	J	0.0152	1.00	ng/kg	112		75-158		
2378-TCDF-Conf	0.0885	J	0.0105	1.00	ng/kg					
12378-PeCDF	0.0987	J	0.00780	5.00	ng/kg	106		80-134		
23478-PeCDF	0.145	J	0.00810	5.00	ng/kg	104		68-160		
123478-HxCDF	0.104	J	0.0167	5.00	ng/kg	103		72-134		
123678-HxCDF	0.111	J	0.0150	5.00	ng/kg	106		84-130		
123789-HxCDF	0.190	J	0.0188	5.00	ng/kg	102		78-130		
234678-HxCDF	0.135	J	0.0163	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.266	J	0.0124	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.170	J	0.0197	5.00	ng/kg	107		78-138		
OCDF	0.411	J	0.0256	10.0	ng/kg	104		63-170		
Batch number: 11018001	Sample number(s): 6172079									
2378-TCDD	0.196	J	0.0833	2.00	pg/l	85		67-158		
12378-PeCDD	0.436	J	0.126	10.0	pg/l	89		70-142		
123478-HxCDD	0.582	J	0.115	10.0	pg/l	93		70-164		
123678-HxCDD	0.636	J	0.118	10.0	pg/l	91		76-134		
123789-HxCDD	0.695	J	0.115	10.0	pg/l	93		64-162		
1234678-HpCDD	2.11	J	0.199	10.0	pg/l	97		70-140		
OCDD	7.03	J	0.430	20.0	pg/l	108		78-144		
2378-TCDF	0.133	J	0.0727	2.00	pg/l	86		75-158		
12378-PeCDF	0.316	J	0.0483	10.0	pg/l	90		80-134		
23478-PeCDF	0.610	J	0.0452	10.0	pg/l	88		68-160		
123478-HxCDF	0.509	J	0.0809	10.0	pg/l	91		72-134		
123678-HxCDF	0.532	J	0.0749	10.0	pg/l	89		84-130		
123789-HxCDF	0.680	J	0.0917	10.0	pg/l	88		78-130		
234678-HxCDF	0.551	J	0.0781	10.0	pg/l	89		70-156		
1234678-HpCDF	1.21	J	0.0929	10.0	pg/l	96		82-122		
1234789-HpCDF	0.676	J	0.129	10.0	pg/l	95		78-138		
OCDF	3.35	J	0.351	20.0	pg/l	106		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226683
Reported: 02/22/11 at 09:39 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11006162401B	Sample number(s): 6172078,6172080-6172088 BKG: P172060								
28a Moisture Content by 160.3						28.1	29.0	3	20
Batch number: 11013001	Sample number(s): 6172078,6172080-6172088 UNSPK: 6172083								
2378-TCDD	102	104	67-158	2	25				
12378-PeCDD	105	108	70-142	3	25				
123478-HxCDD	103	107	70-164	4	25				
123678-HxCDD	103	109	76-134	6	25				
123789-HxCDD	104	108	64-162	3	25				
1234678-HpCDD	108	167*	70-140	27*	25				
OCDD	95 (2)	463 (2)	78-144	44*	25				
2378-TCDF	103	109	75-158	6	25				
12378-PeCDF	104	106	80-134	1	25				
23478-PeCDF	101	103	68-160	2	25				
123478-HxCDF	105	108	72-134	3	25				
123678-HxCDF	102	108	84-130	5	25				
123789-HxCDF	104	106	78-130	2	25				
234678-HxCDF	106	108	70-156	2	25				
1234678-HpCDF	106	115	82-122	8	25				
1234789-HpCDF	108	110	78-138	2	25				
OCDF	108	119	63-170	9	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11013001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6172078	76	82	81	82	79	79
6172080	79	79	83	82	81	42
6172081	80	78	87	83	83	84
6172082	72	72	76	79	74	33
6172083	66	70	74	73	71	67
6172084	71	76	75	76	74	71
6172085	65	67	71	70	69	69
6172086	84	85	86	96	85	73
6172087	75	79	91	84	83	46
6172088	71	67	65	73	66	64
Blank	72	76	77	88	77	76
MS	71	76	75	76	74	71
MSD	65	67	71	70	69	69
OPR	69	71	73	84	75	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226683
Reported: 02/22/11 at 09:39 AM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6172078	84	75	76	92	78	84
6172080	71	68	55	91	77	81
6172081	76	73	66	92	78	84
6172082	63	53	43	84	71	77
6172083	70	60	52	81	69	73
6172084	74	72	68	86	74	76
6172085	68	66	62	77	66	71
6172086	108	66	56	105	88	91
6172087	76	75	64	86	76	83
6172088	83	59	54	78	71	73
Blank	99	73	74	93	77	86
MS	74	72	68	86	74	76
MSD	68	66	62	77	66	71
OPR	97	66	69	88	76	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6172078	81	80	84	93	79	80
6172080	78	81	69	51	81	79
6172081	81	81	73	66	85	79
6172082	66	54	56	39	75	68
6172083	69	70	64	55	71	70
6172084	76	74	72	68	76	76
6172085	69	70	65	61	68	67
6172086	92	90	86	79	87	92
6172087	83	77	74	62	80	82
6172088	70	70	68	68	67	76
Blank	85	82	85	87	71	82
MS	76	74	72	68	76	76
MSD	69	70	65	61	68	67
OPR	82	80	82	85	66	80
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6172078	
6172080	82
6172081	84
6172082	27
6172083	
6172084	
6172085	
6172086	
6172087	21*
6172088	
Blank	67
MS	
MSD	
OPR	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226683
Reported: 02/22/11 at 09:39 AM

Surrogate Quality Control

Limits: 24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11018001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6172079	36	35	34	35	37	36
Blank	89	94	89	90	90	86
OPR	69	76	76	75	75	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6172079	35	33	31	80	32	33
Blank	71	62	37	96	88	89
OPR	59	50	28	82	73	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6172079	31	32	31	32	44	34
Blank	86	86	66	41	95	93
OPR	72	71	53	30	75	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1226683 6172078-88

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SIV-QC-122010	12.20.10	0832	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SEDIMENT DUP
DUP09-SA5B-QC-122010	12.20.10	1011	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SURFACE DUP
DUP14-SA5B-QC-122010	12.20.10	1439	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	SUBSURFACE DUP
DUP14-SA5B-QC-122010	12.20.10	1439	soil	none	5 Encore Samplers	X	X		X																				SUBSURFACE DUP
EB06-SA5B-122010	12.20.10	1235	water	none	6-1 liter ambers			X						X	X			X	X										surface tool rinsate
EB06-SA5B-122010	12.20.10	1235	water	none	1-500 ml poly							X	X			X													surface tool rinsate
EB06-SA5B-122010	12.20.10	1235	water	HNO3	1-500 ml poly						X																		surface tool rinsate
SED-003-SIV-SD-0.0-0.5	12.20.10	0946	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-005-SIV-SD-0.0-0.5MS	12.20.10	0830	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										SEDIMENT MS/MSD
SED-007-SIV-SD-0.0-0.6	12.20.11	1330	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-008-SIV-SD-0.0-0.5	12.20.10	1039	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-034-SIV-SD-0.0-0.5	12.20.10	1530	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-037-SIV-SD-0.0-0.5	12.20.10	1430	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-044-SA5B-SB-4.0-5.0MS	12.20.10	1138	soil	none	12 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	SUBSURFACE MS/MSD
SL-044-SA5B-SB-4.5MS	12.20.10	1130	soil	none	15 Encore Samplers	X	X		X																				SUBSURFACE MS/MSD
SL-044-SA5B-SB-7.0-8.0	12.20.10	1150	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-044-SA5B-SB-7.5	12.20.10	1147	soil	none	5 Encore Samplers	X	X		X																				
SL-045-SA5B-SB-3.0-4.0	12.20.10	1424	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-045-SA5B-SB-3.5	12.20.10	1420	soil	none	5 Encore Samplers	X	X		X																				
SL-212-SA5B-SS-0.0-0.5	12.20.10	0922	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-213-SA5B-SS-0.0-0.5	12.20.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-214-SA5B-SS-0.0-0.5	12.20.10	0943	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-215-SA5B-SS-0.0-0.5MS	12.20.10	1005	soil	none	2 x 16 oz. jar s& 2 6" sleeves			X			X	X	X	X	X	X		X	X										SURFACE MS/MSD
SL-216-SA5B-SS-0.0-0.5	12.20.10	0931	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-217-SA5B-SS-0.0-0.5	12.20.10	0950	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
~~SL-218-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1030~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		V	O	I	D					
~~SL-220-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1028~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		V	O	I	D					
~~SL-221-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1100~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		V	O	I	D					
SL-255-SA5B-SS-0.0-0.5	12.20.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
TB-122010	12.20.10	1230	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time		Laboratory:
	12.20.10 1630		12/22/10	1055	Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Airbill No.			
		00732992			No. of coolers = 4

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/22/2010
Group Number: 1226684
SDG: DE048
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP14-SA5B-QC-122010 Soil	6172089
SL-044-SA5B-SB-4.0-5.0 Soil	6172090
SL-044-SA5B-SB-4.0-5.0MS Soil	6172091
SL-044-SA5B-SB-4.0-5.0MSD Soil	6172092
SL-044-SA5B-SB-4.0-5.0DUP Soil	6172093
SL-044-SA5B-SB-7.0-8.0 Soil	6172094
SL-045-SA5B-SB-3.0-4.0 Soil	6172095
TB-122010 Water	6172096

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: DUP14-SA5B-QC-122010 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE048-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	J	5.7	6.8		0.76
06192	Benzene	71-43-2	0.09	U	0.09	3.4		0.76
06192	Bromobenzene	108-86-1	0.11	U	0.11	3.4		0.76
06192	Bromochloromethane	74-97-5	0.28	U	0.28	3.4		0.76
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.4		0.76
06192	Bromoform	75-25-2	0.34	U	0.34	3.4		0.76
06192	Bromomethane	74-83-9	0.21	U	0.21	3.4		0.76
06192	2-Butanone	78-93-3	1.0	U	1.0	6.8		0.76
06192	n-Butylbenzene	104-51-8	0.10	U	0.10	3.4		0.76
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.4		0.76
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.4		0.76
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.4		0.76
06192	Chlorobenzene	108-90-7	0.09	U	0.09	3.4		0.76
06192	Chloroethane	75-00-3	0.11	U	0.11	3.4		0.76
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.25	U	0.25	3.4		0.76
06192	Chloroform	67-66-3	0.10	U	0.10	3.4		0.76
06192	Chloromethane	74-87-3	0.28	U	0.28	3.4		0.76
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.4		0.76
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.4		0.76
06192	Chlorotrifluoroethene	79-38-9	0.42	U	0.42	4.2		0.76
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.59	U	0.59	3.4		0.76
06192	Dibromochloromethane	124-48-1	0.17	U	0.17	3.4		0.76
06192	1,2-Dibromoethane	106-93-4	0.14	U	0.14	3.4		0.76
06192	Dibromomethane	74-95-3	0.20	U	0.20	3.4		0.76
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.4		0.76
06192	1,3-Dichlorobenzene	541-73-1	0.10	U	0.10	3.4		0.76
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.4		0.76
06192	Dichlorodifluoromethane	75-71-8	0.10	U	0.10	3.4		0.76
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.4		0.76
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.4		0.76
06192	1,1-Dichloroethene	75-35-4	0.33	U	0.33	3.4		0.76
06192	cis-1,2-Dichloroethene	156-59-2	0.16	U	0.16	3.4		0.76
06192	trans-1,2-Dichloroethene	156-60-5	0.10	U	0.10	3.4		0.76
06192	1,2-Dichloropropane	78-87-5	0.14	U	0.14	3.4		0.76
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.4		0.76
06192	2,2-Dichloropropane	594-20-7	0.14	U	0.14	3.4		0.76
06192	1,1-Dichloropropene	563-58-6	0.11	U	0.11	3.4		0.76
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.4		0.76
06192	trans-1,3-Dichloropropene	10061-02-6	0.14	U	0.14	3.4		0.76
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.4		0.76
06192	Freon 113	76-13-1	0.09	U	0.09	3.4		0.76
06192	Freon 133a	75-88-7	0.42	U	0.42	4.2		0.76
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.4		0.76
06192	2-Hexanone	591-78-6	1.4	U	1.4	6.8		0.76
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.4		0.76
06192	p-Isopropyltoluene	99-87-6	0.09	U	0.09	3.4		0.76
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.18	U	0.18	3.4		0.76
06192	4-Methyl-2-pentanone	108-10-1	0.33	U	0.33	6.8		0.76
06192	Methylene Chloride	75-09-2	0.39	J	0.20	3.4		0.76
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.4		0.76

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP14-SA5B-QC-122010 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE048-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.4		0.76
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.09	U	0.09	3.4		0.76
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.19	U	0.19	3.4		0.76
06192	Tetrachloroethene	127-18-4	0.17	U	0.17	3.4		0.76
06192	Toluene	108-88-3	0.1	J	0.07	3.4		0.76
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.4		0.76
06192	1,2,4-Trichlorobenzene	120-82-1	0.15	U	0.15	3.4		0.76
06192	1,1,1-Trichloroethane	71-55-6	0.17	U	0.17	3.4		0.76
06192	1,1,2-Trichloroethane	79-00-5	0.23	U	0.23	3.4		0.76
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.4		0.76
06192	Trichlorofluoromethane	75-69-4	0.25	U	0.25	3.4		0.76
06192	1,2,3-Trichloropropane	96-18-4	0.28	U	0.28	3.4		0.76
06192	1,2,4-Trimethylbenzene	95-63-6	0.34	U	0.34	3.4		0.76
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.4		0.76
06192	Vinyl Chloride	75-01-4	0.17	U	0.17	3.4		0.76
06192	m+p-Xylene	179601-23-1	0.14	U	0.14	3.4		0.76
06192	o-Xylene	95-47-6	0.14	U	0.14	3.4		0.76
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.11
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	93.2	U	93.2	186		5

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE048-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

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14420 Albemarle Point Place
Suite 210
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DUP14 SDG#: DE048-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U	84	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U	56	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56	U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1

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Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE048-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	70	U	70	170	10000000	1
10132	Tetryl	479-45-8	86	U	86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U	56	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The result for formaldehyde in the reextraction is 2200 ug/kg.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	4.1		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.77	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The LCS recovery for aroclor 1260 is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	3.3		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	9.1		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1

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Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP14 SDG#: DE048-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	110	U	110	560		1
	Methanol was detected in the method blank at a concentration of 230 ug/kg. Due to a laboratory error the final volume was increased by a factor of two. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The methanol result for the original extraction is 220 ug/kg; the ethanol and isopropanol results for the original extraction are <200 ug/kg.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.52	21.9		1
07914	Boron	7440-42-8	6.32		0.976	5.48		1
01650	Calcium	7440-70-2	2,450		6.72	21.9		1
01654	Iron	7439-89-6	19,200		5.17	21.9		1
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,110		2.79	11.0		1
06958	Manganese	7439-96-5	247		0.0855	0.548		1
10145	Phosphorus	7723-14-0	293		0.614	11.0		1
01662	Potassium	7440-09-7	2,480		19.7	54.8		1
01667	Sodium	7440-23-5	102	J	40.9	110		1
07968	Strontium	7440-24-6	17.3		0.0680	0.548		1
06969	Tin	7440-31-5	2.50	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,110		0.417	1.10		1
10146	Zirconium	7440-67-7	1.50	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.262		0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.45		0.0652	0.434		2
06126	Barium	7440-39-3	128		0.117	0.434		2
06127	Beryllium	7440-41-7	0.713		0.0174	0.109		2

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Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
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DUP14 SDG#: DE048-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.208	0.0391	0.109		2
06131	Chromium	7440-47-3	26.3	0.130	0.434		2
06132	Cobalt	7440-48-4	8.10	0.0217	0.109		2
06133	Copper	7440-50-8	10.1	0.0717	0.434		2
06135	Lead	7439-92-1	9.16	0.0113	0.217		2
06138	Molybdenum	7439-98-7	1.11	0.0543	0.109		2
06139	Nickel	7440-02-0	14.9	0.109	0.434		2
06141	Selenium	7782-49-2	0.153 J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0516 J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.409	0.0326	0.109		2
06148	Vanadium	7440-62-2	52.4	0.0239	0.109		2
06149	Zinc	7440-66-6	84.4	0.608	3.26		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.4	0.89	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	506	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.88	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: DUP14-SA5B-QC-122010 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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DUP14 SDG#: DE048-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562AA	12/23/2010 02:34	Laura M Krieger	0.76
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010 11:48	Jason M Long	21.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:09	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623393	12/22/2010 13:08	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 15:20	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLH026	01/19/2011 22:46	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLM026	01/11/2011 21:43	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLM026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLH026	12/29/2010 06:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 13:19	Marie D John	23.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:09	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/05/2011 00:58	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 17:32	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103630013A	01/11/2011 23:04	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103630013A	12/29/2010 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 19:46	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 15:14	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 20:48	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 09:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1

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Sample Description: DUP14-SA5B-QC-122010 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

DUP14 SDG#: DE048-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 15:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 15:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 15:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 03:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 12:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 12:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 12:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 12:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 00:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201A	01/14/2011 00:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 19:33	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243202A	01/17/2011 23:30	Joseph E McKenzie	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201B	12/30/2010 18:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1

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Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172089
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

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14420 Albemarle Point Place
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DUP14 SDG#: DE048-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201B	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182101B	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401B	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243202A	01/12/2011 22:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

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Sample Description: SL-044-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	31		7.0	8.3		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.2		0.92
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	3.0	J	1.3	8.3		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.92
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.92
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.92
06192	Methylene Chloride	75-09-2	0.54	J	0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.92

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Sample Description: SL-044-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
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04445 SDG#: DE048-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.87
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85	U	85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	71	U	71	170	10000000	1
10132	Tetryl	479-45-8	87	U	87	170	10000000	1

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Sample Description: SL-044-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

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14420 Albemarle Point Place
Suite 210
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04445 SDG#: DE048-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	9,800		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	1.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	4.0		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	310	J	110	570		1
	Methanol was detected in the method blank at a concentration of 230 ug/kg. Due to a laboratory error the final volume was increased by a factor of two. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The methanol result for the original extraction is 390 ug/kg; the ethanol and isopropanol results for the original extraction are <200 ug/kg.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		5.58	22.2		1
07914	Boron	7440-42-8	0.987	U	0.987	5.55		1
01650	Calcium	7440-70-2	1,930		6.80	22.2		1
01654	Iron	7439-89-6	19,100		5.22	22.2		1
01656	Lithium	7439-93-2	20.1		0.24	2.2		1
01657	Magnesium	7439-95-4	3,740		2.82	11.1		1
06958	Manganese	7439-96-5	267		0.0865	0.555		1
10145	Phosphorus	7723-14-0	128		0.621	11.1		1
01662	Potassium	7440-09-7	1,490		20.0	55.5		1
01667	Sodium	7440-23-5	109	J	41.4	111		1
07968	Strontium	7440-24-6	20.8		0.0688	0.555		1
06969	Tin	7440-31-5	2.45	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,160		0.421	1.11		1
10146	Zirconium	7440-67-7	2.04	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.173	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.26		0.0665	0.444		2
06126	Barium	7440-39-3	128		0.120	0.444		2
06127	Beryllium	7440-41-7	0.851		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0646	J	0.0399	0.111		2
06131	Chromium	7440-47-3	20.1		0.133	0.444		2
06132	Cobalt	7440-48-4	6.82		0.0222	0.111		2
06133	Copper	7440-50-8	6.61		0.0732	0.444		2
06135	Lead	7439-92-1	6.38		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.735		0.0555	0.111		2
06139	Nickel	7440-02-0	12.3		0.111	0.444		2
06141	Selenium	7782-49-2	0.0786	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0622	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.300		0.0333	0.111		2
06148	Vanadium	7440-62-2	42.0		0.0244	0.111		2
06149	Zinc	7440-66-6	52.1		0.621	3.33		2

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Sample Description: SL-044-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	464		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.54		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-044-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562AA	12/22/2010 20:11	Laura M Krieger	0.92

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Sample Description: SL-044-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010 12:08	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 12:53	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:16	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623393	12/22/2010 12:55	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 12:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLH026	01/19/2011 21:00	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLM026	01/11/2011 20:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLM026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLH026	12/29/2010 06:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 13:55	Marie D John	19.87
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 12:56	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/05/2011 01:41	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 17:42	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103630013A	01/11/2011 23:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103630013A	12/29/2010 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 16:02	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 15:29	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 21:04	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 02:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/04/2011 12:47	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/04/2011 12:47	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1

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Sample Description: **SL-044-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/04/2011 12:47	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/04/2011 12:47	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 02:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 00:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201A	01/14/2011 00:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 18:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243202A	01/17/2011 23:46	Joseph E McKenzie	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201B	12/30/2010 18:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201B	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182101C	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401C	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243202A	01/12/2011 22:55	Daniel S Smith	1

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Sample Description: **SL-044-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172090
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	290	6.3	7.5		0.83
06192	Benzene	71-43-2	20	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	18	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	19	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	18	0.07	3.7		0.83
06192	Bromoform	75-25-2	17	0.37	3.7		0.83
06192	Bromomethane	74-83-9	15	0.23	3.7		0.83
06192	2-Butanone	78-93-3	190	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	19	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	19	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	18	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	19	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	19	0.10	3.7		0.83
06192	Chloroethane	75-00-3	15	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.28	3.7		0.83
06192	Chloroform	67-66-3	19	0.11	3.7		0.83
06192	Chloromethane	74-87-3	19	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	18	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	18	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	9.0	0.43	4.3		0.76
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	18	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	18	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	19	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	18	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	18	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	18	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	13	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	20	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	19	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	19	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	20	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	20	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	19	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	19	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	19	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	20	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	19	0.06	3.7		0.83
06192	Freon 113	76-13-1	20	0.10	3.7		0.83
06192	Freon 133a	75-88-7	14	0.43	4.3		0.76
06192	Hexachlorobutadiene	87-68-3	18	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	86	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	19	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	19	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	72	0.36	7.5		0.83
06192	Methylene Chloride	75-09-2	18	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	19	0.07	3.7		0.83

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Sample Description: SL-044-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	19		0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	18		0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	19		0.19	3.7		0.83
06192	Toluene	108-88-3	19		0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	17		0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	17		0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	19		0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	18		0.25	3.7		0.83
06192	Trichloroethene	79-01-6	19		0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	20		0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	18		0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	18		0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	19		0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	19		0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	38		0.16	3.7		0.83
06192	o-Xylene	95-47-6	18		0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	96		4.5	13		19.78
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	650		18.9	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,100		190	570		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	3,200	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		19	190		1
04688	Benzoic acid	65-85-0	940		190	570		1
04688	Benzyl alcohol	100-51-6	1,700		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,900		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190		1
04688	4-Chloroaniline	106-47-8	980		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,700	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	19	190		1
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900	38	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,800	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	2,000	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	380		1
04688	Fluoranthene	206-44-0	1,900	19	190		1
04688	Fluorene	86-73-7	1,800	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,800	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,300	190	570		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,600	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,800	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	75	190		1
04688	Nitrobenzene	98-95-3	1,900	19	190		1
04688	2-Nitrophenol	88-75-5	1,800	19	190		1
04688	4-Nitrophenol	100-02-7	2,000	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,400	190	570		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,700		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.75	1.9		1
10138	Acenaphthylene	208-96-8	35		0.38	1.9		1
10138	Anthracene	120-12-7	35		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	35		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	38		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	38		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	43		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	42		6.8	20		1
10138	Chrysene	218-01-9	36		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	37		0.75	1.9		1
10138	Diethylphthalate	84-66-2	41		6.8	20		1
10138	Dimethylphthalate	131-11-3	41		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49		6.8	20		1
10138	Fluoranthene	206-44-0	36		0.75	1.9		1
10138	Fluorene	86-73-7	39		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	34		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	31		0.75	1.9		1
10138	Naphthalene	91-20-3	33		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	39		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	37		6.8	20		1
10138	Phenanthrene	85-01-8	36		0.75	1.9		1
10138	Pyrene	129-00-0	36		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.2		0.2	0.9		19.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,700		85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1

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Sample Description: SL-044-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,700		57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,600		57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,800		57	170	10000000	1
10132	HMX	2691-41-0	2,300		140	420	10000000	1
10132	Nitrobenzene	98-95-3	2,800		57	170	10000000	1
10132	Nitroglycerin	55-63-0	56,000		1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	2,800		110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	2,900		140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	2,800		110	170	10000000	1
10132	PETN	78-11-5	62,000		1,100	3,400	10000000	1
10132	RDX	121-82-4	2,400		71	170	10000000	1
10132	Tetryl	479-45-8	2,800		87	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,000		57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,700		57	170	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	13,000		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	20		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	22		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

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CDM Federal Programs Corp.
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04445 SDG#: DE048-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.70	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.4		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	3.1		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	4.4		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.51	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,500		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,500		110	570		1

Methanol was detected in the method blank at a concentration of 230 ug/kg. Due to a laboratory error the final volume was increased by a factor of two. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	160		5.7	14		1
08283	Ethylene glycol	107-21-1	180		5.7	14		1
08283	Propylene glycol	57-55-6	170		5.7	14		1

Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	2.0	J	1.7	4.0		1
10318	o-Terphenyl	84-15-1	2.1	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	2.0	J	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,400		5.58	22.2		1
07914	Boron	7440-42-8	220		0.987	5.55		1
01650	Calcium	7440-70-2	2,510		6.80	22.2		1
01654	Iron	7439-89-6	17,900		5.22	22.2		1
01656	Lithium	7439-93-2	127		0.24	2.2		1
01657	Magnesium	7439-95-4	3,800		2.82	11.1		1
06958	Manganese	7439-96-5	308		0.0865	0.555		1
10145	Phosphorus	7723-14-0	224		0.621	11.1		1
01662	Potassium	7440-09-7	2,800		20.0	55.5		1
01667	Sodium	7440-23-5	1,190		41.4	111		1
07968	Strontium	7440-24-6	129		0.0688	0.555		1
06969	Tin	7440-31-5	428		1.11	11.1		1
06970	Titanium	7440-32-6	1,410		0.421	1.11		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	111	0.932	5.55		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.08	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.68	0.0659	0.439		2
06126	Barium	7440-39-3	181	0.119	0.439		2
06127	Beryllium	7440-41-7	2.07	0.0176	0.110		2
06128	Cadmium	7440-43-9	2.02	0.0395	0.110		2
06131	Chromium	7440-47-3	40.8	0.132	0.439		2
06132	Cobalt	7440-48-4	82.2	0.0220	0.110		2
06133	Copper	7440-50-8	22.2	0.0725	0.439		2
06135	Lead	7439-92-1	13.7	0.0114	0.220		2
06138	Molybdenum	7439-98-7	19.4	0.0549	0.110		2
06139	Nickel	7440-02-0	30.6	0.110	0.439		2
06141	Selenium	7782-49-2	2.93	0.0439	0.439		2
06142	Silver	7440-22-4	19.5	0.0132	0.110		2
06145	Thallium	7440-28-0	1.11	0.0329	0.110		2
06148	Vanadium	7440-62-2	69.3	0.0242	0.110		2
06149	Zinc	7440-66-6	86.2	0.615	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.190	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.1	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	14.0	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	554	10.2	33.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	43.6	1.1	5.7		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	5.8	0.20	0.56		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1

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Sample Description: **SL-044-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-044-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562AA	12/22/2010 20:34	Laura M Krieger	0.83
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562AA	12/22/2010 21:19	Laura M Krieger	0.76
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010 12:28	Jason M Long	19.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 12:59	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623393	12/22/2010 13:16	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623393	12/22/2010 12:58	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 12:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLH026	01/19/2011 21:35	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLM026	01/11/2011 20:39	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLM026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLH026	12/29/2010 06:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 14:32	Marie D John	19.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 12:59	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/05/2011 02:23	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 17:51	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103630013A	01/11/2011 23:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103630013A	12/29/2010 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 16:26	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 15:44	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 21:36	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 02:50	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1

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Sample Description: **SL-044-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/04/2011 12:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/04/2011 12:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/04/2011 12:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/04/2011 12:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 02:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 00:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201A	01/14/2011 00:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 19:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243202A	01/18/2011 00:18	Joseph E McKenzie	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201B	12/30/2010 19:00	Joseph E McKenzie	1

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Sample Description: **SL-044-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172091
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201B	12/30/2010 08:20	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243202A	01/12/2011 22:55	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-044-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	270	6.2	7.4		0.82
06192	Benzene	71-43-2	19	0.09	3.7		0.82
06192	Bromobenzene	108-86-1	17	0.12	3.7		0.82
06192	Bromochloromethane	74-97-5	18	0.31	3.7		0.82
06192	Bromodichloromethane	75-27-4	17	0.07	3.7		0.82
06192	Bromoform	75-25-2	16	0.37	3.7		0.82
06192	Bromomethane	74-83-9	13	0.23	3.7		0.82
06192	2-Butanone	78-93-3	180	1.1	7.4		0.82
06192	n-Butylbenzene	104-51-8	18	0.11	3.7		0.82
06192	sec-Butylbenzene	135-98-8	18	0.06	3.7		0.82
06192	tert-Butylbenzene	98-06-6	18	0.15	3.7		0.82
06192	Carbon Tetrachloride	56-23-5	19	0.13	3.7		0.82
06192	Chlorobenzene	108-90-7	18	0.10	3.7		0.82
06192	Chloroethane	75-00-3	13	0.12	3.7		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.28	3.7		0.82
06192	Chloroform	67-66-3	19	0.11	3.7		0.82
06192	Chloromethane	74-87-3	17	0.31	3.7		0.82
06192	2-Chlorotoluene	95-49-8	18	0.13	3.7		0.82
06192	4-Chlorotoluene	106-43-4	18	0.13	3.7		0.82
06192	Chlorotrifluoroethene	79-38-9	8.3	0.46	4.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.65	3.7		0.82
06192	Dibromochloromethane	124-48-1	17	0.19	3.7		0.82
06192	1,2-Dibromoethane	106-93-4	17	0.16	3.7		0.82
06192	Dibromomethane	74-95-3	18	0.22	3.7		0.82
06192	1,2-Dichlorobenzene	95-50-1	17	0.08	3.7		0.82
06192	1,3-Dichlorobenzene	541-73-1	17	0.11	3.7		0.82
06192	1,4-Dichlorobenzene	106-46-7	17	0.15	3.7		0.82
06192	Dichlorodifluoromethane	75-71-8	12	0.11	3.7		0.82
06192	1,1-Dichloroethane	75-34-3	19	0.09	3.7		0.82
06192	1,2-Dichloroethane	107-06-2	18	0.14	3.7		0.82
06192	1,1-Dichloroethene	75-35-4	19	0.36	3.7		0.82
06192	cis-1,2-Dichloroethene	156-59-2	19	0.18	3.7		0.82
06192	trans-1,2-Dichloroethene	156-60-5	19	0.11	3.7		0.82
06192	1,2-Dichloropropane	78-87-5	19	0.16	3.7		0.82
06192	1,3-Dichloropropane	142-28-9	18	0.07	3.7		0.82
06192	2,2-Dichloropropane	594-20-7	18	0.16	3.7		0.82
06192	1,1-Dichloropropene	563-58-6	19	0.12	3.7		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.15	3.7		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.16	3.7		0.82
06192	Ethylbenzene	100-41-4	18	0.06	3.7		0.82
06192	Freon 113	76-13-1	19	0.10	3.7		0.82
06192	Freon 133a	75-88-7	14	0.46	4.6		0.81
06192	Hexachlorobutadiene	87-68-3	17	0.13	3.7		0.82
06192	2-Hexanone	591-78-6	79	1.5	7.4		0.82
06192	Isopropylbenzene	98-82-8	18	0.06	3.7		0.82
06192	p-Isopropyltoluene	99-87-6	18	0.10	3.7		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	17	0.19	3.7		0.82
06192	4-Methyl-2-pentanone	108-10-1	66	0.36	7.4		0.82
06192	Methylene Chloride	75-09-2	18	0.22	3.7		0.82
06192	n-Propylbenzene	103-65-1	19	0.06	3.7		0.82

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Sample Description: SL-044-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

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04445 SDG#: DE048-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	18		0.09	3.7		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	18		0.10	3.7		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.21	3.7		0.82
06192	Tetrachloroethene	127-18-4	18		0.19	3.7		0.82
06192	Toluene	108-88-3	18		0.07	3.7		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.13	3.7		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	15		0.17	3.7		0.82
06192	1,1,1-Trichloroethane	71-55-6	18		0.19	3.7		0.82
06192	1,1,2-Trichloroethane	79-00-5	18		0.25	3.7		0.82
06192	Trichloroethene	79-01-6	18		0.14	3.7		0.82
06192	Trichlorofluoromethane	75-69-4	16		0.27	3.7		0.82
06192	1,2,3-Trichloropropane	96-18-4	17		0.31	3.7		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	18		0.37	3.7		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	18		0.09	3.7		0.82
06192	Vinyl Chloride	75-01-4	16		0.19	3.7		0.82
06192	m+p-Xylene	179601-23-1	36		0.16	3.7		0.82
06192	o-Xylene	95-47-6	17		0.16	3.7		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	100		4.6	14		20.29
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	653		18.9	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,100		190	570		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	3,600	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		19	190		1
04688	Benzoic acid	65-85-0	1,000		190	570		1
04688	Benzyl alcohol	100-51-6	1,600		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,900		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190		1
04688	4-Chloroaniline	106-47-8	1,000		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,700		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,700	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500	19	190		1
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000	38	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,600	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	2,000	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	380		1
04688	Fluoranthene	206-44-0	1,900	19	190		1
04688	Fluorene	86-73-7	1,800	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,900	190	570		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,600	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	2,000	19	190		1
04688	3-Nitroaniline	99-09-2	1,800	38	190		1
04688	4-Nitroaniline	100-01-6	1,600	75	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	2,100	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	570		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,700	19	190		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,700		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.75	1.9		1
10138	Acenaphthylene	208-96-8	33		0.38	1.9		1
10138	Anthracene	120-12-7	35		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	35		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	39		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	38		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	41		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	40		6.8	20		1
10138	Chrysene	218-01-9	36		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	36		0.75	1.9		1
10138	Diethylphthalate	84-66-2	38		6.8	20		1
10138	Dimethylphthalate	131-11-3	39		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.8	20		1
10138	Fluoranthene	206-44-0	32		0.75	1.9		1
10138	Fluorene	86-73-7	36		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	35		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	33		0.75	1.9		1
10138	Naphthalene	91-20-3	34		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	36		6.8	20		1
10138	Phenanthrene	85-01-8	35		0.75	1.9		1
10138	Pyrene	129-00-0	35		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.4		0.2	1.0		22.69
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,900		85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,800		57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1

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Sample Description: SL-044-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,800		57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,800		57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,900		57	170	10000000	1
10132	HMX	2691-41-0	2,500		140	420	10000000	1
10132	Nitrobenzene	98-95-3	2,900		57	170	10000000	1
10132	Nitroglycerin	55-63-0	60,000		1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	3,000		110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	3,000		140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	3,000		110	170	10000000	1
10132	PETN	78-11-5	68,000		1,100	3,400	10000000	1
10132	RDX	121-82-4	2,600		71	170	10000000	1
10132	Tetryl	479-45-8	3,100		87	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,200		57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,800		57	170	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	14,000		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	19		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	22		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

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Sample Description: **SL-044-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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04445 SDG#: DE048-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.66	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	3.3		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.53	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,500		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,600		110	570		1

Methanol was detected in the method blank at a concentration of 230 ug/kg. Due to a laboratory error the final volume was increased by a factor of two. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	160		5.7	14		1
08283	Ethylene glycol	107-21-1	170		5.7	14		1
08283	Propylene glycol	57-55-6	160		5.7	14		1

Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	2.0	J	1.7	4.0		1
10318	o-Terphenyl	84-15-1	2.0	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.9	J	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		5.63	22.4		1
07914	Boron	7440-42-8	224		0.997	5.60		1
01650	Calcium	7440-70-2	2,460		6.87	22.4		1
01654	Iron	7439-89-6	18,500		5.28	22.4		1
01656	Lithium	7439-93-2	128		0.25	2.2		1
01657	Magnesium	7439-95-4	3,820		2.84	11.2		1
06958	Manganese	7439-96-5	312		0.0874	0.560		1
10145	Phosphorus	7723-14-0	231		0.627	11.2		1
01662	Potassium	7440-09-7	2,750		20.2	56.0		1
01667	Sodium	7440-23-5	1,180		41.8	112		1
07968	Strontium	7440-24-6	127		0.0694	0.560		1
06969	Tin	7440-31-5	427		1.12	11.2		1
06970	Titanium	7440-32-6	1,390		0.426	1.12		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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04445 SDG#: DE048-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	111	0.941	5.60		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.16	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.77	0.0665	0.444		2
06126	Barium	7440-39-3	177	0.120	0.444		2
06127	Beryllium	7440-41-7	2.11	0.0177	0.111		2
06128	Cadmium	7440-43-9	2.02	0.0399	0.111		2
06131	Chromium	7440-47-3	42.4	0.133	0.444		2
06132	Cobalt	7440-48-4	87.0	0.0222	0.111		2
06133	Copper	7440-50-8	23.2	0.0732	0.444		2
06135	Lead	7439-92-1	13.6	0.0115	0.222		2
06138	Molybdenum	7439-98-7	20.1	0.0555	0.111		2
06139	Nickel	7440-02-0	31.7	0.111	0.444		2
06141	Selenium	7782-49-2	3.00	0.0444	0.444		2
06142	Silver	7440-22-4	19.8	0.0133	0.111		2
06145	Thallium	7440-28-0	1.04	0.0333	0.111		2
06148	Vanadium	7440-62-2	70.8	0.0244	0.111		2
06149	Zinc	7440-66-6	82.4	0.621	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.203	0.0032	0.113		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-044-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562AA	12/22/2010 20:56	Laura M Krieger	0.82
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562AA	12/22/2010 21:41	Laura M Krieger	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010 12:48	Jason M Long	20.29

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-044-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:03	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623393	12/22/2010 13:02	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 13:03	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLH026	01/19/2011 22:10	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLM026	01/11/2011 21:11	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLM026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLH026	12/29/2010 06:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 15:08	Marie D John	22.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:02	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/05/2011 04:30	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 18:01	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103630013A	01/12/2011 00:00	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103630013A	12/29/2010 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 16:51	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 15:59	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 21:52	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 03:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/04/2011 13:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/04/2011 13:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/04/2011 13:03	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-044-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172092
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/04/2011 13:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 02:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172093
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		5.58	22.2		1
07914	Boron	7440-42-8	0.987	U	0.987	5.55		1
01650	Calcium	7440-70-2	1,940		6.80	22.2		1
01654	Iron	7439-89-6	18,500		5.22	22.2		1
01656	Lithium	7439-93-2	18.4		0.24	2.2		1
01657	Magnesium	7439-95-4	3,460		2.82	11.1		1
06958	Manganese	7439-96-5	249		0.0865	0.555		1
10145	Phosphorus	7723-14-0	113		0.621	11.1		1
01662	Potassium	7440-09-7	1,320		20.0	55.5		1
01667	Sodium	7440-23-5	98.6	J	41.4	111		1
07968	Strontium	7440-24-6	20.3		0.0688	0.555		1
06969	Tin	7440-31-5	2.30	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,100		0.421	1.11		1
10146	Zirconium	7440-67-7	2.31	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.33		0.0672	0.448		2
06126	Barium	7440-39-3	137		0.121	0.448		2
06127	Beryllium	7440-41-7	0.919		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0890	J	0.0403	0.112		2
06131	Chromium	7440-47-3	23.5		0.134	0.448		2
06132	Cobalt	7440-48-4	7.75		0.0224	0.112		2
06133	Copper	7440-50-8	7.15		0.0739	0.448		2
06135	Lead	7439-92-1	7.83		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.861		0.0560	0.112		2
06139	Nickel	7440-02-0	13.4		0.112	0.448		2
06141	Selenium	7782-49-2	0.0857	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0723	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.326		0.0336	0.112		2
06148	Vanadium	7440-62-2	50.6		0.0246	0.112		2
06149	Zinc	7440-66-6	58.8		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0225	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.23	1.1		1

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Sample Description: SL-044-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172093
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	459		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.51		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	01/04/2011 12:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/04/2011 12:55	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/04/2011 12:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/04/2011 12:55	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 02:34	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 11:15	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172093
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04445 SDG#: DE048-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 11:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 11:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 00:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201A	01/14/2011 00:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 18:47	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243202A	01/18/2011 01:06	Joseph E McKenzie	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201B	12/30/2010 19:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201B	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182101C	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401C	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243202A	01/12/2011 22:55	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-044-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04478 SDG#: DE048-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	22		6.9	8.2		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	2.6	J	1.3	8.2		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	0.63	J	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: **SL-044-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04478 SDG#: DE048-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.08
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	26	J	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Sample Description: SL-044-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04478 SDG#: DE048-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.49	J	0.38	1.9		1
10138	Anthracene	120-12-7	1.5	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	5.6		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	47		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	53		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	97		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	15		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	14		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	6.0		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1

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Sample Description: SL-044-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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04478 SDG#: DE048-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	23		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	100		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.84	J	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	13		0.76	1.9		1
10138	Pyrene	129-00-0	28		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.84
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85	U	85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	71	U	71	170	10000000	1
10132	Tetryl	479-45-8	87	U	87	170	10000000	1

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Sample Description: SL-044-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
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04478 SDG#: DE048-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	2,100		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.91	U	0.91	2.7		2
10199	EFH (C15-C20)	n.a.	1.1	J	0.91	2.7		2
10199	EFH (C21-C30)	n.a.	22		0.91	2.7		2
10199	EFH (C30 - C40)	n.a.	88		0.91	2.7		2
10199	EFH (C8-C11)	n.a.	0.91	U	0.91	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	170	J	110	570		1
	Methanol was detected in the method blank at a concentration of 230 ug/kg. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The methanol result for the original extraction is 330 ug/kg; the ethanol and isopropanol results for the original extraction are <200 ug/kg.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	9.1	U	9.1	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04478 SDG#: DE048-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request. Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.55	22.1		1
07914	Boron	7440-42-8	3.96	J	0.982	5.52		1
01650	Calcium	7440-70-2	1,330		6.76	22.1		1
01654	Iron	7439-89-6	14,300		5.20	22.1		1
01656	Lithium	7439-93-2	15.8		0.24	2.2		1
01657	Magnesium	7439-95-4	2,850		2.80	11.0		1
06958	Manganese	7439-96-5	108		0.0861	0.552		1
10145	Phosphorus	7723-14-0	67.9		0.618	11.0		1
01662	Potassium	7440-09-7	967		19.9	55.2		1
01667	Sodium	7440-23-5	101	J	41.2	110		1
07968	Strontium	7440-24-6	14.8		0.0684	0.552		1
06969	Tin	7440-31-5	2.35	J	1.10	11.0		1
06970	Titanium	7440-32-6	957		0.419	1.10		1
10146	Zirconium	7440-67-7	1.09	J	0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0961	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.80		0.0656	0.437		2
06126	Barium	7440-39-3	94.8		0.118	0.437		2
06127	Beryllium	7440-41-7	0.526		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0689	J	0.0393	0.109		2
06131	Chromium	7440-47-3	19.0		0.131	0.437		2
06132	Cobalt	7440-48-4	4.10		0.0219	0.109		2
06133	Copper	7440-50-8	5.03		0.0721	0.437		2
06135	Lead	7439-92-1	6.07		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.556		0.0546	0.109		2
06139	Nickel	7440-02-0	9.11		0.109	0.437		2
06141	Selenium	7782-49-2	0.0465	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0349	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.264		0.0328	0.109		2
06148	Vanadium	7440-62-2	38.8		0.0240	0.109		2
06149	Zinc	7440-66-6	46.5		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04478 SDG#: DE048-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	429		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-044-SA5B-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562AA	12/22/2010	22:04	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010	13:08	Jason M Long	22.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010	13:06	Larry E Bevins	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04478 SDG#: DE048-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623393	12/22/2010 13:05	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 15:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLH026	01/19/2011 23:21	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLM026	01/11/2011 22:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLM026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLH026	12/29/2010 06:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 15:45	Marie D John	19.84
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:05	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/05/2011 05:13	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 18:10	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103630013A	01/12/2011 00:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103630013A	12/29/2010 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	01/05/2011 12:33	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 16:13	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 22:40	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 04:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 16:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 16:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-044-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172094
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04478 SDG#: DE048-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 16:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 04:00	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 12:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 12:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 12:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 12:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 01:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201A	01/14/2011 01:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 19:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243202A	01/18/2011 01:22	Joseph E McKenzie	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201B	12/30/2010 19:03	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201B	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182101C	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401C	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243202A	01/12/2011 22:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-045-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.1	8.5		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.96
06192	Methylene Chloride	75-09-2	1.2	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Sample Description: SL-045-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.76
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1

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Sample Description: SL-045-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Sample Description: **SL-045-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.69
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U	83	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U	55	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	55	U	55	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	55	U	55	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	55	U	55	170	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	55	U	55	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U	69	170	10000000	1
10132	Tetryl	479-45-8	85	U	85	170	10000000	1

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Sample Description: SL-045-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	55	U	55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U	55	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.0		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	5.1		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
	Methanol was detected in the method blank at a concentration of 230 ug/kg. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The methanol result for the original extraction is 310 ug/kg; the ethanol and isopropanol results for the original extraction are <200 ug/kg.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.6	U	6.6	14		1
08283	Ethylene glycol	107-21-1	6.6	U	6.6	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-045-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request. Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.46	21.7		1
07914	Boron	7440-42-8	5.45		0.965	5.42		1
01650	Calcium	7440-70-2	2,850		6.65	21.7		1
01654	Iron	7439-89-6	19,100		5.11	21.7		1
01656	Lithium	7439-93-2	27.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,090		2.75	10.8		1
06958	Manganese	7439-96-5	287		0.0846	0.542		1
10145	Phosphorus	7723-14-0	401		0.607	10.8		1
01662	Potassium	7440-09-7	3,020		19.5	54.2		1
01667	Sodium	7440-23-5	94.9	J	40.5	108		1
07968	Strontium	7440-24-6	14.2		0.0672	0.542		1
06969	Tin	7440-31-5	2.50	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,150		0.412	1.08		1
10146	Zirconium	7440-67-7	0.911	U	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.60		0.0657	0.438		2
06126	Barium	7440-39-3	132		0.118	0.438		2
06127	Beryllium	7440-41-7	0.655		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.179		0.0394	0.110		2
06131	Chromium	7440-47-3	24.6		0.131	0.438		2
06132	Cobalt	7440-48-4	7.75		0.0219	0.110		2
06133	Copper	7440-50-8	9.82		0.0723	0.438		2
06135	Lead	7439-92-1	7.89		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.683		0.0548	0.110		2
06139	Nickel	7440-02-0	15.1		0.110	0.438		2
06141	Selenium	7782-49-2	0.117	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0315	J	0.0131	0.110		2
06145	Thallium	7440-28-0	0.426		0.0329	0.110		2
06148	Vanadium	7440-62-2	51.3		0.0241	0.110		2
06149	Zinc	7440-66-6	98.5		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1

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Sample Description: SL-045-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.0		0.88	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	449		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-045-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562AA	12/22/2010 22:26	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571AA	12/23/2010 13:28	Jason M Long	23.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:13	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: SL-045-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623393	12/22/2010 13:15	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623393	12/22/2010 13:12	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 15:54	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10362SLH026	01/19/2011 23:56	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362SLM026	01/11/2011 22:47	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10362SLM026	12/29/2010 06:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10362SLH026	12/29/2010 06:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 16:21	Marie D John	19.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623393	12/22/2010 13:12	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103630002A	01/05/2011 05:55	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 18:20	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103630013A	01/12/2011 00:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103630013A	12/29/2010 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103630002A	12/30/2010 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 18:06	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 16:28	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 20:16	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 05:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103575708004	01/01/2011 16:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103575708004	01/01/2011 16:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1

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Sample Description: **SL-045-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172095
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04534 SDG#: DE048-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103575708004	01/01/2011 16:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	103575708004	12/30/2010 04:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103571026001D	12/31/2010 12:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103571026001C	12/31/2010 12:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103571026001B	12/31/2010 12:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103571026001A	12/31/2010 12:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103575711005	12/28/2010 19:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103575708004	12/26/2010 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103571026001	12/26/2010 20:38	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103575711005	12/26/2010 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 01:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201A	01/14/2011 01:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 20:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11012243202A	01/18/2011 01:38	Joseph E McKenzie	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102201B	12/30/2010 19:04	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102201B	12/30/2010 08:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182101C	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401C	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11012243202A	01/12/2011 22:55	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-122010 Water
SSFL Area IV Collocated Soil Sampling
TB-122010

LLI Sample # WW 6172096
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:30

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB220 SDG#: DE048-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-122010 Water
SSFL Area IV Collocated Soil Sampling
TB-122010

LLI Sample # WW 6172096
LLI Group # 1226684
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 12:30

Submitted: 12/22/2010 10:55
Reported: 01/21/2011 15:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB220 SDG#: DE048-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103572AA	12/23/2010	16:34	Sara E Johnson	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103562AA	12/22/2010	20:59	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103562AA	12/22/2010	20:59	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103572AA	12/23/2010	16:34	Sara E Johnson	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10357A94A	12/24/2010	14:14	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10357A94A	12/24/2010	14:14	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103562AA	Sample number(s): 6172089-6172092,6172094-6172095									
Acetone	6.7	U	6.7	8.0	ug/kg	182		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	90		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	98		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	93		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	75		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	138		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	96		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	95		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	91		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	80		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	108		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	86		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	92		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	55		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	95		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	94		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	90		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	91		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	100		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	89		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	102		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	80		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	91		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	95		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	95		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	80		61-134		
Methylene Chloride	0.55	J	0.24	4.0	ug/kg	95		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	98		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	91		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	89		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	97		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	94		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	95		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	87		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	93		80-120		
Batch number: E103562AA	Sample number(s): 6172096									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	104	60-132	3	30
Batch number: E103571AA	Sample number(s): 6172089-6172092,6172094-6172095									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	101	98	70-130	3	30
Batch number: Y103572AA	Sample number(s): 6172096									
Acetone	6	U	6.	20	ug/l	213	204	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	95	94	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	98	95	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	100	99	80-120	2	30
Bromoform	1	U	1.	5	ug/l	103	102	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	79	80	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	157*	152*	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	91	90	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	90	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	113	113	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	85	85	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	112	111	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	103	101	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	81	82	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	92	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	97	92	38-136	5	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	124*	119	66-120	4	30
Dibromochloromethane	1	U	1.	5	ug/l	104	104	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	97	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	98	95	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	93	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	64	64	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	105	105	79-120	0	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	112	112	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	88	86	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	101	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	104	103	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	98	79-120	0	30
Freon 113	2	U	2.	10	ug/l	93	91	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	89	88	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	89	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	146*	143*	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	103	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	117	116	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	88	86	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	104	102	80-120	2	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	105	105	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	104	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	97	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	96	95	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	90	90	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	88	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	95	93	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	85	83	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	112	110	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	103	100	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	98	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	75	74	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30

Batch number: 10362SLH026 Sample number(s): 6172089-6172092,6172094-6172095

Acenaphthene	17 U	17.	170	ug/kg	96	76-111	
Acenaphthylene	17 U	17.	170	ug/kg	98	75-122	
Aniline	170 U	170.	500	ug/kg	38	10-107	
Anthracene	17 U	17.	170	ug/kg	96	76-112	
Benzidine	1,200 U	1,200.	3,300	ug/kg	30	15-121	
Benzo(a)anthracene	17 U	17.	170	ug/kg	94	73-112	
Benzo(a)pyrene	17 U	17.	170	ug/kg	83	69-122	
Benzo(b)fluoranthene	17 U	17.	170	ug/kg	83	61-127	
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	81	65-122	
Benzo(k)fluoranthene	17 U	17.	170	ug/kg	83	67-125	
Benzoic acid	170 U	170.	500	ug/kg	88	10-154	
Benzyl alcohol	170 U	170.	500	ug/kg	86	68-111	
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	97	79-117	
Butylbenzylphthalate	17 U	17.	170	ug/kg	101	75-115	

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	91		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	90		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	82		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	32*		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	82		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	78		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	102		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Fluorene	17	U	17.	170	ug/kg	97		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	102		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	107		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	83		64-119		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	93		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	87		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	90		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	81		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	59		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	96		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	73		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	90		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	77		35-106		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		
Batch number: 10362SLM026	Sample number(s): 6172089-6172092,6172094-6172095									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	122		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	94		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	118		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	93		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	114		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	109		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	93		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	103		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	110		56-121		
Batch number: 10363SLG026	Sample number(s): 6172089-6172092,6172094-6172095									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 10357A34A	Sample number(s): 6172089-6172092,6172094-6172095									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	75	67-119	9	30
Batch number: 10357A94A	Sample number(s): 6172096									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 103630002A	Sample number(s): 6172089-6172092,6172094-6172095									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	114		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	95	101	54-134	6	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	94	100	54-134	6	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	111		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	108		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	116		80-120		
HMX	130 U		130.	380	ug/kg	102		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	110		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	99		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	100 U		100.	150	ug/kg	114		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	114		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	113		80-120		
PETN	1,000 U		1,000.	3,000	ug/kg	113		80-120		
RDX	63	U	63.	150	ug/kg	111		75-131		
Tetryl	77	U	77.	150	ug/kg	134		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	127		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	115		80-120		
Batch number: 103610005A	Sample number(s): 6172089-6172092,6172094-6172095									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	99		80-126		
Batch number: 103630013A	Sample number(s): 6172089-6172092,6172094-6172095									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73*	79	75-125	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	117		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	142*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103620026A	Sample number(s): 6172089-6172092,6172094-6172095									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		66-113		
Batch number: 103640014A	Sample number(s): 6172089-6172092,6172094-6172095									
Ethanol	100 U		100.	500	ug/kg	103		75-112		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	97		75-134		
Batch number: 103640020A	Sample number(s): 6172089-6172092,6172094-6172095									
Diethylene glycol	7.0	U	7.0	13	mg/kg	92		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	91		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	89		75-125		
Batch number: 103640012A	Sample number(s): 6172089-6172092,6172094-6172095									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	111		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
Batch number: 103571026001A	Sample number(s): 6172089-6172095									
Antimony	0.0600	U	0.0600	0.200	mg/kg	99		11-208		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Arsenic	0.0600 U	0.0600	0.400	mg/kg	98		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	96		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	103		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	105		80-120		
Cobalt	0.0223 J	0.0200	0.100	mg/kg	94		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	95		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	100		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	103		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	100		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	101		78-122		
Batch number: 103571026001B	Sample number(s): 6172089-6172095								
Selenium	0.0400 U	0.0400	0.400	mg/kg	98		79-122		
Batch number: 103571026001C	Sample number(s): 6172089-6172095								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	104		78-122		
Batch number: 103571026001D	Sample number(s): 6172089-6172095								
Barium	0.108 U	0.108	0.400	mg/kg	95		79-121		
Batch number: 103575708004	Sample number(s): 6172089-6172095								
Aluminum	5.03 U	5.03	20.0	mg/kg	105		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	99		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	104		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	3.33 J	2.54	10.0	mg/kg	103		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.56 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	99		78-110		
Sodium	37.3 U	37.3	100	mg/kg	102		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.37 J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	108		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 103575711005	Sample number(s): 6172089-6172095								
Mercury	0.0028 U	0.0028	0.0988	mg/kg	104		88-123		
Batch number: 10364102201B	Sample number(s): 6172089-6172091,6172093-6172095								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11010010205A	Sample number(s): 6172089-6172091,6172093-6172095								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11012012201A	Sample number(s): 6172089-6172091,6172093-6172095								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	91		90-110		
Batch number: 11012243202A	Sample number(s): 6172089-6172091,6172093-6172095								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	98		80-120		
Batch number: 10361039401B	Sample number(s): 6172089								
22a pH by 9045C					100		95-105		
Batch number: 10361039401C	Sample number(s): 6172090,6172093-6172095								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
22a pH by 9045C					100		95-105		
Batch number: 10361182101B	Sample number(s): 6172089								
Oxidation Reduction Potential					100		98-102		
Batch number: 10361182101C	Sample number(s): 6172090,6172093-6172095								
Oxidation Reduction Potential					100		98-102		
Batch number: 11011162401B	Sample number(s): 6172089-6172095								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103562AA	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
Acetone	186	173	15-210	7	30				
Benzene	106	103	55-143	4	30				
Bromobenzene	94	93	43-139	2	30				
Bromochloromethane	102	99	60-137	4	30				
Bromodichloromethane	98	94	53-136	5	30				
Bromoform	93	88	38-124	6	30				
Bromomethane	80	70	42-168	15	30				
2-Butanone	137	127	37-163	8	30				
n-Butylbenzene	102	99	30-146	4	30				
sec-Butylbenzene	101	100	33-157	3	30				
tert-Butylbenzene	95	95	41-152	1	30				
Carbon Tetrachloride	104	101	45-153	4	30				
Chlorobenzene	100	96	49-135	5	30				
Chloroethane	80	73	39-152	11	30				
2-Chloroethyl Vinyl Ether	102	96	32-139	7	30				
Chloroform	103	100	61-142	4	30				
Chloromethane	102	90	51-163	13	30				
2-Chlorotoluene	97	95	42-146	3	30				
4-Chlorotoluene	98	97	39-145	2	30				
Chlorotrifluoroethene	52*	46*	70-130	8	30				
1,2-Dibromo-3-chloropropane	88	83	30-139	6	30				
Dibromochloromethane	98	93	51-128	6	30				
1,2-Dibromoethane	97	93	54-129	5	30				
Dibromomethane	101	97	57-130	4	30				
1,2-Dichlorobenzene	98	94	36-133	5	30				
1,3-Dichlorobenzene	95	93	34-134	4	30				
1,4-Dichlorobenzene	96	93	35-136	4	30				
Dichlorodifluoromethane	70	66	26-151	6	30				
1,1-Dichloroethane	105	103	63-142	3	30				
1,2-Dichloroethane	104	99	68-131	5	30				
1,1-Dichloroethene	104	102	61-149	3	30				
cis-1,2-Dichloroethene	105	101	60-136	4	30				
trans-1,2-Dichloroethene	105	101	59-142	4	30				

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Quality Control Summary

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Reported: 01/21/11 at 03:30 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloropropane	103	100	62-135	3	30				
1,3-Dichloropropane	99	96	58-129	4	30				
2,2-Dichloropropane	101	98	53-147	3	30				
1,1-Dichloropropene	105	102	54-145	4	30				
cis-1,3-Dichloropropene	93	90	51-131	3	30				
trans-1,3-Dichloropropene	92	89	49-129	4	30				
Ethylbenzene	101	98	44-141	4	30				
Freon 113	107	105	56-156	3	30				
Freon 133a	82	79	70-130	1	30				
Hexachlorobutadiene	94	89	10-155	6	30				
2-Hexanone	92	85	32-160	8	30				
Isopropylbenzene	100	96	38-144	4	30				
p-Isopropyltoluene	100	98	29-152	3	30				
Methyl Tertiary Butyl Ether	95	93	55-129	3	30				
4-Methyl-2-pentanone	77	71	46-139	8	30				
Methylene Chloride	95	94	61-141	3	30				
n-Propylbenzene	103	102	39-157	2	30				
Styrene	100	96	35-134	5	30				
1,1,1,2-Tetrachloroethane	100	97	52-130	4	30				
1,1,2,2-Tetrachloroethane	95	92	40-152	5	30				
Tetrachloroethene	103	99	42-149	4	30				
Toluene	103	99	50-146	5	30				
1,2,3-Trichlorobenzene	91	82	10-140	11	30				
1,2,4-Trichlorobenzene	90	82	10-136	10	30				
1,1,1-Trichloroethane	100	97	64-142	4	30				
1,1,2-Trichloroethane	99	95	54-139	5	30				
Trichloroethene	103	98	53-144	6	30				
Trichlorofluoromethane	106	84	47-163	24	30				
1,2,3-Trichloropropane	95	90	45-154	6	30				
1,2,4-Trimethylbenzene	99	98	37-149	2	30				
1,3,5-Trimethylbenzene	100	98	38-150	3	30				
Vinyl Chloride	100	86	50-154	16	30				
m+p-Xylene	103	98	44-137	5	30				
o-Xylene	98	94	42-137	4	30				
Batch number: E103562AA	Sample number(s): 6172096 UNSPK: P171167								
1,4-Dioxane	109		50-150						
Batch number: E103571AA	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
1,4-Dioxane	86	89	70-130	6	30				
Batch number: 10362SLH026	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
Acenaphthene	93	94	75-115	1	30				
Acenaphthylene	101	95	49-126	5	30				
Aniline	58	58	14-114	1	30				
Anthracene	95	94	75-115	1	30				
Benzidine	34*	38	35-141	11	30				
Benzo(a)anthracene	94	92	65-122	2	30				
Benzo(a)pyrene	84	83	57-126	2	30				
Benzo(b)fluoranthene	84	83	59-125	2	30				
Benzo(g,h,i)perylene	83	79	59-127	5	30				
Benzo(k)fluoranthene	84	82	56-132	1	30				
Benzoic acid	50	55	10-173	10	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzyl alcohol	89	86	55-123	3	30				
4-Bromophenyl-phenylether	90	85	67-129	6	30				
Butylbenzylphthalate	96	95	73-134	1	30				
Di-n-butylphthalate	96	93	67-123	3	30				
Carbazole	99	99	64-120	0	30				
4-Chloro-3-methylphenol	88	93	53-130	6	30				
4-Chloroaniline	52	54	23-95	5	30				
bis(2-Chloroethoxy)methane	96	95	54-117	2	30				
bis(2-Chloroethyl)ether	86	87	60-116	2	30				
bis(2-Chloroisopropyl)ether	86	80	55-142	8	30				
2-Chloronaphthalene	82	83	50-141	1	30				
2-Chlorophenol	93	92	73-121	2	30				
4-Chlorophenyl-phenylether	97	95	64-119	2	30				
Chrysene	93	91	62-128	2	30				
Dibenz(a,h)anthracene	86	81	65-125	5	30				
Dibenzofuran	96	95	71-112	1	30				
1,2-Dichlorobenzene	85	80	66-108	6	30				
1,3-Dichlorobenzene	82	77	63-109	6	30				
1,4-Dichlorobenzene	83	79	53-113	4	30				
3,3'-Dichlorobenzidine	62	67	25-123	8	30				
2,4-Dichlorophenol	92	93	78-117	1	30				
Diethylphthalate	97	97	66-118	0	30				
2,4-Dimethylphenol	93	95	56-130	2	30				
3,5-Dimethylphenol	102	106	70-130	4	30				
Dimethylphthalate	97	97	64-118	0	30				
4,6-Dinitro-2-methylphenol	80	79	10-148	1	30				
2,4-Dinitrophenol	74	70	20-143	6	30				
2,4-Dinitrotoluene	104	104	57-114	0	30				
2,6-Dinitrotoluene	103	102	69-123	0	30				
1,2-Diphenylhydrazine	96	92	71-129	5	30				
bis(2-Ethylhexyl)phthalate	95	95	63-122	0	30				
Fluoranthene	102	102	59-122	1	30				
Fluorene	96	94	60-125	1	30				
Hexachlorobenzene	91	91	61-111	0	30				
Hexachlorobutadiene	97	92	62-120	5	30				
Hexachlorocyclopentadiene	89	77	10-153	15	30				
Hexachloroethane	84	80	57-109	4	30				
Indeno(1,2,3-cd)pyrene	85	82	61-126	4	30				
Isophorone	92	91	51-118	2	30				
1-Methylnaphthalene	93	91	73-112	2	30				
2-Methylnaphthalene	85	84	76-114	1	30				
2-Methylphenol	89	90	47-142	1	30				
4-Methylphenol	86	87	55-126	1	30				
Naphthalene	89	85	72-116	4	30				
2-Nitroaniline	101	104	67-125	2	30				
3-Nitroaniline	94	96	59-122	2	30				
4-Nitroaniline	76	87	52-112	14	30				
Nitrobenzene	100	96	51-114	4	30				
2-Nitrophenol	96	92	74-115	5	30				
4-Nitrophenol	107	113	39-133	5	30				
N-Nitroso-di-n-propylamine	85	85	60-116	0	30				
N-Nitrosodimethylamine	82	84	47-116	3	30				
N-Nitrosodiphenylamine	92	89	86-145	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	85	84	56-126	1	30				
Pentachlorophenol	73	71	17-149	2	30				
Phenanthrene	94	92	65-125	2	30				
Phenol	93	92	58-126	1	30				
Pyrene	91	89	51-151	2	30				
1,2,4-Trichlorobenzene	92	88	72-115	5	30				
2,4,5-Trichlorophenol	99	98	34-139	1	30				
2,4,6-Trichlorophenol	100	102	49-140	2	30				
Batch number: 10362SLM026	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
Acenaphthene	92	91	63-105	1	30				
Acenaphthylene	93	87	55-126	6	30				
Anthracene	93	94	46-136	1	30				
Benzo(a)anthracene	97	95	39-144	2	30				
Benzo(a)pyrene	93	94	34-156	0	30				
Benzo(b)fluoranthene	100	103	43-155	3	30				
Benzo(g,h,i)perylene	99	100	33-141	0	30				
Benzo(k)fluoranthene	98	98	42-144	0	30				
Butylbenzylphthalate	113	109	73-140	4	30				
Di-n-butylphthalate	111	106	78-160	4	30				
Chrysene	95	94	29-156	0	30				
Dibenz(a,h)anthracene	98	96	41-130	2	30				
Diethylphthalate	109	101	87-131	8	30				
Dimethylphthalate	110	105	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	131	123	39-167	6	30				
Fluoranthene	95	86	26-166	10	30				
Fluorene	103	96	45-121	7	30				
Indeno(1,2,3-cd)pyrene	98	98	21-143	0	30				
1-Methylnaphthalene	89	94	72-123	5	30				
2-Methylnaphthalene	83	88	28-121	5	30				
Naphthalene	89	89	61-102	0	30				
N-Nitrosodimethylamine	104	96	48-113	9	30				
Di-n-octylphthalate	99	96	40-192	2	30				
Phenanthrene	95	94	12-165	1	30				
Pyrene	97	94	15-153	3	30				
Batch number: 10363SLG026	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
N-Nitrosodimethylamine	69*	69*	70-130	0	30				
Batch number: 10357A34A	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
9a TPH by EPA 8015B Gas C5-C12	73	74	39-118	15	30				
Batch number: 103630002A	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
4-Amino-2,6-Dinitrotoluene	94	101	80-127	7	50				
2-Amino-4,6-Dinitrotoluene	93	99	80-137	6	50				
1,3-Dinitrobenzene	96	100	38-166	4	50				
2,4-Dinitrotoluene	93	98	80-131	5	50				
2,6-Dinitrotoluene	98	104	80-127	5	50				
HMX	80	87	63-128	8	50				
Nitrobenzene	100	102	80-125	2	50				
Nitroglycerin	83	89	80-120	6	50				
2-Nitrotoluene	101	105	80-122	4	50				
3-Nitrotoluene	101	105	72-119	3	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitrotoluene	100	104	80-125	4	50				
PETN	92	99	80-121	8	50				
RDX	85	93	75-129	9	50				
Tetryl	99	109	55-174	10	50				
1,3,5-Trinitrobenzene	106	112	82-126	5	50				
2,4,6-Trinitrotoluene	95	100	82-130	6	50				
Batch number: 103610005A	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
17a Formaldehyde by 8315A	62*	70*	80-120	3	50				
Batch number: 103630013A	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
PCB-1016	103	103	29-146	0	50				
PCB-1260	117	117	39-149	1	50				
Batch number: 103620026A	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
EFH (C12-C14)	74	69	49-123	7	20				
EFH (C15-C20)	97	90	49-123	8	20				
EFH (C21-C30)	55	41*	49-123	11	20				
EFH (C30 - C40)	17*	-23*	49-123	29*	20				
EFH (C8-C11)	54	56	49-123	4	20				
Batch number: 103640014A	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
Ethanol	88	88	24-143	1	20				
Isopropanol	80	80	75-125	0	20				
Methanol	77	81	45-136	5	20				
Batch number: 103640020A	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
Diethylene glycol	71	68	59-109	5	20				
Ethylene glycol	78	73	63-107	6	20				
Propylene glycol	73	69	63-107	6	20				
Batch number: 103640012A	Sample number(s): 6172089-6172092,6172094-6172095 UNSPK: 6172090								
m-Terphenyl	105	104	75-125	1	20				
o-Terphenyl	110	108	75-125	1	20				
p-Terphenyl	104	103	75-125	1	20				
Batch number: 103571026001A	Sample number(s): 6172089-6172095 UNSPK: 6172090 BKG: 6172090								
Antimony	69*	74*	75-125	7	20	0.153 J	0.127 J	19 (1)	20
Arsenic	201*	203*	75-125	1	20	4.65	5.60	18	20
Beryllium	139*	142*	75-125	2	20	0.752	0.813	8	20
Cadmium	178*	176*	75-125	0	20	0.0571 J	0.0787 J	32* (1)	20
Chromium	188*	200*	75-125	4	20	17.8	20.8	16	20
Cobalt	137*	145*	75-125	6	20	6.03	6.85	13	20
Copper	142*	149*	75-125	4	20	5.85	6.32	8	20
Lead	222*	216*	75-125	1	20	5.64	6.92	20	20
Nickel	167*	175*	75-125	3	20	10.9	11.8	8	20
Silver	177*	178*	75-125	2	20	0.0549 J	0.0639 J	15 (1)	20
Thallium	184*	167*	75-125	6	20	0.265	0.288	8 (1)	20
Vanadium	248*	260*	75-125	2	20	37.1	44.8	19	20
Zinc	310 (2)	273 (2)	75-125	4	20	46.1	52.0	12	20
Batch number: 103571026001B	Sample number(s): 6172089-6172095 UNSPK: 6172090 BKG: 6172090								
Selenium	130*	132*	75-125	3	20	0.0695 J	0.0758 J	9 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103571026001C	Sample number(s): 6172089-6172095 UNSPK: 6172090 BKG: 6172090								
Molybdenum	170*	175*	75-125	4	20	0.650	0.761	16	20
Batch number: 103571026001D	Sample number(s): 6172089-6172095 UNSPK: 6172090 BKG: 6172090								
Barium	485 (2)	442 (2)	75-125	2	20	113	121	7	20
Batch number: 103575708004	Sample number(s): 6172089-6172095 UNSPK: 6172090 BKG: 6172090								
Aluminum	972 (2)	1060 (2)	75-125	1	20	17,900	17,000	5	20
Boron	99	100	84-115	2	20	0.873 U	0.873 U	0 (1)	20
Calcium	130 (2)	118 (2)	75-125	2	20	1,710	1,710	0	20
Iron	-1116 (2)	-522 (2)	75-125	4	20	16,900	16,400	3	20
Lithium	97	96	82-114	1	20	17.7	16.3	8	20
Magnesium	29 (2)	38 (2)	75-125	1	20	3,300	3,060	8	20
Manganese	73 (2)	80 (2)	75-125	1	20	236	220	7	20
Phosphorus	86	91	75-125	3	20	113	99.7	13	20
Potassium	118	112	75-125	2	20	1,320	1,160	13	20
Sodium	98	96	75-125	1	20	96.3 J	87.2 J	10 (1)	20
Strontium	97	95	75-115	1	20	18.4	18.0	2	20
Tin	96	95	80-110	0	20	2.16 J	2.03 J	6 (1)	20
Titanium	232 (2)	206 (2)	75-125	2	20	1,020	974	5	20
Zirconium	98	98	75-125	1	20	1.80 J	2.04 J	12 (1)	20
Batch number: 103575711005	Sample number(s): 6172089-6172095 UNSPK: 6172090 BKG: 6172090								
Mercury	103	108	65-135	7	20	0.0028 U	0.0199 J	200* (1)	20
Batch number: 10364102201B	Sample number(s): 6172089-6172091,6172093-6172095 UNSPK: 6172090 BKG: 6172090								
21a Cyanide by 9012B	104		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11010010205A	Sample number(s): 6172089-6172091,6172093-6172095 UNSPK: 6172090 BKG: 6172090								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11012012201A	Sample number(s): 6172089-6172091,6172093-6172095 UNSPK: 6172090 BKG: 6172090								
11a Anions by 300.0 - Fluoride	77*		80-120			3.9	3.0	26* (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			1.4 J	1.3 J	10 (1)	20
Batch number: 11012243202A	Sample number(s): 6172089-6172091,6172093-6172095 UNSPK: 6172090 BKG: 6172090								
3a Cr VI by EPA 7199	95		75-125			0.37 J	0.59 J	46* (1)	20
Batch number: 10361039401B	Sample number(s): 6172089 BKG: P172060								
22a pH by 9045C						7.16	7.28	2*	1
Batch number: 10361039401C	Sample number(s): 6172090,6172093-6172095 BKG: 6172090								
22a pH by 9045C						8.54	8.51	0	1
Batch number: 10361182101B	Sample number(s): 6172089 BKG: P172060								
Oxidation Reduction Potential						498	480	4	6
Batch number: 10361182101C	Sample number(s): 6172090,6172093-6172095 BKG: 6172090								
Oxidation Reduction Potential						464	459	1	6

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11011162401B	Sample number(s): 6172089-6172095					BKG: 6172090			
28a Moisture Content by 160.3						11.6	11.6	1	20
28a Moisture Content by 160.3						11.6	11.6	1	20
28a Moisture Content by 160.3						11.6	11.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103562AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6172089	106	100	98	89
6172090	105	101	98	91
6172091	99	102	101	100
6172092	99	101	102	98
6172094	104	100	97	91
6172095	103	101	98	90
Blank	103	100	99	92
LCS	100	105	101	100
MS	99	102	101	100
MSD	99	101	102	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103562AA

	Toluene-d8
6172096	102
Blank	100
LCS	100
LCSD	100
MS	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103571AA

	Toluene-d8
6172089	100
6172090	100
6172091	100
6172092	100
6172094	99
6172095	100
Blank	101

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Quality Control Summary

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Reported: 01/21/11 at 03:30 PM

Surrogate Quality Control

LCS	100
LCSD	100
MS	100
MSD	100
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103572AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6172096	106	100	106	103
Blank	104	100	106	103
LCS	106	101	107	104
LCSD	106	102	107	105
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10362SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172089	94	93	116	87	94	106
6172090	88	90	104	81	91	84
6172091	92	93	111	93	96	84
6172092	91	90	113	89	91	82
6172094	91	89	110	83	91	100
6172095	89	87	105	82	90	94
Blank	88	89	101	83	95	91
LCS	88	89	109	89	95	91
MS	92	93	111	93	96	84
MSD	91	90	113	89	91	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10362SLM026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172089	98	107	89
6172090	89	85	110
6172091	86	89	91
6172092	95	98	91
6172094	96	92	83
6172095	90	88	89
Blank	109	103	106
LCS	98	89	89
MS	86	89	91
MSD	95	98	91
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10363SLG026

	N-Nitrosodimethylamine-d6

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Surrogate Quality Control

6172089	581*
6172090	137
6172091	152*
6172092	151*
6172094	108
6172095	107
Blank	104
LCS	110
MS	152*
MSD	151*

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10357A34A

Trifluorotoluene-F

6172089	85
6172090	86
6172091	84
6172092	85
6172094	89
6172095	84
Blank	87
LCS	91
LCSD	96
MS	84
MSD	85

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10357A94A

Trifluorotoluene-F

6172096	85
Blank	86
LCS	100
LCSD	101

Limits: 63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103610005A

Butyraldehyde

6172089	44*
6172090	106
6172091	102
6172092	102
6172094	91
6172095	102
Blank	92
LCS	97
MS	102
MSD	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Surrogate Quality Control

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 103630002A

	2-Nitro-m-xylene
6172089	121
6172090	111
6172091	111
6172092	117
6172094	103
6172095	117
Blank	114
LCS	124
LCSD	114
MS	111
MSD	117
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103630013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6172089	81	56
6172090	113	83
6172091	108	104
6172092	102	102
6172094	98	101
6172095	113	117
Blank	104	114
LCS	127	137*
LCSD	110	120
MS	108	104
MSD	102	102
Limits:	53-139	45-120

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103620026A

	Chlorobenzene	Orthoterphenyl
6172089	62	75
6172090	60	69
6172091	76	84
6172092	75	84
6172094	73	93
6172095	71	84
Blank	75	85
LCS	79	88
MS	76	84
MSD	75	84
Limits:	37-125	47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103640012A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226684
Reported: 01/21/11 at 03:30 PM

Surrogate Quality Control

	n-Triacontane-d62
6172089	116
6172090	100
6172091	99
6172092	98
6172094	112
6172095	97
Blank	103
LCS	102
MS	99
MSD	98
Limits:	50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 103640014A

	Acetone
6172089	87
6172090	87
6172091	85
6172092	85
6172094	85
6172095	90
Blank	99
LCS	95
MS	85
MSD	85
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103640020A

	Tetramethylene glycol
6172089	80
6172090	61
6172091	84
6172092	80
6172094	41*
6172095	85
Blank	86
LCS	104
MS	84
MSD	80
Limits:	50-119

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13013 1226684 6172089-96

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides*EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SIV-QC-122010	12.20.10	0832	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SEDIMENT DUP
DUP09-SA5B-QC-122010	12.20.10	1011	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SURFACE DUP
DUP14-SA5B-QC-122010	12.20.10	1439	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	SUBSURFACE DUP
DUP14-SA5B-QC-122010	12.20.10	1439	soil	none	5 Encore Samplers	X	X		X																				SUBSURFACE DUP
EB06-SA5B-122010	12.20.10	1235	water	none	6-1 liter ambers			X						X	X			X	X										surface tool rinsate
EB06-SA5B-122010	12.20.10	1235	water	none	1-500 ml poly							X	X			X													surface tool rinsate
EB06-SA5B-122010	12.20.10	1235	water	HNO3	1-500 ml poly						X																		surface tool rinsate
SED-003-SIV-SD-0.0-0.5	12.20.10	0946	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-005-SIV-SD-0.0-0.5MS	12.20.10	0830	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										SEDIMENT MS/MSD
SED-007-SIV-SD-0.0-0.6	12.20.11	1330	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-008-SIV-SD-0.0-0.5	12.20.10	1039	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-034-SIV-SD-0.0-0.5	12.20.10	1530	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-037-SIV-SD-0.0-0.5	12.20.10	1430	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-044-SA5B-SB-4.0-5.0MS	12.20.10	1138	soil	none	12 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	SUBSURFACE MS/MSD
SL-044-SA5B-SB-4.5MS	12.20.10	1130	soil	none	15 Encore Samplers	X	X		X																				SUBSURFACE MS/MSD
SL-044-SA5B-SB-7.0-8.0	12.20.10	1150	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-044-SA5B-SB-7.5	12.20.10	1147	soil	none	5 Encore Samplers	X	X		X																				
SL-045-SA5B-SB-3.0-4.0	12.20.10	1424	soil	none	4 16 oz. Jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-045-SA5B-SB-3.5	12.20.10	1420	soil	none	5 Encore Samplers	X	X		X																				
SL-212-SA5B-SS-0.0-0.5	12.20.10	0922	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-213-SA5B-SS-0.0-0.5	12.20.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-214-SA5B-SS-0.0-0.5	12.20.10	0943	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-215-SA5B-SS-0.0-0.5MS	12.20.10	1005	soil	none	2 x 16 oz. jar s& 2 6" sleeves			X			X	X	X	X	X	X		X	X										SURFACE MS/MSD
SL-216-SA5B-SS-0.0-0.5	12.20.10	0931	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-217-SA5B-SS-0.0-0.5	12.20.10	0950	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
~~SL-218-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1030~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		~~V~~	~~O~~	~~I~~	~~D~~					
~~SL-220-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1028~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~V~~	~~O~~	~~I~~	~~D~~					
~~SL-221-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1100~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		~~V~~	~~O~~	~~I~~	~~D~~					
SL-255-SA5B-SS-0.0-0.5	12.20.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
TB-122010	12.20.10	1230	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.20.10 | 1630	MJM	12/22/10 1055	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.		No. of coolers = 4
		00732992		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/22/2010
Group Number: 1226685
SDG: DX031
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP14-SA5B-QC-122010 Soil	6172097
SL-044-SA5B-SB-4.0-5.0 Soil	6172098
SL-044-SA5B-SB-4.0-5.0MS Soil	6172099
SL-044-SA5B-SB-4.0-5.0MSD Soil	6172100
SL-044-SA5B-SB-7.0-8.0 Soil	6172101
SL-045-SA5B-SB-3.0-4.0 Soil	6172102

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172097
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX031-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172097
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX031-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0269	JQ	0.0268	1.12	1
11031	12378-PeCDD	40321-76-4	0.0455	U	0.0455	5.59	1
11031	123478-HxCDD	39227-28-6	0.0578	JQ	0.0358	5.59	1
11031	123678-HxCDD	57653-85-7	0.195	JQ	0.0375	5.59	1
11031	123789-HxCDD	19408-74-3	0.160	JB	0.0359	5.59	1
11031	1234678-HpCDD	35822-46-9	6.15	B	0.0409	5.59	1
11031	OCDD	3268-87-9	48.3	B	0.0464	11.2	1
11031	2378-TCDF	51207-31-9	0.592	JQ	0.0653	1.12	1
11031	12378-PeCDF	57117-41-6	0.359	JB	0.0187	5.59	1
11031	23478-PeCDF	57117-31-4	0.373	JBQ	0.0195	5.59	1
11031	123478-HxCDF	70648-26-9	0.192	JBQ	0.0331	5.59	1
11031	123678-HxCDF	57117-44-9	0.177	JBQ	0.0283	5.59	1
11031	123789-HxCDF	72918-21-9	0.192	JB	0.0362	5.59	1
11031	234678-HxCDF	60851-34-5	0.234	JB	0.0329	5.59	1
11031	1234678-HpCDF	67562-39-4	1.13	JB	0.0177	5.59	1
11031	1234789-HpCDF	55673-89-7	0.139	JBQ	0.0303	5.59	1
11031	OCDF	39001-02-0	1.79	JBQ	0.0436	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172097
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX031-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP14-SA5B-QC-122010 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5B-QC-122010

LLI Sample # SW 6172097
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:39

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX031-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013002	01/28/2011 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013002	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172098
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172098
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0300 JQ	0.0288	1.13	1
11031	12378-PeCDD	40321-76-4	0.0443 JBQ	0.0361	5.66	1
11031	123478-HxCDD	39227-28-6	0.0480 J	0.0205	5.66	1
11031	123678-HxCDD	57653-85-7	0.0344 JQ	0.0215	5.66	1
11031	123789-HxCDD	19408-74-3	0.0409 JBQ	0.0209	5.66	1
11031	1234678-HpCDD	35822-46-9	0.192 JB	0.0361	5.66	1
11031	OCDD	3268-87-9	1.02 JB	0.0391	11.3	1
11031	2378-TCDF	51207-31-9	0.0229 U	0.0229	1.13	1
11031	12378-PeCDF	57117-41-6	0.0424 JBQ	0.0106	5.66	1
11031	23478-PeCDF	57117-31-4	0.0804 JBQ	0.0115	5.66	1
11031	123478-HxCDF	70648-26-9	0.111 JBQ	0.0215	5.66	1
11031	123678-HxCDF	57117-44-9	0.0609 JBQ	0.0189	5.66	1
11031	123789-HxCDF	72918-21-9	0.0666 JBQ	0.0225	5.66	1
11031	234678-HxCDF	60851-34-5	0.136 JBQ	0.0202	5.66	1
11031	1234678-HpCDF	67562-39-4	0.429 JB	0.0161	5.66	1
11031	1234789-HpCDF	55673-89-7	0.111 JB	0.0279	5.66	1
11031	OCDF	39001-02-0	0.389 JBQ	0.0390	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172098
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172098
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013002	01/28/2011 22:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013002	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172099
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172099
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.3		0.0449	1.13	1
11031	12378-PeCDD	40321-76-4	117	B	0.0524	5.66	1
11031	123478-HxCDD	39227-28-6	114		0.0551	5.66	1
11031	123678-HxCDD	57653-85-7	117		0.0586	5.66	1
11031	123789-HxCDD	19408-74-3	115	B	0.0563	5.66	1
11031	1234678-HpCDD	35822-46-9	118	B	0.0689	5.66	1
11031	OCDD	3268-87-9	234	B	0.0698	11.3	1
11031	2378-TCDF	51207-31-9	24.4		0.0473	1.13	1
11031	12378-PeCDF	57117-41-6	113	B	0.0260	5.66	1
11031	23478-PeCDF	57117-31-4	112	B	0.0274	5.66	1
11031	123478-HxCDF	70648-26-9	115	B	0.0586	5.66	1
11031	123678-HxCDF	57117-44-9	114	B	0.0483	5.66	1
11031	123789-HxCDF	72918-21-9	114	B	0.0612	5.66	1
11031	234678-HxCDF	60851-34-5	115	B	0.0561	5.66	1
11031	1234678-HpCDF	67562-39-4	113	B	0.0378	5.66	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0660	5.66	1
11031	OCDF	39001-02-0	233	B	0.0656	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172099
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172099
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013002	01/28/2011 23:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013002	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172100
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172100
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8		0.0426	1.13	1
11031	12378-PeCDD	40321-76-4	118	B	0.0524	5.66	1
11031	123478-HxCDD	39227-28-6	115		0.0716	5.66	1
11031	123678-HxCDD	57653-85-7	118		0.0758	5.66	1
11031	123789-HxCDD	19408-74-3	114	B	0.0704	5.66	1
11031	1234678-HpCDD	35822-46-9	115	B	0.0759	5.66	1
11031	OCDD	3268-87-9	233	B	0.0810	11.3	1
11031	2378-TCDF	51207-31-9	24.1		0.0424	1.13	1
11031	12378-PeCDF	57117-41-6	116	B	0.0302	5.66	1
11031	23478-PeCDF	57117-31-4	114	B	0.0303	5.66	1
11031	123478-HxCDF	70648-26-9	115	B	0.0598	5.66	1
11031	123678-HxCDF	57117-44-9	116	B	0.0511	5.66	1
11031	123789-HxCDF	72918-21-9	113	B	0.0637	5.66	1
11031	234678-HxCDF	60851-34-5	115	B	0.0594	5.66	1
11031	1234678-HpCDF	67562-39-4	113	B	0.0452	5.66	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0809	5.66	1
11031	OCDF	39001-02-0	235	B	0.0653	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172100
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-044-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-4.0-5.0

LLI Sample # SW 6172100
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:38

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4445 SDG#: DX031-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013002	01/29/2011 00:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013002	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-044-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172101
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4478 SDG#: DX031-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172101
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4478 SDG#: DX031-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0953 JQ	0.0358	1.14	1
11031	12378-PeCDD	40321-76-4	0.164 JBQ	0.0467	5.68	1
11031	123478-HxCDD	39227-28-6	0.0878 JQ	0.0317	5.68	1
11031	123678-HxCDD	57653-85-7	0.0955 JQ	0.0336	5.68	1
11031	123789-HxCDD	19408-74-3	0.147 JBQ	0.0319	5.68	1
11031	1234678-HpCDD	35822-46-9	0.346 JBQ	0.0530	5.68	1
11031	OCDD	3268-87-9	1.13 JB	0.0643	11.4	1
11031	2378-TCDF	51207-31-9	0.0253 U	0.0253	1.14	1
11031	12378-PeCDF	57117-41-6	0.154 JB	0.0165	5.68	1
11031	23478-PeCDF	57117-31-4	0.135 JBQ	0.0153	5.68	1
11031	123478-HxCDF	70648-26-9	0.117 JBQ	0.0240	5.68	1
11031	123678-HxCDF	57117-44-9	0.0862 JB	0.0236	5.68	1
11031	123789-HxCDF	72918-21-9	0.171 JBQ	0.0274	5.68	1
11031	234678-HxCDF	60851-34-5	0.123 JBQ	0.0247	5.68	1
11031	1234678-HpCDF	67562-39-4	0.274 JB	0.0217	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0877 JB	0.0281	5.68	1
11031	OCDF	39001-02-0	0.323 JBQ	0.0490	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-044-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172101
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4478 SDG#: DX031-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5B-SB-7.0-8.0

LLI Sample # SW 6172101
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 11:50

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4478 SDG#: DX031-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013002	01/29/2011 01:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013002	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-045-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172102
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4534 SDG#: DX031-04*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-045-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172102
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4534 SDG#: DX031-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0236	U	0.0236	1.11	1
11031	12378-PeCDD	40321-76-4	0.0511	JBQ	0.0360	5.53	1
11031	123478-HxCDD	39227-28-6	0.0527	JQ	0.0291	5.53	1
11031	123678-HxCDD	57653-85-7	0.139	JQ	0.0303	5.53	1
11031	123789-HxCDD	19408-74-3	0.183	JB	0.0296	5.53	1
11031	1234678-HpCDD	35822-46-9	4.52	JB	0.0358	5.53	1
11031	OCDD	3268-87-9	32.4	B	0.0420	11.1	1
11031	2378-TCDF	51207-31-9	0.513	J	0.0629	1.11	1
11031	12378-PeCDF	57117-41-6	0.290	JB	0.0189	5.53	1
11031	23478-PeCDF	57117-31-4	0.571	JB	0.0202	5.53	1
11031	123478-HxCDF	70648-26-9	0.212	JB	0.0267	5.53	1
11031	123678-HxCDF	57117-44-9	0.133	JB	0.0237	5.53	1
11031	123789-HxCDF	72918-21-9	0.164	JB	0.0332	5.53	1
11031	234678-HxCDF	60851-34-5	0.203	JBQ	0.0259	5.53	1
11031	1234678-HpCDF	67562-39-4	0.955	JB	0.0146	5.53	1
11031	1234789-HpCDF	55673-89-7	0.155	JBQ	0.0251	5.53	1
11031	OCDF	39001-02-0	1.87	JB	0.0455	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-045-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA5B-SB-3.0-4.0

LLI Sample # SW 6172102
LLI Group # 1226685
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/20/2010 14:24

Submitted: 12/22/2010 10:55
Reported: 02/05/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4534 SDG#: DX031-04*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4534 SDG#: DX031-04*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11013002	01/29/2011 06:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11013002	01/13/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11011162401B	01/11/2011 17:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226685
Reported: 02/05/11 at 02:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11011162401B	Sample number(s): 6172097-6172102								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11013002	Sample number(s): 6172097-6172102								
2378-TCDD	0.0205 U	0.0205	1.00	ng/kg	101		67-158		
12378-PeCDD	0.0250 J	0.0223	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0194 U	0.0194	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0203 U	0.0203	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0399 J	0.0205	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.167 J	0.0287	5.00	ng/kg	104		70-140		
OCDD	0.374 J	0.0412	10.0	ng/kg	104		78-144		
2378-TCDF	0.0184 U	0.0184	1.00	ng/kg	115		75-158		
12378-PeCDF	0.0407 J	0.00860	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0757 J	0.00940	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0923 J	0.0194	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0517 J	0.0163	5.00	ng/kg	102		84-130		
123789-HxCDF	0.0966 J	0.0229	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0735 J	0.0182	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.203 J	0.0128	5.00	ng/kg	100		82-122		
1234789-HpCDF	0.112 J	0.0251	5.00	ng/kg	104		78-138		
OCDF	0.296 J	0.0467	10.0	ng/kg	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11011162401B	Sample number(s): 6172097-6172102 BKG: P172090								
28a Moisture Content by 160.3						11.6	11.6	1	20
Batch number: 11013002	Sample number(s): 6172097-6172102 UNSPK: 6172098								
2378-TCDD	98	101	67-158	2	25				
12378-PeCDD	103	105	70-142	1	25				
123478-HxCDD	101	101	70-164	0	25				
123678-HxCDD	103	104	76-134	1	25				
123789-HxCDD	102	101	64-162	1	25				
1234678-HpCDD	104	102	70-140	2	25				
OCDD	103	103	78-144	0	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226685
Reported: 02/05/11 at 02:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	108	106	75-158	1	25				
12378-PeCDF	100	102	80-134	2	25				
23478-PeCDF	99	100	68-160	1	25				
123478-HxCDF	102	101	72-134	0	25				
123678-HxCDF	101	103	84-130	2	25				
123789-HxCDF	101	100	78-130	1	25				
234678-HxCDF	102	102	70-156	0	25				
1234678-HpCDF	100	100	82-122	0	25				
1234789-HpCDF	104	104	78-138	0	25				
OCDF	103	104	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11013002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6172097	70	69	74	83	73	69
6172098	66	69	71	81	72	75
6172099	70	69	72	83	72	70
6172100	68	64	70	78	69	66
6172101	65	62	73	73	69	68
6172102	72	69	73	80	71	65
Blank	78	69	77	90	77	67
MS	70	69	72	83	72	70
MSD	68	64	70	78	69	66
OPR	71	69	71	84	73	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6172097	90	63	61	85	68	79
6172098	94	65	61	84	69	77
6172099	89	60	55	85	70	79
6172100	92	60	56	81	67	78
6172101	69	66	68	80	59	72
6172102	86	62	55	85	70	76
Blank	104	64	56	99	74	89
MS	89	60	55	85	70	79
MSD	92	60	56	81	67	78
OPR	104	60	58	91	77	86
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226685
Reported: 02/05/11 at 02:47 PM

Surrogate Quality Control

6172097	78	76	76	74	72	77
6172098	78	77	78	77	66	77
6172099	77	76	73	68	70	80
6172100	75	75	75	74	68	71
6172101	70	70	68	70	70	64
6172102	76	76	74	73	72	77
Blank	88	85	83	78	75	80
MS	77	76	73	68	70	80
MSD	75	75	75	74	68	71
OPR	83	82	82	82	68	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1226685 6172097-102

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SIV-QC-122010	12.20.10	0832	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SEDIMENT DUP
DUP09-SA5B-QC-122010	12.20.10	1011	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SURFACE DUP
DUP14-SA5B-QC-122010	12.20.10	1439	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	SUBSURFACE DUP
DUP14-SA5B-QC-122010	12.20.10	1439	soil	none	5 Encore Samplers	X	X		X																				SUBSURFACE DUP
EB06-SA5B-122010	12.20.10	1235	water	none	6-1 liter ambers			X						X	X			X	X										surface tool rinsate
EB06-SA5B-122010	12.20.10	1235	water	none	1-500 ml poly							X	X			X													surface tool rinsate
EB06-SA5B-122010	12.20.10	1235	water	HNO3	1-500 ml poly						X																		surface tool rinsate
SED-003-SIV-SD-0.0-0.5	12.20.10	0946	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-005-SIV-SD-0.0-0.5MS	12.20.10	0830	soil	none	2 x 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X										SEDIMENT MS/MSD
SED-007-SIV-SD-0.0-0.6	12.20.11	1330	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-008-SIV-SD-0.0-0.5	12.20.10	1039	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-034-SIV-SD-0.0-0.5	12.20.10	1530	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-037-SIV-SD-0.0-0.5	12.20.10	1430	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-044-SA5B-SB-4.0-5.0MS	12.20.10	1138	soil	none	12 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	SUBSURFACE MS/MSD
SL-044-SA5B-SB-4.5MS	12.20.10	1130	soil	none	15 Encore Samplers	X	X		X																				SUBSURFACE MS/MSD
SL-044-SA5B-SB-7.0-8.0	12.20.10	1150	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-044-SA5B-SB-7.5	12.20.10	1147	soil	none	5 Encore Samplers	X	X		X																				
SL-045-SA5B-SB-3.0-4.0	12.20.10	1424	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-045-SA5B-SB-3.5	12.20.10	1420	soil	none	5 Encore Samplers	X	X		X																				
SL-212-SA5B-SS-0.0-0.5	12.20.10	0922	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-213-SA5B-SS-0.0-0.5	12.20.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-214-SA5B-SS-0.0-0.5	12.20.10	0943	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-215-SA5B-SS-0.0-0.5MS	12.20.10	1005	soil	none	2 x 16 oz. jar s& 2 6" sleeves			X			X	X	X	X	X	X		X	X										SURFACE MS/MSD
SL-216-SA5B-SS-0.0-0.5	12.20.10	0931	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-217-SA5B-SS-0.0-0.5	12.20.10	0950	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X										
~~SL-218-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1030~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		V	O	I	D						
~~SL-220-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1028~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		V	O	I	D						
~~SL-221-SA5B-SS-0.0-0.5~~	~~12.20.10~~	~~1100~~	~~soil~~	~~none~~	~~1 x 16 oz. jar & 1 6" sleeve~~			~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		V	O	I	D						
SL-255-SA5B-SS-0.0-0.5	12.20.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
TB-122010	12.20.10	1230	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.20.10 1630	[signature]	12/22/10 1055	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.		No. of coolers = 4
		00732992		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/22/2010
Group Number: 1226686
SDG: DE049
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP15-SA5B-QC-122110 Soil	6172103
EB07-SA5B-122110 Water	6172104
SL-006-SA5B-SB-4.0-5.0 Soil	6172105
SL-006-SA5B-SB-5.0-6.0 Soil	6172106
SL-046-SA5B-SB-4.0-5.0 Soil	6172107
SL-046-SA5B-SB-4.0-5.0MS Soil	6172108
SL-046-SA5B-SB-4.0-5.0MSD Soil	6172109
SL-046-SA5B-SB-4.0-5.0DUP Soil	6172110
SL-046-SA5B-SB-9.0-10.0 Soil	6172111
SL-047-SA5B-SB-4.0-5.0 Soil	6172112
SL-159-SA5B-SS-0.0-0.5 Soil	6172113
SL-183-SA5B-SS-0.0-0.5 Soil	6172114
SL-219-SA5B-SS-0.0-0.5 Soil	6172115
SL-225-SA5B-SS-0.0-0.5 Soil	6172116
SL-226-SA5B-SS-0.0-0.5 Soil	6172117
SL-227-SA5B-SS-0.0-0.5 Soil	6172118
TB-122110 Water	6172119

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP15-SA5B-QC-122110 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172103
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDP15 SDG#: DE049-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	17		7.7	9.2		1.05
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.05
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.05
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.05
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.05
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.05
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.05
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.05
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.05
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		1.05
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.05
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.05
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.05
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.05
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		1.05
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.05
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		1.05
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.05
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.05
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.05
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.05
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		1.05
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.05
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.05
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.05
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.05
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.05
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.05
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1.05
06192	Methylene Chloride	75-09-2	1.6	J	0.27	4.6		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.05

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP15-SA5B-QC-122110 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172103
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDP15 SDG#: DE049-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.05
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.05
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.05
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.05
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.05
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.05
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		1.05
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		1.05
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.24
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: **DUP15-SA5B-QC-122110 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172103
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SDP15 SDG#: DE049-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.96	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.2	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.4	J	0.73	1.8		1

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SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172103
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

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SDP15 SDG#: DE049-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	4.9		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.73	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.30	21.1		1
07914	Boron	7440-42-8	4.57	J	0.937	5.27		1
01650	Calcium	7440-70-2	4,610		6.46	21.1		1
01654	Iron	7439-89-6	21,000		4.96	21.1		1
01656	Lithium	7439-93-2	28.8		0.23	2.1		1
01657	Magnesium	7439-95-4	5,690		2.68	10.5		1
06958	Manganese	7439-96-5	259		0.0821	0.527		1
10145	Phosphorus	7723-14-0	429		0.590	10.5		1
01662	Potassium	7440-09-7	3,430		19.0	52.7		1
01667	Sodium	7440-23-5	124		39.3	105		1
07968	Strontium	7440-24-6	12.3		0.0653	0.527		1
06969	Tin	7440-31-5	2.29	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,240		0.408	1.07		1
10146	Zirconium	7440-67-7	0.885	U	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0697	J	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.37		0.0651	0.434		2
06126	Barium	7440-39-3	99.5		0.117	0.434		2
06127	Beryllium	7440-41-7	0.487		0.0174	0.108		2
06128	Cadmium	7440-43-9	0.100	J	0.0390	0.108		2

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LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDP15 SDG#: DE049-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	19.2	0.130	0.434		2
06132	Cobalt	7440-48-4	6.06	0.0217	0.108		2
06133	Copper	7440-50-8	8.14	0.0716	0.434		2
06135	Lead	7439-92-1	4.54	0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.336	0.0542	0.108		2
06139	Nickel	7440-02-0	11.7	0.108	0.434		2
06141	Selenium	7782-49-2	0.136 J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0210 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.341	0.0325	0.108		2
06148	Vanadium	7440-62-2	40.6	0.0239	0.108		2
06149	Zinc	7440-66-6	67.6	0.607	3.25		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	32.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	409	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.80	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP15-SA5B-QC-122110 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172103
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDP15 SDG#: DE049-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/22/2010 22:49	Laura M Krieger	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571BA	12/23/2010 13:48	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:31	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:59	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623397	12/22/2010 17:59	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623397	12/22/2010 17:30	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/18/2011 18:35	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011 20:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/06/2011 23:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:28	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:11	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 13:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 13:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 13:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2

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Sample Description: DUP15-SA5B-QC-122110 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172103
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDP15 SDG#: DE049-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 13:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 12:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 01:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 21:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 11:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182101C	12/27/2010 08:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039401C	12/27/2010 08:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB07-SA5B-122110 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172104
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-07 SDG#: DE049-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	2.83		0.521	1.04		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.95 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.							
	The surrogate n-nitrosodimethylamine-d6 was recovered above the advisory QC limits. Sufficient sample was unavailable to repeat the analysis.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	22	U	22	66		1
04678	Benzoic acid	65-85-0	7	U	7	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1

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Sample Description: **EB07-SA5B-122110 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172104
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-07 SDG#: DE049-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	33		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.12	J	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.46	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.11	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.28	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.027	J	0.010	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.12	J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate .15 ug/l butylbenzylphthalate .10 ug/l bis(2-ethylhexyl)phthalate .11 ug/l These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

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Sample Description: **EB07-SA5B-122110 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172104
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-07 SDG#: DE049-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	2.0		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.17	U	0.17	0.52		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.084	U	0.084	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	52	U	52	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.052		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052		1

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Analysis Report

Sample Description: **EB07-SA5B-122110 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172104
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-07 SDG#: DE049-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	17b Formaldehyde by 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.0099		1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.0099		1
00177	Beta BHC	319-85-7	0.0050	U	0.0050	0.0099		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.0099		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.50		1
00177	p,p-DDD	72-54-8	0.0050	U	0.0050	0.020		1
00177	p,p-DDE	72-55-9	0.0050	U	0.0050	0.020		1
00177	p,p-DDT	50-29-3	0.0050	U	0.0050	0.020		1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.0099		1
00177	Dieldrin	60-57-1	0.0053	U	0.0053	0.020		1
00177	Endosulfan I	959-98-8	0.0043	U	0.0043	0.0099		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0058	U	0.0058	0.020		1
00177	Endrin	72-20-8	0.0080	U	0.0080	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.099		1
00177	Endrin Ketone	53494-70-5	0.0050	U	0.0050	0.020		1
00177	Heptachlor	76-44-8	0.0026	U	0.0026	0.0099		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.0099		1
00177	Methoxychlor	72-43-5	0.030	U	0.030	0.099		1
00177	Mirex	2385-85-5	0.084	U	0.084	0.25		1
00177	Toxaphene	8001-35-2	0.99	U	0.99	3.0		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.099	U	0.099	0.50		1
10227	Aroclor 5442	12642-23-8	0.099	U	0.099	0.50		1
10227	Aroclor 5460	11126-42-4	0.099	U	0.099	0.50		1
10227	PCB-1016	12674-11-2	0.099	U	0.099	0.50		1
10227	PCB-1221	11104-28-2	0.099	U	0.099	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.099	U	0.099	0.50		1
10227	PCB-1248	12672-29-6	0.099	U	0.099	0.50		1
10227	PCB-1254	11097-69-1	0.099	U	0.099	0.50		1
10227	PCB-1260	11096-82-5	0.099	U	0.099	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1

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Sample Description: **EB07-SA5B-122110 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172104
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-07 SDG#: DE049-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1

Diethylene glycol was detected in the method blank at a concentration of 14 mg/l. The LCS recovery for diethylene glycol is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction. All results are reported from the reextraction. Diethylene glycol was detected in the original extraction at a concentration of 12 mg/l.

Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.083	U	0.083	0.26		1
10319	o-Terphenyl	84-15-1	0.083	U	0.083	0.26		1
10319	p-Terphenyl	92-94-4	0.083	U	0.083	0.26		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038	U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000060	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1

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Sample Description: EB07-SA5B-122110 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172104
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-07 SDG#: DE049-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	21b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	5.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	19b NDMA by 1625C	EPA 1625C	1	10362WAA026	01/06/2011 06:32	Timothy J Trees	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10356WAN026	01/15/2011 08:54	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10356WAM026	01/06/2011 23:18	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10356WAN026	12/23/2010 10:30	Olivia I Santiago	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10356WAM026	12/23/2010 10:30	Olivia I Santiago	1

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Sample Description: EB07-SA5B-122110 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172104
LLI Group # 1226686
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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EB-07 SDG#: DE049-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	10362WAA026	12/28/2010 12:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10362B94A	12/28/2010 21:13	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10362B94A	12/28/2010 21:13	Martha L Seidel	1
10131	20b Energetics by 8330A	SW-846 8330A	1	103610006A	12/28/2010 18:23	Michele D Hamilton	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	103560024A	12/23/2010 19:56	Michele D Hamilton	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103560021A	12/23/2010 18:56	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103570023A	01/14/2011 00:43	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103570024A	01/06/2011 16:31	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103570024A	12/26/2010 12:20	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103570023A	12/26/2010 12:20	Karen L Beyer	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103560021A	12/22/2010 20:30	Elaine F Stoltzfus	1
01013	Formaldehyde Extraction	SW-846 8315A	1	103560024A	12/23/2010 15:00	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	103610006A	12/27/2010 16:30	Wanda F Oswald	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103560030A	12/29/2010 16:18	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	103570018A	12/23/2010 17:45	Dustin A Underkoffler	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	110170024A	01/17/2011 18:33	Dustin A Underkoffler	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	103560029A	12/25/2010 04:54	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	103560030A	12/23/2010 10:30	Olivia I Santiago	1
10304	Terphenyls water prep	SW-846 3510C	1	103560029A	12/23/2010 10:30	Olivia I Santiago	1
01743	Aluminum	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
08014	Boron	SW-846 6010B	1	103651848001	01/05/2011 18:33	John P Hook	1
01750	Calcium	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
01754	Iron	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
01756	Lithium	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
07058	Manganese	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
01762	Potassium	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
01767	Sodium	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
08068	Strontium	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
07069	Tin	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
07070	Titanium	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103651848001	01/04/2011 18:00	John P Hook	1
06024	Antimony	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103656050001D	01/06/2011 08:23	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1

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Sample Description: EB07-SA5B-122110 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172104
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-07 SDG#: DE049-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06031	Chromium	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103656050001C	01/06/2011 08:23	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103656050001B	01/06/2011 08:23	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103656050001A	01/06/2011 08:23	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103575713005	12/28/2010 15:38	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103651848001	01/04/2011 08:43	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103656050001	01/04/2011 08:40	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103575713005	12/23/2010 15:50	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10356196903A	12/23/2010 11:21	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	10356196903A	12/23/2010 11:21	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10363658701A	12/29/2010 14:29	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10356196301A	12/22/2010 13:40	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	10365117102A	12/31/2010 19:33	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	10365117102A	12/31/2010 10:40	Carolyn M Mastropietro	1
00200	22b pH by 9040B	SW-846 9040B	1	10356020001B	12/22/2010 22:20	Luz M Groff	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172105
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00645 SDG#: DE049-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		1
06192	Methylene Chloride	75-09-2	0.88	J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

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00645 SDG#: DE049-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	36.2	U	36.2	72.4		2

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	1.8	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1

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GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.97	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	1.0	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81	U	81	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54	U	54	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	330	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	330	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	54	U	54	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	54	U	54	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	54	U	54	160	10000000	1
10132	HMX	2691-41-0	140	U	140	410	10000000	1
10132	Nitrobenzene	98-95-3	54	U	54	160	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,300	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	160	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	160	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	160	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,300	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	68	U	68	160	10000000	1
10132	Tetryl	479-45-8	83	U	83	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54	U	54	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54	U	54	160	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.5	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.43	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	3.1		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	10		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1

Methanol was detected in the method blank at a concentration of 230 ug/kg. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The methanol result for the original extraction is 290 ug/kg; the ethanol and isopropanol results for the original extraction are <200 ug/kg.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.5	U	6.5	14		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172105
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00645 SDG#: DE049-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	7.6	U	7.6	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
	Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request. Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.41	21.5		1
07914	Boron	7440-42-8	5.69		0.957	5.38		1
01650	Calcium	7440-70-2	2,650		6.59	21.5		1
01654	Iron	7439-89-6	18,200		5.06	21.5		1
01656	Lithium	7439-93-2	20.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,000		2.73	10.8		1
06958	Manganese	7439-96-5	279		0.0839	0.538		1
10145	Phosphorus	7723-14-0	352		0.602	10.8		1
01662	Potassium	7440-09-7	2,530		19.4	53.8		1
01667	Sodium	7440-23-5	265		40.1	108		1
07968	Strontium	7440-24-6	16.1		0.0667	0.538		1
06969	Tin	7440-31-5	2.41	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,030		0.409	1.08		1
10146	Zirconium	7440-67-7	0.903	U	0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0626	U	0.0626	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.28		0.0626	0.418		2
06126	Barium	7440-39-3	74.0		0.113	0.418		2
06127	Beryllium	7440-41-7	0.427		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0677	J	0.0376	0.104		2
06131	Chromium	7440-47-3	10.1		0.125	0.418		2
06132	Cobalt	7440-48-4	3.94		0.0209	0.104		2
06133	Copper	7440-50-8	4.77		0.0689	0.418		2
06135	Lead	7439-92-1	4.17		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.311		0.0522	0.104		2
06139	Nickel	7440-02-0	6.65		0.104	0.418		2
06141	Selenium	7782-49-2	0.125	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.0270	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.197		0.0313	0.104		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172105
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00645 SDG#: DE049-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	32.1		0.0234	0.106		2
06149	Zinc	7440-66-6	50.3		0.585	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	436		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-006-SA5C-SB-4.5.
The temperature of the sample bottle(s) upon receipt at the lab was 6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172105
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00645 SDG#: DE049-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/22/2010 23:11	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571BA	12/23/2010 14:08	Jason M Long	26.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:39	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:59	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623397	12/22/2010 17:59	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623397	12/22/2010 17:37	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 16:11	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/18/2011 19:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011 20:35	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 16:57	Marie D John	27.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:36	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103650008A	01/06/2011 00:17	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 18:29	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/06/2011 23:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103650008A	01/03/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 20:36	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 16:43	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 20:00	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 06:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1

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Sample Description: SL-006-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172105
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00645 SDG#: DE049-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:32	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:22	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 13:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 13:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 13:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 13:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 12:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 01:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201A	01/14/2011 01:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 21:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 11:51	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102203A	12/30/2010 19:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172105
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00645 SDG#: DE049-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102203A	12/30/2010 17:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Sample Description: SL-006-SA5B-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00656 SDG#: DE049-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	18		7.4	8.9		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.92
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.92
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.92
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.92
06192	2-Butanone	78-93-3	4.4	J	1.4	8.9		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.92
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.92
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.92
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.92
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.5		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.92
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.92
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.92
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.4		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.92
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.92
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.92
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.92
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.92
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.92
06192	Freon 133a	75-88-7	0.56	U	0.56	5.5		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.92
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.92
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.92
06192	Methylene Chloride	75-09-2	2.2	J	0.27	4.4		0.92
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.92

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Sample Description: SL-006-SA5B-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00656 SDG#: DE049-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		0.92
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.92
06192	Toluene	108-88-3	0.16	J	0.09	4.4		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.92
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.92
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.92
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.92
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.92
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		21.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	8,850		202	403		10
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	810	U	810	2,400		1

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Sample Description: SL-006-SA5B-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00656 SDG#: DE049-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.64	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1

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Sample Description: SL-006-SA5B-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00656 SDG#: DE049-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	1.2	J	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		25.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	91	U	91	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60	U	60	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	60	U	60	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	60	U	60	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	60	U	60	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	60	U	60	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1
10132	RDX	121-82-4	76	U	76	180	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	93	U	93	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	60	U	60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U	60	180	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	730	U	730	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.1		1
10225	PCB-1232	11141-16-5	0.63	U	0.63	2.1		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.5		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.5		1
10199	EFH (C21-C30)	n.a.	2.4		0.48	1.5		1
10199	EFH (C30 - C40)	n.a.	4.3		0.48	1.5		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	200	J	120	600		1

Methanol was detected in the method blank at a concentration of 230 ug/kg. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The methanol result for the original extraction is 320 ug/kg; the ethanol and isopropanol results for the original extraction are <200 ug/kg.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.3	U	7.3	15		1
08283	Ethylene glycol	107-21-1	9.7	U	9.7	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1

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Sample Description: SL-006-SA5B-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

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00656 SDG#: DE049-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request. Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,010		5.79	23.0		1
07914	Boron	7440-42-8	7.00		1.02	5.76		1
01650	Calcium	7440-70-2	30,500		7.06	23.0		1
01654	Iron	7439-89-6	12,800		5.42	23.0		1
01656	Lithium	7439-93-2	3.8		0.25	2.3		1
01657	Magnesium	7439-95-4	2,540		2.93	11.5		1
06958	Manganese	7439-96-5	133		0.0898	0.576		1
10145	Phosphorus	7723-14-0	803		0.645	11.5		1
01662	Potassium	7440-09-7	962		20.7	57.6		1
01667	Sodium	7440-23-5	564		43.0	115		1
07968	Strontium	7440-24-6	72.4		0.0714	0.576		1
06969	Tin	7440-31-5	1.62	J	1.15	11.5		1
06970	Titanium	7440-32-6	567		0.442	1.16		1
10146	Zirconium	7440-67-7	4.25	J	0.967	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.147	J	0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.36		0.0698	0.465		2
06126	Barium	7440-39-3	78.1		0.126	0.465		2
06127	Beryllium	7440-41-7	0.212		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.0419	U	0.0419	0.116		2
06131	Chromium	7440-47-3	14.0		0.140	0.465		2
06132	Cobalt	7440-48-4	3.23		0.0233	0.116		2
06133	Copper	7440-50-8	8.47		0.0767	0.465		2
06135	Lead	7439-92-1	2.28		0.0121	0.233		2
06138	Molybdenum	7439-98-7	1.16		0.0581	0.116		2
06139	Nickel	7440-02-0	5.90		0.116	0.465		2
06141	Selenium	7782-49-2	0.0610	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0140	U	0.0140	0.116		2
06145	Thallium	7440-28-0	0.0577	J	0.0349	0.116		2
06148	Vanadium	7440-62-2	31.0		0.0256	0.116		2
06149	Zinc	7440-66-6	23.6		0.651	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.120		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA5B-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00656 SDG#: DE049-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.97	U	0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.97	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.83	J	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	267		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	11.7		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	17.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-006-SA5C-SB-5.5.
The temperature of the sample bottle(s) upon receipt at the lab was 6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103621AA	12/28/2010 16:01	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571BA	12/23/2010 14:28	Jason M Long	21.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA5B-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00656 SDG#: DE049-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:46	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:59	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623397	12/22/2010 17:59	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623397	12/22/2010 17:43	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/20/2011 15:25	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/18/2011 19:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011 21:07	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 17:34	Marie D John	25.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:42	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103650008A	01/06/2011 02:24	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 18:39	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/07/2011 00:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103650008A	01/03/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 18:31	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 16:58	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 19:44	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 07:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1

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Sample Description: **SL-006-SA5B-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00656 SDG#: DE049-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:43	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:26	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 13:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 13:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 13:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 13:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 12:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201A	01/14/2011 02:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201A	01/14/2011 02:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 21:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 12:03	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102203A	12/30/2010 19:58	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201A	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102203A	12/30/2010 17:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5B-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172106
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00656 SDG#: DE049-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172107
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	21		7.3	8.7		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		1
06192	Methylene Chloride	75-09-2	2.1	J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

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Sample Description: SL-046-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172107
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.4
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-046-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172107
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	2.0		0.73	1.8		1

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Sample Description: SL-046-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172107
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.71	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.26	20.9		1
07914	Boron	7440-42-8	3.08	J	0.931	5.23		1
01650	Calcium	7440-70-2	3,860		6.41	20.9		1
01654	Iron	7439-89-6	19,900		4.93	20.9		1
01656	Lithium	7439-93-2	27.1		0.23	2.1		1
01657	Magnesium	7439-95-4	5,110		2.66	10.5		1
06958	Manganese	7439-96-5	260		0.0816	0.523		1
10145	Phosphorus	7723-14-0	393		0.586	10.5		1
01662	Potassium	7440-09-7	3,360		18.8	52.3		1
01667	Sodium	7440-23-5	121		39.0	105		1
07968	Strontium	7440-24-6	13.9		0.0649	0.523		1
06969	Tin	7440-31-5	2.23	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,250		0.409	1.08		1
10146	Zirconium	7440-67-7	1.15	J	0.879	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0861	J	0.0622	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.99		0.0622	0.415		2
06126	Barium	7440-39-3	79.8		0.112	0.415		2
06127	Beryllium	7440-41-7	0.510		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0841	J	0.0373	0.104		2

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Sample Description: SL-046-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172107
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	15.1	0.124	0.415		2
06132	Cobalt	7440-48-4	4.73	0.0207	0.104		2
06133	Copper	7440-50-8	7.35	0.0684	0.415		2
06135	Lead	7439-92-1	4.86	0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.390	0.0518	0.104		2
06139	Nickel	7440-02-0	9.75	0.104	0.415		2
06141	Selenium	7782-49-2	0.173 J	0.0415	0.415		2
06142	Silver	7440-22-4	0.0186 J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.296	0.0311	0.104		2
06148	Vanadium	7440-62-2	45.6	0.0237	0.108		2
06149	Zinc	7440-66-6	54.2	0.580	3.11		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067 J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	364	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.82	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-046-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-046-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172107
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/22/2010 23:56	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571BA	12/23/2010 14:48	Jason M Long	22.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:52	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623397	12/22/2010 17:59	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623397	12/22/2010 17:59	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623397	12/22/2010 17:49	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/18/2011 17:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011 18:26	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/07/2011 00:34	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 19:48	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 13:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 13:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 13:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2

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Sample Description: **SL-046-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172107
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 13:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 12:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 02:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205B	01/13/2011 23:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 12:16	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205B	01/10/2011 20:30	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172108
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	290	6.8	8.2		0.94
06192	Benzene	71-43-2	19	0.10	4.1		0.94
06192	Bromobenzene	108-86-1	15	0.13	4.1		0.94
06192	Bromochloromethane	74-97-5	20	0.34	4.1		0.94
06192	Bromodichloromethane	75-27-4	18	0.08	4.1		0.94
06192	Bromoform	75-25-2	17	0.41	4.1		0.94
06192	Bromomethane	74-83-9	15	0.25	4.1		0.94
06192	2-Butanone	78-93-3	200	1.2	8.2		0.94
06192	n-Butylbenzene	104-51-8	10	0.12	4.1		0.94
06192	sec-Butylbenzene	135-98-8	11	0.06	4.1		0.94
06192	tert-Butylbenzene	98-06-6	12	0.16	4.1		0.94
06192	Carbon Tetrachloride	56-23-5	19	0.14	4.1		0.94
06192	Chlorobenzene	108-90-7	16	0.11	4.1		0.94
06192	Chloroethane	75-00-3	16	0.13	4.1		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	20	0.31	4.1		0.94
06192	Chloroform	67-66-3	19	0.12	4.1		0.94
06192	Chloromethane	74-87-3	19	0.34	4.1		0.94
06192	2-Chlorotoluene	95-49-8	13	0.14	4.1		0.94
06192	4-Chlorotoluene	106-43-4	13	0.14	4.1		0.94
06192	Chlorotrifluoroethene	79-38-9	8.5	0.49	4.9		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.71	4.1		0.94
06192	Dibromochloromethane	124-48-1	18	0.20	4.1		0.94
06192	1,2-Dibromoethane	106-93-4	18	0.17	4.1		0.94
06192	Dibromomethane	74-95-3	19	0.24	4.1		0.94
06192	1,2-Dichlorobenzene	95-50-1	15	0.09	4.1		0.94
06192	1,3-Dichlorobenzene	541-73-1	13	0.12	4.1		0.94
06192	1,4-Dichlorobenzene	106-46-7	14	0.16	4.1		0.94
06192	Dichlorodifluoromethane	75-71-8	14	0.12	4.1		0.94
06192	1,1-Dichloroethane	75-34-3	20	0.10	4.1		0.94
06192	1,2-Dichloroethane	107-06-2	19	0.15	4.1		0.94
06192	1,1-Dichloroethene	75-35-4	20	0.40	4.1		0.94
06192	cis-1,2-Dichloroethene	156-59-2	19	0.19	4.1		0.94
06192	trans-1,2-Dichloroethene	156-60-5	19	0.12	4.1		0.94
06192	1,2-Dichloropropane	78-87-5	19	0.17	4.1		0.94
06192	1,3-Dichloropropane	142-28-9	18	0.08	4.1		0.94
06192	2,2-Dichloropropane	594-20-7	18	0.17	4.1		0.94
06192	1,1-Dichloropropene	563-58-6	18	0.13	4.1		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	16	0.16	4.1		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.17	4.1		0.94
06192	Ethylbenzene	100-41-4	14	0.06	4.1		0.94
06192	Freon 113	76-13-1	21	0.11	4.1		0.94
06192	Freon 133a	75-88-7	15	0.49	4.9		0.9
06192	Hexachlorobutadiene	87-68-3	9.4	0.14	4.1		0.94
06192	2-Hexanone	591-78-6	85	1.6	8.2		0.94
06192	Isopropylbenzene	98-82-8	12	0.06	4.1		0.94
06192	p-Isopropyltoluene	99-87-6	11	0.11	4.1		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.21	4.1		0.94
06192	4-Methyl-2-pentanone	108-10-1	72	0.40	8.2		0.94
06192	Methylene Chloride	75-09-2	19	0.24	4.1		0.94
06192	n-Propylbenzene	103-65-1	13	0.07	4.1		0.94

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Sample Description: SL-046-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172108
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	15	0.10	4.1		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	17	0.11	4.1		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	18	0.23	4.1		0.94
06192	Tetrachloroethene	127-18-4	15	0.20	4.1		0.94
06192	Toluene	108-88-3	16	0.08	4.1		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	13	0.14	4.1		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	12	0.18	4.1		0.94
06192	1,1,1-Trichloroethane	71-55-6	18	0.20	4.1		0.94
06192	1,1,2-Trichloroethane	79-00-5	18	0.28	4.1		0.94
06192	Trichloroethene	79-01-6	17	0.15	4.1		0.94
06192	Trichlorofluoromethane	75-69-4	18	0.30	4.1		0.94
06192	1,2,3-Trichloropropane	96-18-4	17	0.34	4.1		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	13	0.41	4.1		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	13	0.10	4.1		0.94
06192	Vinyl Chloride	75-01-4	17	0.20	4.1		0.94
06192	m+p-Xylene	179601-23-1	28	0.17	4.1		0.94
06192	o-Xylene	95-47-6	14	0.17	4.1		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120	5.2	16		24.08
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700	18	180		1
04688	Acenaphthylene	208-96-8	1,800	18	180		1
04688	Aniline	62-53-3	1,000	180	540		1
04688	Anthracene	120-12-7	1,800	18	180		1
04688	Benzidine	92-87-5	4,600	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,800	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,600	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,600	18	180		1
04688	Benzoic acid	65-85-0	700	180	540		1
04688	Benzyl alcohol	100-51-6	1,700	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,900	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,900	18	180		1
04688	Carbazole	86-74-8	1,800	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	36	180		1
04688	4-Chloroaniline	106-47-8	880	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400	18	180		1
04688	2-Chlorophenol	95-57-8	1,800	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	36	180		1
04688	Chrysene	218-01-9	1,800	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700	18	180		1
04688	Dibenzofuran	132-64-9	1,800	18	180		1

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Sample Description: SL-046-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172108
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,600		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800		36	180		1
04688	Dimethylphthalate	131-11-3	1,700		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	610		180	540		1
04688	2,4-Dinitrophenol	51-28-5	770	J	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		18	360		1
04688	Fluoranthene	206-44-0	1,800		18	180		1
04688	Fluorene	86-73-7	1,800		18	180		1
04688	Hexachlorobenzene	118-74-1	1,900		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	860		180	540		1
04688	Hexachloroethane	67-72-1	1,200		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		18	180		1
04688	Isophorone	78-59-1	1,700		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600		18	180		1
04688	2-Methylphenol	95-48-7	1,800		36	180		1
04688	4-Methylphenol	106-44-5	1,600		36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		18	180		1
04688	2-Nitroaniline	88-74-4	1,900		18	180		1
04688	3-Nitroaniline	99-09-2	1,700		36	180		1
04688	4-Nitroaniline	100-01-6	1,400		73	180		1
04688	Nitrobenzene	98-95-3	1,700		18	180		1
04688	2-Nitrophenol	88-75-5	1,700		18	180		1
04688	4-Nitrophenol	100-02-7	1,500		180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		18	180		1
04688	Pentachlorophenol	87-86-5	1,400		180	540		1
04688	Phenanthrene	85-01-8	1,800		18	180		1
04688	Phenol	108-95-2	1,700		18	180		1
04688	Pyrene	129-00-0	1,900		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		36	180		1

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Sample Description: SL-046-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172108
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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04645 SDG#: DE049-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.73	1.8		1
10138	Acenaphthylene	208-96-8	33		0.36	1.8		1
10138	Anthracene	120-12-7	34		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	34		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	38		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	37		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	38		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	43		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	39		6.5	20		1
10138	Di-n-butylphthalate	84-74-2	42		6.5	20		1
10138	Chrysene	218-01-9	33		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	39		0.73	1.8		1
10138	Diethylphthalate	84-66-2	42		6.5	20		1
10138	Dimethylphthalate	131-11-3	38		6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40		6.5	20		1
10138	Fluoranthene	206-44-0	35		0.73	1.8		1
10138	Fluorene	86-73-7	37		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	30		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	31		0.73	1.8		1
10138	Naphthalene	91-20-3	33		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	40		6.5	20		1
10138	Phenanthrene	85-01-8	33		0.73	1.8		1
10138	Pyrene	129-00-0	33		0.73	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	19		0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	9.4		0.36	1.8		1
10225	PCB-1260	11096-82-5	23		0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-046-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172108
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Project Name: SSFL Area IV Collocated Soil Sampling

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04645 SDG#: DE049-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700	5.21	20.7		1
07914	Boron	7440-42-8	196	0.922	5.18		1
01650	Calcium	7440-70-2	4,230	6.35	20.7		1
01654	Iron	7439-89-6	19,600	4.88	20.7		1
01656	Lithium	7439-93-2	125	0.23	2.1		1
01657	Magnesium	7439-95-4	5,310	2.63	10.4		1
06958	Manganese	7439-96-5	302	0.0808	0.518		1
10145	Phosphorus	7723-14-0	486	0.580	10.4		1
01662	Potassium	7440-09-7	4,210	18.7	51.8		1
01667	Sodium	7440-23-5	1,130	38.7	104		1
07968	Strontium	7440-24-6	114	0.0643	0.518		1
06969	Tin	7440-31-5	366	1.04	10.4		1
06970	Titanium	7440-32-6	1,570	0.409	1.08		1
10146	Zirconium	7440-67-7	98.3	0.871	5.18		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.652	0.0653	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.34	0.0653	0.435		2
06126	Barium	7440-39-3	116	0.118	0.435		2
06127	Beryllium	7440-41-7	1.49	0.0174	0.109		2
06128	Cadmium	7440-43-9	1.42	0.0392	0.109		2
06131	Chromium	7440-47-3	29.2	0.131	0.435		2
06132	Cobalt	7440-48-4	62.6	0.0218	0.109		2
06133	Copper	7440-50-8	19.8	0.0718	0.435		2
06135	Lead	7439-92-1	9.58	0.0113	0.218		2
06138	Molybdenum	7439-98-7	14.1	0.0544	0.109		2
06139	Nickel	7440-02-0	23.2	0.109	0.435		2
06141	Selenium	7782-49-2	2.59	0.0435	0.435		2
06142	Silver	7440-22-4	12.8	0.0131	0.109		2
06145	Thallium	7440-28-0	0.820	0.0326	0.109		2
06148	Vanadium	7440-62-2	58.8	0.0230	0.105		2
06149	Zinc	7440-66-6	81.9	0.609	3.26		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.178	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.4	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	563	9.8	32.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	43.9	1.1	5.4		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-046-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172108
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-046-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/23/2010	00:19	Laura M Krieger	0.94
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/23/2010	01:04	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571BA	12/23/2010	15:08	Jason M Long	24.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010	17:57	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623397	12/22/2010	17:59	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623397	12/22/2010	17:59	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623397	12/22/2010	17:54	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/18/2011	17:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011	18:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010	07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010	06:00	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/07/2011	00:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010	06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010	20:00	John P Hook	1

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Sample Description: **SL-046-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172108
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:00	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:00	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 13:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 13:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 13:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 13:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 03:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205B	01/14/2011 00:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 12:28	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205B	01/10/2011 20:30	Joseph E McKenzie	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172109
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	290	7.2	8.6		0.99
06192	Benzene	71-43-2	20	0.11	4.3		0.99
06192	Bromobenzene	108-86-1	16	0.14	4.3		0.99
06192	Bromochloromethane	74-97-5	20	0.35	4.3		0.99
06192	Bromodichloromethane	75-27-4	19	0.09	4.3		0.99
06192	Bromoform	75-25-2	18	0.43	4.3		0.99
06192	Bromomethane	74-83-9	15	0.27	4.3		0.99
06192	2-Butanone	78-93-3	200	1.3	8.6		0.99
06192	n-Butylbenzene	104-51-8	11	0.13	4.3		0.99
06192	sec-Butylbenzene	135-98-8	12	0.06	4.3		0.99
06192	tert-Butylbenzene	98-06-6	13	0.17	4.3		0.99
06192	Carbon Tetrachloride	56-23-5	20	0.15	4.3		0.99
06192	Chlorobenzene	108-90-7	17	0.12	4.3		0.99
06192	Chloroethane	75-00-3	16	0.14	4.3		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	20	0.32	4.3		0.99
06192	Chloroform	67-66-3	21	0.13	4.3		0.99
06192	Chloromethane	74-87-3	19	0.35	4.3		0.99
06192	2-Chlorotoluene	95-49-8	14	0.15	4.3		0.99
06192	4-Chlorotoluene	106-43-4	14	0.15	4.3		0.99
06192	Chlorotrifluoroethene	79-38-9	8.4	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.75	4.3		0.99
06192	Dibromochloromethane	124-48-1	19	0.21	4.3		0.99
06192	1,2-Dibromoethane	106-93-4	19	0.18	4.3		0.99
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.99
06192	1,2-Dichlorobenzene	95-50-1	16	0.1	4.3		0.99
06192	1,3-Dichlorobenzene	541-73-1	15	0.13	4.3		0.99
06192	1,4-Dichlorobenzene	106-46-7	15	0.17	4.3		0.99
06192	Dichlorodifluoromethane	75-71-8	14	0.13	4.3		0.99
06192	1,1-Dichloroethane	75-34-3	21	0.11	4.3		0.99
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.3		0.99
06192	1,1-Dichloroethene	75-35-4	21	0.42	4.3		0.99
06192	cis-1,2-Dichloroethene	156-59-2	20	0.20	4.3		0.99
06192	trans-1,2-Dichloroethene	156-60-5	20	0.13	4.3		0.99
06192	1,2-Dichloropropane	78-87-5	20	0.18	4.3		0.99
06192	1,3-Dichloropropane	142-28-9	20	0.09	4.3		0.99
06192	2,2-Dichloropropane	594-20-7	20	0.18	4.3		0.99
06192	1,1-Dichloropropene	563-58-6	19	0.14	4.3		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.17	4.3		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.18	4.3		0.99
06192	Ethylbenzene	100-41-4	15	0.06	4.3		0.99
06192	Freon 113	76-13-1	22	0.12	4.3		0.99
06192	Freon 133a	75-88-7	16	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	10	0.15	4.3		0.99
06192	2-Hexanone	591-78-6	89	1.7	8.6		0.99
06192	Isopropylbenzene	98-82-8	13	0.06	4.3		0.99
06192	p-Isopropyltoluene	99-87-6	12	0.12	4.3		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.23	4.3		0.99
06192	4-Methyl-2-pentanone	108-10-1	75	0.42	8.6		0.99
06192	Methylene Chloride	75-09-2	21	0.26	4.3		0.99
06192	n-Propylbenzene	103-65-1	14	0.08	4.3		0.99

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Sample Description: SL-046-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172109
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	16		0.11	4.3		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	18		0.12	4.3		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	19		0.25	4.3		0.99
06192	Tetrachloroethene	127-18-4	16		0.21	4.3		0.99
06192	Toluene	108-88-3	18		0.09	4.3		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.15	4.3		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	13		0.19	4.3		0.99
06192	1,1,1-Trichloroethane	71-55-6	19		0.21	4.3		0.99
06192	1,1,2-Trichloroethane	79-00-5	19		0.29	4.3		0.99
06192	Trichloroethene	79-01-6	18		0.16	4.3		0.99
06192	Trichlorofluoromethane	75-69-4	18		0.31	4.3		0.99
06192	1,2,3-Trichloropropane	96-18-4	19		0.35	4.3		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	14		0.43	4.3		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	14		0.11	4.3		0.99
06192	Vinyl Chloride	75-01-4	17		0.21	4.3		0.99
06192	m+p-Xylene	179601-23-1	30		0.18	4.3		0.99
06192	o-Xylene	95-47-6	15		0.18	4.3		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		5.1	15		23.5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	860		18	180		1
04688	Acenaphthylene	208-96-8	900		18	180		1
04688	Aniline	62-53-3	450	J	180	540		1
04688	Anthracene	120-12-7	900		18	180		1
04688	Benzidine	92-87-5	2,400	J	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	930		18	180		1
04688	Benzo(a)pyrene	50-32-8	820		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	860		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	850		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	800		18	180		1
04688	Benzoic acid	65-85-0	380	J	180	540		1
04688	Benzyl alcohol	100-51-6	820		180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	900		18	180		1
04688	Butylbenzylphthalate	85-68-7	980		18	180		1
04688	Di-n-butylphthalate	84-74-2	920		18	180		1
04688	Carbazole	86-74-8	920		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	830		36	180		1
04688	4-Chloroaniline	106-47-8	540		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	830		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	770		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	770		18	180		1
04688	2-Chloronaphthalene	91-58-7	850		18	180		1
04688	2-Chlorophenol	95-57-8	830		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	890		36	180		1
04688	Chrysene	218-01-9	920		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	840		18	180		1
04688	Dibenzofuran	132-64-9	890		18	180		1

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Sample Description: SL-046-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172109
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	730		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	710		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	700		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	830		110	360		1
04688	2,4-Dichlorophenol	120-83-2	860		18	180		1
04688	Diethylphthalate	84-66-2	900		18	180		1
04688	2,4-Dimethylphenol	105-67-9	830		36	180		1
04688	3,5-Dimethylphenol	108-68-9	900		36	180		1
04688	Dimethylphthalate	131-11-3	900		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	310	J	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	850		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	860		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	910		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	950		18	360		1
04688	Fluoranthene	206-44-0	910		18	180		1
04688	Fluorene	86-73-7	880		18	180		1
04688	Hexachlorobenzene	118-74-1	930		18	180		1
04688	Hexachlorobutadiene	87-68-3	820		73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	370	J	180	540		1
04688	Hexachloroethane	67-72-1	560		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	830		18	180		1
04688	Isophorone	78-59-1	830		18	180		1
04688	1-Methylnaphthalene	90-12-0	840		18	180		1
04688	2-Methylnaphthalene	91-57-6	770		18	180		1
04688	2-Methylphenol	95-48-7	840		36	180		1
04688	4-Methylphenol	106-44-5	780		36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	800		18	180		1
04688	2-Nitroaniline	88-74-4	940		18	180		1
04688	3-Nitroaniline	99-09-2	870		36	180		1
04688	4-Nitroaniline	100-01-6	680		73	180		1
04688	Nitrobenzene	98-95-3	820		18	180		1
04688	2-Nitrophenol	88-75-5	800		18	180		1
04688	4-Nitrophenol	100-02-7	790		180	540		1
04688	N-Nitrosodimethylamine	62-75-9	780		36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	790		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	940		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	870		18	180		1
04688	Pentachlorophenol	87-86-5	600		180	540		1
04688	Phenanthrene	85-01-8	890		18	180		1
04688	Phenol	108-95-2	810		18	180		1
04688	Pyrene	129-00-0	960		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	830		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	920		36	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172109
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	950		36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31		0.73	1.8		1
10138	Acenaphthylene	208-96-8	32		0.36	1.8		1
10138	Anthracene	120-12-7	33		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	34		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	30		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	32		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	32		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	35		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	36		6.5	20		1
10138	Di-n-butylphthalate	84-74-2	40		6.5	20		1
10138	Chrysene	218-01-9	33		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	33		0.73	1.8		1
10138	Diethylphthalate	84-66-2	36		6.5	20		1
10138	Dimethylphthalate	131-11-3	34		6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41		6.5	20		1
10138	Fluoranthene	206-44-0	33		0.73	1.8		1
10138	Fluorene	86-73-7	32		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	32		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	30		0.73	1.8		1
10138	Naphthalene	91-20-3	32		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	34		6.5	20		1
10138	Phenanthrene	85-01-8	33		0.73	1.8		1
10138	Pyrene	129-00-0	32		0.73	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	26		0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	28		0.36	1.8		1
10225	PCB-1260	11096-82-5	27		0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-046-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172109
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900	5.42	21.5		1
07914	Boron	7440-42-8	207	0.959	5.39		1
01650	Calcium	7440-70-2	5,350	6.60	21.5		1
01654	Iron	7439-89-6	20,400	5.07	21.5		1
01656	Lithium	7439-93-2	130	0.24	2.2		1
01657	Magnesium	7439-95-4	5,620	2.74	10.8		1
06958	Manganese	7439-96-5	314	0.0840	0.539		1
10145	Phosphorus	7723-14-0	513	0.603	10.8		1
01662	Potassium	7440-09-7	4,390	19.4	53.9		1
01667	Sodium	7440-23-5	1,180	40.2	108		1
07968	Strontium	7440-24-6	118	0.0668	0.539		1
06969	Tin	7440-31-5	383	1.08	10.8		1
06970	Titanium	7440-32-6	1,570	0.405	1.07		1
10146	Zirconium	7440-67-7	103	0.905	5.39		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.655	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.66	0.0646	0.431		2
06126	Barium	7440-39-3	107	0.116	0.431		2
06127	Beryllium	7440-41-7	1.39	0.0172	0.108		2
06128	Cadmium	7440-43-9	1.42	0.0388	0.108		2
06131	Chromium	7440-47-3	28.4	0.129	0.431		2
06132	Cobalt	7440-48-4	61.5	0.0215	0.108		2
06133	Copper	7440-50-8	18.7	0.0711	0.431		2
06135	Lead	7439-92-1	8.64	0.0112	0.215		2
06138	Molybdenum	7439-98-7	13.6	0.0539	0.108		2
06139	Nickel	7440-02-0	22.3	0.108	0.431		2
06141	Selenium	7782-49-2	2.45	0.0431	0.431		2
06142	Silver	7440-22-4	12.8	0.0129	0.108		2
06145	Thallium	7440-28-0	0.803	0.0323	0.108		2
06148	Vanadium	7440-62-2	63.3	0.0237	0.108		2
06149	Zinc	7440-66-6	80.4	0.603	3.23		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.173	0.0030	0.104		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1

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Sample Description: **SL-046-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172109
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-046-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/23/2010 00:42	Laura M Krieger	0.99
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/23/2010 01:26	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571BA	12/23/2010 15:27	Jason M Long	23.5
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 18:30	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623397	12/22/2010 18:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623397	12/22/2010 18:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623397	12/22/2010 18:28	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/18/2011 18:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011 19:30	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/07/2011 01:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:04	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 13:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172109
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 13:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 13:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 13:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172110
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		5.21	20.7		1
07914	Boron	7440-42-8	3.71	J	0.922	5.18		1
01650	Calcium	7440-70-2	3,610		6.35	20.7		1
01654	Iron	7439-89-6	18,700		4.88	20.7		1
01656	Lithium	7439-93-2	24.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,760		2.63	10.4		1
06958	Manganese	7439-96-5	243		0.0808	0.518		1
10145	Phosphorus	7723-14-0	369		0.580	10.4		1
01662	Potassium	7440-09-7	3,020		18.7	51.8		1
01667	Sodium	7440-23-5	114		38.7	104		1
07968	Strontium	7440-24-6	13.7		0.0643	0.518		1
06969	Tin	7440-31-5	2.08	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,220		0.413	1.09		1
10146	Zirconium	7440-67-7	1.32	J	0.871	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0861	J	0.0634	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.47		0.0634	0.423		2
06126	Barium	7440-39-3	97.4		0.114	0.423		2
06127	Beryllium	7440-41-7	0.557		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.138		0.0380	0.106		2
06131	Chromium	7440-47-3	18.3		0.127	0.423		2
06132	Cobalt	7440-48-4	5.87		0.0211	0.106		2
06133	Copper	7440-50-8	8.56		0.0697	0.423		2
06135	Lead	7439-92-1	5.40		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.393		0.0528	0.106		2
06139	Nickel	7440-02-0	11.9		0.106	0.423		2
06141	Selenium	7782-49-2	0.183	J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0259	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.313		0.0317	0.106		2
06148	Vanadium	7440-62-2	37.2		0.0237	0.108		2
06149	Zinc	7440-66-6	64.6		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0227	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-046-SA5B-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172110
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	373	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.66	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3		n.a.	8.1	0.50	0.50		1
11626	28a Moisture Content by 160.3		n.a.	8.1	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 19:56	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 13:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172110
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04645 SDG#: DE049-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 13:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 13:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 13:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 03:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205B	01/13/2011 23:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 14:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205B	01/10/2011 20:30	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172111
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04691 SDG#: DE049-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-046-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172111
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04691 SDG#: DE049-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
fluoranthene

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-046-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172111
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04691 SDG#: DE049-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.58	22.2		1
07914	Boron	7440-42-8	6.06		0.988	5.55		1
01650	Calcium	7440-70-2	2,000		6.81	22.2		1
01654	Iron	7439-89-6	15,700		5.23	22.2		1
01656	Lithium	7439-93-2	16.1		0.24	2.2		1
01657	Magnesium	7439-95-4	3,090		2.82	11.1		1
06958	Manganese	7439-96-5	325		0.0866	0.555		1
10145	Phosphorus	7723-14-0	351		0.622	11.1		1
01662	Potassium	7440-09-7	3,010		20.0	55.5		1
01667	Sodium	7440-23-5	102	J	41.4	111		1
07968	Strontium	7440-24-6	18.9		0.0688	0.555		1
06969	Tin	7440-31-5	1.95	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,080		0.426	1.12		1
10146	Zirconium	7440-67-7	2.06	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.60		0.0660	0.440		2
06126	Barium	7440-39-3	120		0.119	0.440		2
06127	Beryllium	7440-41-7	0.632		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.256		0.0396	0.110		2
06131	Chromium	7440-47-3	18.0		0.132	0.440		2
06132	Cobalt	7440-48-4	5.88		0.0220	0.110		2
06133	Copper	7440-50-8	9.77		0.0726	0.440		2
06135	Lead	7439-92-1	8.40		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.793		0.0550	0.110		2
06139	Nickel	7440-02-0	12.5		0.110	0.440		2
06141	Selenium	7782-49-2	0.167	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0387	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.278		0.0330	0.110		2
06148	Vanadium	7440-62-2	39.5		0.0240	0.109		2
06149	Zinc	7440-66-6	66.2		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-046-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172111
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04691 SDG#: DE049-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	412	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.55	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/20/2011	10:45	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011	21:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010	07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010	06:00	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/07/2011	01:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010	06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010	20:30	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172111
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04691 SDG#: DE049-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:47	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:30	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 14:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 14:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 14:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 14:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 03:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 22:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243202A	01/21/2011 14:29	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172112
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04745 SDG#: DE049-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.84
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.84
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.7		0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.84
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.84
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.7		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.84
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5		0.84
06192	Methylene Chloride	75-09-2	2.0	J	0.22	3.7		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.84

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172112
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04745 SDG#: DE049-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.7		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		25.93
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172112
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04745 SDG#: DE049-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	1.4	J	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172112
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04745 SDG#: DE049-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.4	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.59	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.56	22.1		1
07914	Boron	7440-42-8	5.83		0.985	5.53		1
01650	Calcium	7440-70-2	2,500		6.78	22.1		1
01654	Iron	7439-89-6	19,000		5.21	22.1		1
01656	Lithium	7439-93-2	23.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,350		2.81	11.1		1
06958	Manganese	7439-96-5	277		0.0863	0.553		1
10145	Phosphorus	7723-14-0	362		0.619	11.1		1
01662	Potassium	7440-09-7	2,730		19.9	55.3		1
01667	Sodium	7440-23-5	115		41.3	111		1
07968	Strontium	7440-24-6	13.2		0.0686	0.553		1
06969	Tin	7440-31-5	2.37	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,130		0.412	1.08		1
10146	Zirconium	7440-67-7	0.929	U	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0638	U	0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0638	0.425		2
06126	Barium	7440-39-3	116		0.115	0.425		2
06127	Beryllium	7440-41-7	0.778		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.141		0.0383	0.106		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-047-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172112
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04745 SDG#: DE049-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	18.4	0.128	0.425		2
06132	Cobalt	7440-48-4	6.84	0.0213	0.106		2
06133	Copper	7440-50-8	9.18	0.0702	0.425		2
06135	Lead	7439-92-1	7.40	0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.649	0.0532	0.106		2
06139	Nickel	7440-02-0	11.7	0.106	0.425		2
06141	Selenium	7782-49-2	0.187 J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0405 J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.324	0.0319	0.106		2
06148	Vanadium	7440-62-2	38.7	0.0239	0.108		2
06149	Zinc	7440-66-6	76.8	0.596	3.19		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0043 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	453	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.43	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-047-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172112
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04745 SDG#: DE049-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-047-SA5C-SB-4.5.
The temperature of the sample bottle(s) upon receipt at the lab was
6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality
Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/23/2010 01:49	Laura M Krieger	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571BA	12/23/2010 15:46	Jason M Long	25.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 18:35	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623397	12/22/2010 18:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623397	12/22/2010 18:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623397	12/22/2010 18:33	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/20/2011 11:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011 22:12	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/07/2011 01:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:51	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:34	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 14:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-047-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172112
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

04745 SDG#: DE049-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 14:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 14:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 14:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 03:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 22:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 14:47	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-159-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172113
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE049-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-159-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172113
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE049-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.73	J	0.39	1.9		1
10138	Anthracene	120-12-7	1.3	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.9	J	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	6.3		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.2		0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	7.5		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	16		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.1	J	0.78	1.9		1
10138	Naphthalene	91-20-3	2.6		0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	8.1		0.78	1.9		1
10138	Pyrene	129-00-0	10		0.78	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
fluoranthene

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172113
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE049-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compound was affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.26	U	0.26	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The TCX surrogate is outside the QC limits in the method blank and LCS. The LCS recoveries for alpha-BHC and gamma-BHC are also outside the QC limits. A reextraction was performed outside the sample hold time. The QC recoveries from the reextraction are within the limits. Similar results were obtained in both extractions. The original in hold data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172113
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE049-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.8		0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.58	22.2		1
07914	Boron	7440-42-8	6.16		0.988	5.55		1
01650	Calcium	7440-70-2	2,230		6.80	22.2		1
01654	Iron	7439-89-6	20,000		5.23	22.2		1
01656	Lithium	7439-93-2	19.9		0.24	2.2		1
01657	Magnesium	7439-95-4	3,970		2.82	11.1		1
06958	Manganese	7439-96-5	358		0.0866	0.555		1
10145	Phosphorus	7723-14-0	327		0.622	11.1		1
01662	Potassium	7440-09-7	3,810		20.0	55.5		1
01667	Sodium	7440-23-5	74.8	J	41.4	111		1
07968	Strontium	7440-24-6	19.8		0.0688	0.555		1
06969	Tin	7440-31-5	2.03	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,220		0.434	1.14		1
10146	Zirconium	7440-67-7	1.43	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0779	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.0		0.0672	0.448		2
06126	Barium	7440-39-3	134		0.121	0.448		2
06127	Beryllium	7440-41-7	0.692		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.317		0.0403	0.112		2
06131	Chromium	7440-47-3	22.4		0.134	0.448		2
06132	Cobalt	7440-48-4	7.05		0.0224	0.112		2
06133	Copper	7440-50-8	12.2		0.0740	0.448		2
06135	Lead	7439-92-1	9.06		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.773		0.0560	0.112		2
06139	Nickel	7440-02-0	16.2		0.112	0.448		2
06141	Selenium	7782-49-2	0.185	J	0.0448	0.448		2
06142	Silver	7440-22-4	2.44		0.0134	0.112		2
06145	Thallium	7440-28-0	0.348		0.0336	0.112		2
06148	Vanadium	7440-62-2	45.5		0.0249	0.113		2
06149	Zinc	7440-66-6	63.9		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0229	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.93	1.2		1

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Sample Description: **SL-159-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172113
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL159 SDG#: DE049-08

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.39	J	0.23	1.2		1
	ASTM D1498			**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	478		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
	SW-846 9045C modified			**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	14.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/20/2011	11:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011	22:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010	07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010	06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040013A	01/07/2011	12:48	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103640030A	01/26/2011	08:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/12/2011	00:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103640030A	12/31/2010	07:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010	06:30	Joseph S Feister	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040013A	01/04/2011 23:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:55	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:38	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 14:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 14:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 14:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 10:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 14:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 04:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205A	01/13/2011 23:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 15:00	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205A	01/10/2011 20:30	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-159-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172113
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE049-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.86
06192	Methylene Chloride	75-09-2	0.54	J	0.24	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.01
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	99.0	U	99.0	198		5
	Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzo(a)anthracene	56-55-3	22	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenanthrene	85-01-8	24	J	20	200		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	39	J	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.4		0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	5.3		0.40	2.0		1
10138	Benzo(a)pyrene	50-32-8	21		0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	29		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	9.0		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	21		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	2.3		0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1

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Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	7.1	21		1
10138	Fluoranthene	206-44-0	45		0.79	2.0		1
10138	Fluorene	86-73-7	1.6	J	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.9		0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.88	J	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.1	J	0.79	2.0		1
10138	Naphthalene	91-20-3	1.8	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	89	U	89	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	59	U	59	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	360	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	360	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	59	U	59	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	59	U	59	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	59	U	59	180	10000000	1
10132	HMX	2691-41-0	150	U	150	450	10000000	1
10132	Nitrobenzene	98-95-3	59	U	59	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,600	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	RDX	121-82-4	74	U	74	180	10000000	1
10132	Tetryl	479-45-8	91	U	91	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	59	U	59	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	59	U	59	180	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	0.74	U	0.74	2.0		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4		1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0		1
10401	MCPA	94-74-6	400		90	300		1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300		1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20		1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.95	U	0.95	4.0		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.27	U	0.27	0.40		1
01363	p,p-DDT	50-29-3	0.70	U	0.70	0.70		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.10	U	0.10	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.53	U	0.53	0.53		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1

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Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The TCX surrogate is outside the QC limits in the method blank and LCS. The LCS recoveries for alpha-BHC and gamma-BHC are also outside the QC limits. A reextraction was performed outside the sample hold time. The QC recoveries from the reextraction are within the limits. Similar results were obtained in both extractions. The original in hold data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	3.8	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	3.2		0.39	2.0		1
10225	PCB-1260	11096-82-5	2.2		0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.95	U	0.95	2.9		2
10199	EFH (C15-C20)	n.a.	2.1	J	0.95	2.9		2
10199	EFH (C21-C30)	n.a.	28		0.95	2.9		2
10199	EFH (C30 - C40)	n.a.	87		0.95	2.9		2
10199	EFH (C8-C11)	n.a.	0.95	U	0.95	2.9		2
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
	Methanol was detected in the method blank at a concentration of 230 ug/kg. Due to a laboratory error the final volume was increased by a factor of two. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The results for the original extraction are <200 ug/kg.							
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	7.1	U	7.1	15		1

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Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	Due to a laboratory error the sample was not extracted per the client protocol. The samples were reextracted outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results confirm. The reextracted data is reported as per client request. Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.97	23.8		1
07914	Boron	7440-42-8	1.06	U	1.06	5.94		1
01650	Calcium	7440-70-2	3,360		7.28	23.8		1
01654	Iron	7439-89-6	38,200		11.2	47.5		2
01656	Lithium	7439-93-2	19.9		0.26	2.4		1
01657	Magnesium	7439-95-4	4,400		3.02	11.9		1
06958	Manganese	7439-96-5	321		0.0926	0.594		1
10145	Phosphorus	7723-14-0	502		0.665	11.9		1
01662	Potassium	7440-09-7	3,220		21.4	59.4		1
01667	Sodium	7440-23-5	91.7	J	44.3	119		1
07968	Strontium	7440-24-6	26.2		0.0736	0.594		1
06969	Tin	7440-31-5	2.51	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,190		0.451	1.19		1
10146	Zirconium	7440-67-7	0.998	U	0.998	5.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0706	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.47		0.0706	0.470		2
06126	Barium	7440-39-3	137		0.127	0.470		2
06127	Beryllium	7440-41-7	0.862		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.230		0.0423	0.118		2
06131	Chromium	7440-47-3	24.2		0.141	0.470		2
06132	Cobalt	7440-48-4	6.99		0.0235	0.118		2
06133	Copper	7440-50-8	12.7		0.0776	0.470		2
06135	Lead	7439-92-1	12.9		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.855		0.0588	0.118		2
06139	Nickel	7440-02-0	15.9		0.118	0.470		2
06141	Selenium	7782-49-2	0.194	J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0498	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.341		0.0353	0.118		2

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Sample Description: **SL-183-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium		7440-62-2	46.9		0.0256	0.116		2
06149	Zinc		7440-66-6	75.5		0.658	3.53		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0361	J	0.0034	0.118		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.0		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate		14797-55-8	2.6		0.95	1.8		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.7	U	10.7	35.6		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.36	J	0.24	1.2		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.21	U	0.21	0.59		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	468		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.56		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	15.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL183 SDG#: DE049-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103562BA	12/23/2010 02:11	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103571BA	12/23/2010 16:06	Jason M Long	21.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 18:42	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035623397	12/22/2010 18:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035623397	12/22/2010 18:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035623397	12/22/2010 18:39	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 16:44	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/20/2011 12:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011 23:16	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34A	12/23/2010 18:10	Marie D John	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035623397	12/22/2010 18:38	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103650008A	01/06/2011 03:07	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 18:58	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040013A	01/07/2011 13:16	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103640030A	01/26/2011 08:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/12/2011 01:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103640030A	12/31/2010 07:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040013A	01/04/2011 23:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103650008A	01/03/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	01/05/2011 13:23	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 17:27	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103640020A	12/31/2010 20:32	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 10:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1

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Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL183 SDG#: DE049-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103640020A	12/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	3	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
01654	Iron	SW-846 6010B	2	103635708004	12/31/2010 17:21	John P Hook	2
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 13:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:42	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 14:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 14:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 14:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 11:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 14:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 04:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11012012201B	01/14/2011 04:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205B	01/14/2011 00:55	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-183-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172114
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL183 SDG#: DE049-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 15:12	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10364102203A	12/30/2010 19:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205B	01/10/2011 20:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10364102203A	12/30/2010 17:00	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-219-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172115
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL219 SDG#: DE049-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthylene	208-96-8	41	J	21	210		1
04688	Aniline	62-53-3	210	U	210	640		1
04688	Anthracene	120-12-7	140	J	21	210		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,300		1
04688	Benzo(a)anthracene	56-55-3	880		21	210		1
04688	Benzo(a)pyrene	50-32-8	2,500		21	210		1
04688	Benzo(b)fluoranthene	205-99-2	3,300		21	210		1
04688	Benzo(g,h,i)perylene	191-24-2	5,600		110	1,100		5
04688	Benzo(k)fluoranthene	207-08-9	1,000		21	210		1
04688	Benzoic acid	65-85-0	210	U	210	640		1
04688	Benzyl alcohol	100-51-6	210	U	210	640		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	29	J	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	43	U	43	210		1
04688	4-Chloroaniline	106-47-8	86	U	86	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	43	U	43	210		1
04688	Chrysene	218-01-9	1,700		21	210		1
04688	Dibenz(a,h)anthracene	53-70-3	510		21	210		1
04688	Dibenzofuran	132-64-9	130	J	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	430		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	43	U	43	210		1
04688	3,5-Dimethylphenol	108-68-9	43	U	43	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	640		1
04688	2,4-Dinitrophenol	51-28-5	860	U	860	2,600		1
04688	2,4-Dinitrotoluene	121-14-2	43	U	43	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	310	J	21	430		1
04688	Fluoranthene	206-44-0	1,200		21	210		1
04688	Hexachlorobenzene	118-74-1	170	J	21	210		1
04688	Hexachlorobutadiene	87-68-3	86	U	86	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	640		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	5,100		110	1,100		5
04688	Isophorone	78-59-1	21	U	21	210		1
04688	1-Methylnaphthalene	90-12-0	240		21	210		1
04688	2-Methylnaphthalene	91-57-6	290		21	210		1
04688	2-Methylphenol	95-48-7	43	U	43	210		1
04688	4-Methylphenol	106-44-5	43	U	43	210		1

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Sample Description: SL-219-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172115
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL219 SDG#: DE049-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	190	J	21	210		1
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	43	U	43	210		1
04688	4-Nitroaniline	100-01-6	86	U	86	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	640		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	640		1
04688	Phenanthrene	85-01-8	720		21	210		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	Pyrene	129-00-0	1,600		21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	43	U	43	210		1
04688	2,4,6-Trichlorophenol	88-06-2	43	U	43	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	12		0.86	2.1		1
10138	Butylbenzylphthalate	85-68-7	16	J	7.7	23		1
10138	Di-n-butylphthalate	84-74-2	28		7.7	23		1
10138	Diethylphthalate	84-66-2	7.7	U	7.7	23		1
10138	Dimethylphthalate	131-11-3	7.7	U	7.7	23		1
10138	Fluorene	86-73-7	8.8		0.86	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.86	U	0.86	2.1		1
10138	Di-n-octylphthalate	117-84-0	270		7.7	23		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.6		1
10401	Dalapon	75-99-0	5.7	U	5.7	12		1
10401	2,4-DB	94-82-6	24		0.80	2.2		1
10401	Dicamba	1918-00-9	0.52	U	0.52	1.5		1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.1		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2		1
10401	MCPA	94-74-6	1,200		98	320		1
10401	MCPP (Mecoprop)	93-65-2	97	U	97	320		1
10401	2,4,5-T	93-76-5	0.61		0.11	0.22		1
10401	2,4,5-TP	93-72-1	0.74		0.097	0.22		1

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Sample Description: **SL-219-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172115
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL219 SDG#: DE049-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.85	U	0.85	2.1		10
01363	Alpha BHC	319-84-6	0.44	U	0.44	2.1		10
01363	Beta BHC	319-85-7	0.77	U	0.77	2.1		10
01363	Gamma BHC - Lindane	58-89-9	0.44	U	0.44	2.1		10
01363	Chlordane	57-74-9	26	U	26	44		10
01363	p,p-DDD	72-54-8	0.85	U	0.85	4.4		10
01363	p,p-DDE	72-55-9	3.3	U	3.3	4.4		10
01363	p,p-DDT	50-29-3	4.5	U	4.5	4.5		10
01363	Delta BHC	319-86-8	0.46	U	0.46	2.1		10
01363	Dieldrin	60-57-1	0.85	U	0.85	4.4		10
01363	Endosulfan I	959-98-8	0.57	U	0.57	2.1		10
01363	Endosulfan II	33213-65-9	6.6	U	6.6	6.6		10
01363	Endosulfan Sulfate	1031-07-8	13	U	13	13		10
01363	Endrin	72-20-8	0.85	U	0.85	4.4		10
01363	Endrin Aldehyde	7421-93-4	4.0	U	4.0	4.4		10
01363	Endrin Ketone	53494-70-5	0.85	U	0.85	4.4		10
01363	Heptachlor	76-44-8	0.77	U	0.77	2.1		10
01363	Heptachlor Epoxide	1024-57-3	2.4	U	2.4	2.4		10
01363	Methoxychlor	72-43-5	20	U	20	21		10
01363	Mirex	2385-85-5	0.85	U	0.85	4.4		10
01363	Toxaphene	8001-35-2	28	U	28	85		10
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The TCX surrogate is outside the QC limits in the method blank and LCS. The LCS recoveries for alpha-BHC and gamma-BHC are also outside the QC limits. A reextraction was performed outside the sample hold time. The QC recoveries from the reextraction are within the limits. Similar results were obtained in both extractions. The original in hold data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.4	U	6.4	21		5
10225	Aroclor 5442	12642-23-8	6.4	U	6.4	21		5
10225	Aroclor 5460	11126-42-4	25		6.4	21		5
10225	PCB-1016	12674-11-2	2.1	U	2.1	11		5
10225	PCB-1221	11104-28-2	3.2	U	3.2	11		5
10225	PCB-1232	11141-16-5	3.4	U	3.4	11		5
10225	PCB-1242	53469-21-9	3.2	U	3.2	11		5
10225	PCB-1248	12672-29-6	2.1	U	2.1	11		5
10225	PCB-1254	11097-69-1	37		2.1	11		5
10225	PCB-1260	11096-82-5	45		2.1	11		5
10225	PCB-1262	37324-23-5	2.1	U	2.1	11		5

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Sample Description: **SL-219-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172115
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL219 SDG#: DE049-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	2.1	U	2.1	11		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.29	25.0		1
07914	Boron	7440-42-8	9.31		1.11	6.26		1
01650	Calcium	7440-70-2	3,600		7.67	25.0		1
01654	Iron	7439-89-6	20,800		5.89	25.0		1
01656	Lithium	7439-93-2	24.6		0.28	2.5		1
01657	Magnesium	7439-95-4	4,300		3.18	12.5		1
06958	Manganese	7439-96-5	171		0.0976	0.626		1
10145	Phosphorus	7723-14-0	473		0.701	12.5		1
01662	Potassium	7440-09-7	2,630		22.5	62.6		1
01667	Sodium	7440-23-5	623		46.7	125		1
07968	Strontium	7440-24-6	34.5		0.0776	0.626		1
06969	Tin	7440-31-5	2.97	J	1.25	12.5		1
06970	Titanium	7440-32-6	1,150		0.485	1.28		1
10146	Zirconium	7440-67-7	5.46	J	1.05	6.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.632		0.0736	0.245		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.55		0.0736	0.491		2
06126	Barium	7440-39-3	122		0.133	0.491		2
06127	Beryllium	7440-41-7	0.726		0.0196	0.123		2
06128	Cadmium	7440-43-9	1.55		0.0442	0.123		2
06131	Chromium	7440-47-3	37.8		0.147	0.491		2
06132	Cobalt	7440-48-4	8.03		0.0245	0.123		2
06133	Copper	7440-50-8	44.8		0.0810	0.491		2
06135	Lead	7439-92-1	60.2		0.0128	0.245		2
06138	Molybdenum	7439-98-7	1.30		0.0614	0.123		2
06139	Nickel	7440-02-0	48.8		0.123	0.491		2
06141	Selenium	7782-49-2	0.385	J	0.0491	0.491		2
06142	Silver	7440-22-4	3.35		0.0147	0.123		2
06145	Thallium	7440-28-0	0.430		0.0368	0.123		2
06148	Vanadium	7440-62-2	40.5		0.0275	0.125		2
06149	Zinc	7440-66-6	726		3.44	18.4		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.228		0.0036	0.127		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	J	1.0	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.6	U	11.6	38.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-219-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172115
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL219 SDG#: DE049-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.26	1.3		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	495		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	22.4		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/20/2011	12:26	Brian K Graham	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/21/2011	07:12	Ryan P Byrne	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/12/2011	23:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010	07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010	06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040013A	01/07/2011	13:44	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103640030A	01/26/2011	09:21	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/12/2011	01:33	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103640030A	12/31/2010	07:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010	06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040013A	01/04/2011	23:30	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-219-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172115
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL219 SDG#: DE049-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 14:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:46	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 14:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 14:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 14:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 14:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 11:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/10/2011 09:30	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 04:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205B	01/14/2011 01:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 15:37	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205B	01/10/2011 20:30	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1

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Sample Description: **SL-219-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172115
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL219 SDG#: DE049-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-225-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172116
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL225 SDG#: DE049-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	220	U	220	670		1
04688	Benzidine	92-87-5	1,600	U	1,600	4,400		1
04688	Benzo(k)fluoranthene	207-08-9	150	J	22	220		1
04688	Benzoic acid	65-85-0	220	U	220	670		1
04688	Benzyl alcohol	100-51-6	220	U	220	670		1
04688	4-Bromophenyl-phenylether	101-55-3	22	U	22	220		1
04688	Carbazole	86-74-8	22	U	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	44	U	44	220		1
04688	4-Chloroaniline	106-47-8	89	U	89	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	22	U	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	22	U	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	22	U	22	220		1
04688	2-Chloronaphthalene	91-58-7	22	U	22	220		1
04688	2-Chlorophenol	95-57-8	22	U	22	220		1
04688	4-Chlorophenyl-phenylether	7005-72-3	44	U	44	220		1
04688	Dibenz(a,h)anthracene	53-70-3	170	J	22	220		1
04688	Dibenzofuran	132-64-9	31	J	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	22	U	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	22	U	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	22	U	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	440		1
04688	2,4-Dichlorophenol	120-83-2	22	U	22	220		1
04688	2,4-Dimethylphenol	105-67-9	44	U	44	220		1
04688	3,5-Dimethylphenol	108-68-9	44	U	44	220		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	220	U	220	670		1
04688	2,4-Dinitrophenol	51-28-5	890	U	890	2,700		1
04688	2,4-Dinitrotoluene	121-14-2	44	U	44	220		1
04688	2,6-Dinitrotoluene	606-20-2	22	U	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	22	U	22	220		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	85	J	22	440		1
04688	Hexachlorobenzene	118-74-1	28	J	22	220		1
04688	Hexachlorobutadiene	87-68-3	89	U	89	220		1
04688	Hexachlorocyclopentadiene	77-47-4	220	U	220	670		1
04688	Hexachloroethane	67-72-1	22	U	22	220		1
04688	Isophorone	78-59-1	22	U	22	220		1
04688	2-Methylphenol	95-48-7	44	U	44	220		1
04688	4-Methylphenol	106-44-5	44	U	44	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	22	U	22	220		1
04688	3-Nitroaniline	99-09-2	44	U	44	220		1
04688	4-Nitroaniline	100-01-6	89	U	89	220		1
04688	Nitrobenzene	98-95-3	22	U	22	220		1
04688	2-Nitrophenol	88-75-5	22	U	22	220		1
04688	4-Nitrophenol	100-02-7	220	U	220	670		1
04688	N-Nitroso-di-n-propylamine	621-64-7	22	U	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	22	U	22	220		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-225-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172116
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL225 SDG#: DE049-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	220	U	220	670		1
04688	Phenol	108-95-2	22	U	22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	22	U	22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	44	U	44	220		1
04688	2,4,6-Trichlorophenol	88-06-2	44	U	44	220		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.7	J	0.89	2.2		1
10138	Acenaphthylene	208-96-8	20		0.44	2.2		1
10138	Anthracene	120-12-7	74		0.44	2.2		1
10138	Benzo(a)anthracene	56-55-3	180		0.89	2.2		1
10138	Benzo(a)pyrene	50-32-8	580		8.9	22		10
10138	Benzo(b)fluoranthene	205-99-2	1,100		8.9	22		10
10138	Benzo(g,h,i)perylene	191-24-2	3,800		8.9	22		10
10138	Butylbenzylphthalate	85-68-7	14	J	8.0	24		1
10138	Di-n-butylphthalate	84-74-2	8.0	U	8.0	24		1
10138	Chrysene	218-01-9	280		0.44	2.2		1
10138	Diethylphthalate	84-66-2	8.0	U	8.0	24		1
10138	Dimethylphthalate	131-11-3	8.0	U	8.0	24		1
10138	Fluoranthene	206-44-0	430		8.9	22		10
10138	Fluorene	86-73-7	4.5		0.89	2.2		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3,200		8.9	22		10
10138	1-Methylnaphthalene	90-12-0	69		0.89	2.2		1
10138	2-Methylnaphthalene	91-57-6	82		0.89	2.2		1
10138	Naphthalene	91-20-3	80		0.89	2.2		1
10138	N-Nitrosodimethylamine	62-75-9	0.89	U	0.89	2.2		1
10138	Di-n-octylphthalate	117-84-0	40		8.0	24		1
10138	Phenanthrene	85-01-8	460		8.9	22		10
10138	Pyrene	129-00-0	270		0.89	2.2		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.0	U	2.0	4.8		1
10401	Dalapon	75-99-0	5.9	U	5.9	12		1
10401	2,4-DB	94-82-6	17		0.83	2.3		1
10401	Dicamba	1918-00-9	0.53	U	0.53	1.6		1
10401	Dinoseb	88-85-7	1.1	U	1.1	3.2		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	U	1.1	2.3		1

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Sample Description: SL-225-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172116
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL225 SDG#: DE049-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	1,100	U	1,100	1,100		1
10401	MCPP (Mecoprop)	93-65-2	100	U	100	330		1
10401	2,4,5-T	93-76-5	0.44	U	0.44	0.44		1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.23		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA, 2,4-D, and 2,4,5-T.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.88	U	0.88	2.2		10
01363	Alpha BHC	319-84-6	0.45	U	0.45	2.2		10
01363	Beta BHC	319-85-7	0.80	U	0.80	2.2		10
01363	Gamma BHC - Lindane	58-89-9	0.45	U	0.45	2.2		10
01363	Chlordane	57-74-9	11	U	11	45		10
01363	p,p-DDD	72-54-8	0.88	U	0.88	4.5		10
01363	p,p-DDE	72-55-9	2.1	U	2.1	4.5		10
01363	p,p-DDT	50-29-3	2.8	U	2.8	4.5		10
01363	Delta BHC	319-86-8	0.48	U	0.48	2.2		10
01363	Dieldrin	60-57-1	0.88	U	0.88	4.5		10
01363	Endosulfan I	959-98-8	0.59	U	0.59	2.2		10
01363	Endosulfan II	33213-65-9	0.88	U	0.88	4.5		10
01363	Endosulfan Sulfate	1031-07-8	0.88	U	0.88	4.5		10
01363	Endrin	72-20-8	0.88	U	0.88	4.5		10
01363	Endrin Aldehyde	7421-93-4	0.88	U	0.88	4.5		10
01363	Endrin Ketone	53494-70-5	0.88	U	0.88	4.5		10
01363	Heptachlor	76-44-8	0.80	U	0.80	2.2		10
01363	Heptachlor Epoxide	1024-57-3	1.6	U	1.6	2.2		10
01363	Methoxychlor	72-43-5	4.5	U	4.5	22		10
01363	Mirex	2385-85-5	0.88	U	0.88	4.5		10
01363	Toxaphene	8001-35-2	29	U	29	88		10

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The TCX surrogate is outside the QC limits in the method blank and LCS. The LCS recoveries for alpha-BHC and gamma-BHC are also outside the QC limits. A reextraction was performed outside the sample hold time. The QC recoveries from the reextraction are within the limits. Similar results were obtained in both extractions. The original in hold data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-225-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172116
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL225 SDG#: DE049-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	13	U	13	44		10
10225	Aroclor 5442	12642-23-8	13	U	13	44		10
10225	Aroclor 5460	11126-42-4	13	U	13	44		10
10225	PCB-1016	12674-11-2	4.4	U	4.4	23		10
10225	PCB-1221	11104-28-2	6.7	U	6.7	23		10
10225	PCB-1232	11141-16-5	6.9	U	6.9	23		10
10225	PCB-1242	53469-21-9	6.7	U	6.7	23		10
10225	PCB-1248	12672-29-6	4.4	U	4.4	23		10
10225	PCB-1254	11097-69-1	68		4.4	23		10
10225	PCB-1260	11096-82-5	21	J	4.4	23		10
10225	PCB-1262	37324-23-5	4.4	U	4.4	23		10
10225	PCB-1268	11100-14-4	4.4	U	4.4	23		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		6.57	26.1		1
07914	Boron	7440-42-8	7.44		1.16	6.53		1
01650	Calcium	7440-70-2	3,170		8.00	26.1		1
01654	Iron	7439-89-6	18,400		6.15	26.1		1
01656	Lithium	7439-93-2	21.5		0.29	2.6		1
01657	Magnesium	7439-95-4	3,740		3.32	13.1		1
06958	Manganese	7439-96-5	199		0.102	0.653		1
10145	Phosphorus	7723-14-0	425		0.731	13.1		1
01662	Potassium	7440-09-7	2,570		23.5	65.3		1
01667	Sodium	7440-23-5	152		48.7	131		1
07968	Strontium	7440-24-6	30.4		0.0809	0.653		1
06969	Tin	7440-31-5	2.71	J	1.31	13.1		1
06970	Titanium	7440-32-6	997		0.496	1.31		1
10146	Zirconium	7440-67-7	1.60	J	1.10	6.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.300		0.0791	0.264		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.37		0.0791	0.527		2
06126	Barium	7440-39-3	107		0.142	0.527		2
06127	Beryllium	7440-41-7	0.644		0.0211	0.132		2
06128	Cadmium	7440-43-9	2.08		0.0475	0.132		2
06131	Chromium	7440-47-3	35.3		0.158	0.527		2
06132	Cobalt	7440-48-4	9.13		0.0264	0.132		2
06133	Copper	7440-50-8	43.5		0.0870	0.527		2
06135	Lead	7439-92-1	52.2		0.0137	0.264		2
06138	Molybdenum	7439-98-7	0.821		0.0659	0.132		2
06139	Nickel	7440-02-0	36.9		0.132	0.527		2
06141	Selenium	7782-49-2	0.518	J	0.0527	0.527		2
06142	Silver	7440-22-4	2.88		0.0158	0.132		2
06145	Thallium	7440-28-0	0.373		0.0396	0.132		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-225-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172116
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL225 SDG#: DE049-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	43.4		0.0293	0.133		2
06149	Zinc	7440-66-6	929		7.38	39.6		20
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.311		0.0037	0.129		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		1.1	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	12.0	U	12.0	39.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.27	1.3		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	488		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	24.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/20/2011	12:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/13/2011	00:21	Gregory J Drahovsky	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-225-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172116
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL225 SDG#: DE049-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/13/2011 09:08	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040013A	01/07/2011 14:12	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103640030A	01/26/2011 09:36	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/12/2011 01:51	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103640030A	12/31/2010 07:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040013A	01/04/2011 23:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 14:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:50	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 14:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 14:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 14:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 14:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 11:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/10/2011 09:32	Choon Y Tian	20
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-225-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172116
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL225 SDG#: DE049-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 04:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205B	01/14/2011 01:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 15:49	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205B	01/10/2011 20:30	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102A	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402A	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-226-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172117
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL226 SDG#: DE049-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	620		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzo(a)pyrene	50-32-8	30	J	21	210		1
04688	Benzo(g,h,i)perylene	191-24-2	170	J	21	210		1
04688	Benzoic acid	65-85-0	210	U	210	620		1
04688	Benzyl alcohol	100-51-6	210	U	210	620		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210		1
04688	4-Chloroaniline	106-47-8	82	U	82	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620		1
04688	2,4-Dinitrophenol	51-28-5	820	U	820	2,500		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	Fluoranthene	206-44-0	26	J	21	210		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	82	U	82	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	140	J	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	41	U	41	210		1
04688	4-Methylphenol	106-44-5	41	U	41	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	41	U	41	210		1
04688	4-Nitroaniline	100-01-6	82	U	82	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	620		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1

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Sample Description: SL-226-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172117
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL226 SDG#: DE049-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	620		1
04688	Phenanthrene	85-01-8	21	J	21	210		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	Pyrene	129-00-0	23	J	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.1		1
10138	Acenaphthylene	208-96-8	1.1	J	0.41	2.1		1
10138	Anthracene	120-12-7	2.0	J	0.41	2.1		1
10138	Benzo(a)anthracene	56-55-3	6.9		0.82	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	46		0.82	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.82	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	14		0.41	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	4.5		0.82	2.1		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	7.4	22		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.1		1
10138	1-Methylnaphthalene	90-12-0	1.9	J	0.82	2.1		1
10138	2-Methylnaphthalene	91-57-6	2.3		0.82	2.1		1
10138	Naphthalene	91-20-3	3.1		0.82	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.5	U	1.5	4.4		1
10401	Dalapon	75-99-0	5.4	U	5.4	11		1
10401	2,4-DB	94-82-6	0.76	U	0.76	2.1		1
10401	Dicamba	1918-00-9	0.49	U	0.49	1.5		1
10401	Dinoseb	88-85-7	0.99	U	0.99	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.99	U	0.99	2.1		1
10401	MCPA	94-74-6	94	U	94	310		1
10401	MCPP (Mecoprop)	93-65-2	92	U	92	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.092	U	0.092	0.21		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-226-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172117
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL226 SDG#: DE049-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.081	U	0.081	0.20		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.20		1
01363	Beta BHC	319-85-7	0.074	U	0.074	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.20		1
01363	Chlordane	57-74-9	4.9	U	4.9	4.9		1
01363	p,p-DDD	72-54-8	0.083	U	0.083	0.42		1
01363	p,p-DDE	72-55-9	0.16	U	0.16	0.42		1
01363	p,p-DDT	50-29-3	0.25	U	0.25	0.42		1
01363	Delta BHC	319-86-8	0.069	J	0.044	0.20		1
01363	Dieldrin	60-57-1	0.19	U	0.19	0.42		1
01363	Endosulfan I	959-98-8	0.054	U	0.054	0.20		1
01363	Endosulfan II	33213-65-9	0.20	U	0.20	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	0.42		1
01363	Endrin	72-20-8	0.081	U	0.081	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.081	U	0.081	0.42		1
01363	Endrin Ketone	53494-70-5	0.081	U	0.081	0.42		1
01363	Heptachlor	76-44-8	0.086	U	0.086	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.20		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.0		1
01363	Mirex	2385-85-5	0.081	U	0.081	0.42		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The TCX surrogate is outside the QC limits in the method blank and LCS. The LCS recoveries for alpha-BHC and gamma-BHC are also outside the QC limits. A reextraction was performed outside the sample hold time. The QC recoveries from the reextraction are within the limits. Similar results were obtained in both extractions. The original in hold data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.62	U	0.62	2.1		1
10225	PCB-1232	11141-16-5	0.64	U	0.64	2.1		1
10225	PCB-1242	53469-21-9	0.62	U	0.62	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	7.7		0.41	2.1		1
10225	PCB-1260	11096-82-5	1.2	J	0.41	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-226-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172117
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL226 SDG#: DE049-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		6.07	24.1		1
07914	Boron	7440-42-8	8.01		1.07	6.04		1
01650	Calcium	7440-70-2	4,580		7.40	24.1		1
01654	Iron	7439-89-6	24,100		5.69	24.1		1
01656	Lithium	7439-93-2	29.3		0.27	2.4		1
01657	Magnesium	7439-95-4	5,280		3.07	12.1		1
06958	Manganese	7439-96-5	417		0.0942	0.604		1
10145	Phosphorus	7723-14-0	455		0.676	12.1		1
01662	Potassium	7440-09-7	3,540		21.7	60.4		1
01667	Sodium	7440-23-5	127		45.0	121		1
07968	Strontium	7440-24-6	33.1		0.0749	0.604		1
06969	Tin	7440-31-5	2.62	J	1.21	12.1		1
06970	Titanium	7440-32-6	1,280		0.450	1.18		1
10146	Zirconium	7440-67-7	1.27	J	1.01	6.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.147	J	0.0732	0.244		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.14		0.0732	0.488		2
06126	Barium	7440-39-3	119		0.132	0.488		2
06127	Beryllium	7440-41-7	0.616		0.0195	0.122		2
06128	Cadmium	7440-43-9	0.958		0.0439	0.122		2
06131	Chromium	7440-47-3	23.2		0.146	0.488		2
06132	Cobalt	7440-48-4	6.75		0.0244	0.122		2
06133	Copper	7440-50-8	17.3		0.0805	0.488		2
06135	Lead	7439-92-1	15.6		0.0127	0.244		2
06138	Molybdenum	7439-98-7	0.853		0.0610	0.122		2
06139	Nickel	7440-02-0	18.1		0.122	0.488		2
06141	Selenium	7782-49-2	0.249	J	0.0488	0.488		2
06142	Silver	7440-22-4	1.69		0.0146	0.122		2
06145	Thallium	7440-28-0	0.303		0.0366	0.122		2
06148	Vanadium	7440-62-2	47.4		0.0268	0.122		2
06149	Zinc	7440-66-6	218		1.71	9.15		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0805	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.99	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1	U	11.1	36.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.25	1.2		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-226-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172117
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL226 SDG#: DE049-12

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	425	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.79	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	18.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/20/2011 13:16	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/13/2011 00:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040013A	01/07/2011 14:39	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103640030A	02/04/2011 11:00	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/12/2011 02:10	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103640030A	12/31/2010 07:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040013A	01/04/2011 23:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-226-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172117
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL226 SDG#: DE049-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 14:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:54	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 14:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 14:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 14:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 14:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 11:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/10/2011 09:34	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 05:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205B	01/14/2011 02:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 16:02	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205B	01/10/2011 20:30	Joseph E McKenzie	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102B	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402B	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-227-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172118
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL227 SDG#: DE049-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzo(g,h,i)perylene	191-24-2	27	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	810	U	810	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-227-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172118
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL227 SDG#: DE049-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.42	J	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	2.2		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	2.1		0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.6		0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.0	J	0.81	2.0		1
10138	Naphthalene	91-20-3	2.8		0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	1.7	J	0.81	2.0		1
10138	Pyrene	129-00-0	1.8	J	0.81	2.0		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
fluoranthene

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.5	U	1.5	4.4		1
10401	Dalapon	75-99-0	5.3	U	5.3	11		1
10401	2,4-DB	94-82-6	5.1	U	5.1	5.1		1
10401	Dicamba	1918-00-9	0.49	U	0.49	1.5		1
10401	Dinoseb	88-85-7	0.97	U	0.97	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.97	U	0.97	2.1		1
10401	MCPA	94-74-6	590		92	300		1
10401	MCPP (Mecoprop)	93-65-2	230	J	91	300		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.38		0.091	0.21		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172118
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL227 SDG#: DE049-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	MCPP was detected in the method blank. MCPP was not detected in the reextracted blank. The hold time had expired prior to the reextraction so all results are reported from the original extract. The results between extractions were slightly dissimilar because of the homogeneity of the sample.							
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.080	U	0.080	0.20		1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20		1
01363	Beta BHC	319-85-7	0.92		0.073	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20		1
01363	Chlordane	57-74-9	4.6	U	4.6	4.6		1
01363	p,p-DDD	72-54-8	0.080	U	0.080	0.41		1
01363	p,p-DDE	72-55-9	1.5	U	1.5	1.5		1
01363	p,p-DDT	50-29-3	2.5	U	2.5	2.5		1
01363	Delta BHC	319-86-8	0.044	U	0.044	0.20		1
01363	Dieldrin	60-57-1	0.080	U	0.080	0.41		1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20		1
01363	Endosulfan II	33213-65-9	0.17	U	0.17	0.41		1
01363	Endosulfan Sulfate	1031-07-8	0.14	U	0.14	0.41		1
01363	Endrin	72-20-8	0.080	U	0.080	0.41		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.41		1
01363	Endrin Ketone	53494-70-5	0.080	U	0.080	0.41		1
01363	Heptachlor	76-44-8	0.073	U	0.073	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.095	U	0.095	0.20		1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.41		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.0		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The TCX surrogate is outside the QC limits in the method blank and LCS. The LCS recoveries for alpha-BHC and gamma-BHC are also outside the QC limits. A reextraction was performed outside the sample hold time. The QC recoveries from the reextraction are within the limits. Similar results were obtained in both extractions. The original in hold data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	4.0	J	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.61	U	0.61	2.1		1

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SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172118
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL227 SDG#: DE049-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.63	U	0.63	2.1		1
10225	PCB-1242	53469-21-9	0.61	U	0.61	2.1		1
10225	PCB-1248	12672-29-6	1.6	J	0.40	2.1		1
10225	PCB-1254	11097-69-1	5.0		0.40	2.1		1
10225	PCB-1260	11096-82-5	2.4		0.40	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.04	24.0		1
07914	Boron	7440-42-8	8.02		1.07	6.01		1
01650	Calcium	7440-70-2	4,700		7.37	24.0		1
01654	Iron	7439-89-6	19,600		5.66	24.0		1
01656	Lithium	7439-93-2	24.8		0.26	2.4		1
01657	Magnesium	7439-95-4	4,140		3.05	12.0		1
06958	Manganese	7439-96-5	346		0.0937	0.601		1
10145	Phosphorus	7723-14-0	320		0.673	12.0		1
01662	Potassium	7440-09-7	2,870		21.6	60.1		1
01667	Sodium	7440-23-5	173		44.8	120		1
07968	Strontium	7440-24-6	28.4		0.0745	0.601		1
06969	Tin	7440-31-5	2.04	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,140		0.443	1.17		1
10146	Zirconium	7440-67-7	1.41	J	1.01	6.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0750	J	0.0721	0.240		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.94		0.0721	0.481		2
06126	Barium	7440-39-3	128		0.130	0.481		2
06127	Beryllium	7440-41-7	0.669		0.0192	0.120		2
06128	Cadmium	7440-43-9	0.465		0.0433	0.120		2
06131	Chromium	7440-47-3	25.3		0.144	0.481		2
06132	Cobalt	7440-48-4	6.63		0.0240	0.120		2
06133	Copper	7440-50-8	12.5		0.0793	0.481		2
06135	Lead	7439-92-1	11.8		0.0125	0.240		2
06138	Molybdenum	7439-98-7	0.576		0.0601	0.120		2
06139	Nickel	7440-02-0	17.0		0.120	0.481		2
06141	Selenium	7782-49-2	0.174	J	0.0481	0.481		2
06142	Silver	7440-22-4	4.93		0.0144	0.120		2
06145	Thallium	7440-28-0	0.318		0.0360	0.120		2
06148	Vanadium	7440-62-2	53.2		0.0264	0.120		2
06149	Zinc	7440-66-6	81.8		0.673	3.60		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0146	J	0.0033	0.116		1

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Sample Description: **SL-227-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172118
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL227 SDG#: DE049-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	433		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	17.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLI026	01/20/2011	13:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10363SLL026	01/13/2011	10:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10363SLL026	12/30/2010	07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLI026	12/30/2010	06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040013A	01/07/2011	15:07	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103640030A	01/26/2011	10:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640027A	01/12/2011	02:28	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103640030A	12/31/2010	07:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640027A	12/31/2010	06:30	Joseph S Feister	1

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SL227 SDG#: DE049-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040013A	01/04/2011 23:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
07914	Boron	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
01654	Iron	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
06969	Tin	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	110065708001	01/07/2011 14:14	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103635708004	12/30/2010 20:57	John P Hook	1
06124	Antimony	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103631026002D	01/05/2011 14:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103631026002C	01/05/2011 14:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103631026002B	01/05/2011 14:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026002A	01/10/2011 11:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103631026002A	01/05/2011 14:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711002	01/02/2011 13:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103635708004	12/29/2010 10:00	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110065708001	01/06/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103631026002	12/29/2010 10:31	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110071026002	01/09/2011 20:52	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711002	12/30/2010 10:49	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11012012201B	01/14/2011 05:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11010010205B	01/14/2011 02:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243202A	01/21/2011 16:14	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11012012201B	01/12/2011 20:08	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11010010205B	01/10/2011 20:30	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-227-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172118
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL227 SDG#: DE049-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102B	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402B	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11018243202A	01/18/2011 20:10	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: TB-122110 Water
SSFL Area IV Collocated Soil Sampling
TB-122110

LLI Sample # WW 6172119
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB221 SDG#: DE049-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-122110 Water
SSFL Area IV Collocated Soil Sampling
TB-122110

LLI Sample # WW 6172119
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB221 SDG#: DE049-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103572AA	12/23/2010 16:55	Sara E Johnson	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103562AA	12/22/2010 21:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103562AA	12/22/2010 21:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103572AA	12/23/2010 16:55	Sara E Johnson	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10362B94A	12/28/2010 21:39	Martha L Seidel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-122110 Water**
SSFL Area IV Collocated Soil Sampling
TB-122110

LLI Sample # WW 6172119
LLI Group # 1226686
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/04/2011 15:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB221 SDG#: DE049-14TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	10362B94A	12/28/2010 21:39	Martha L Seidel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103562BA	Sample number(s): 6172103,6172105,6172107-6172109,6172112,6172114									
Acetone	6.7	U	6.7	8.0	ug/kg	182		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	90		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	98		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	93		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	75		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	138		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	96		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	95		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	91		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	80		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	108		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	86		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	92		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	55		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	95		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	94		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	90		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	91		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	100		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	89		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	102		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	80		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	91		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	95		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	95		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	80		61-134		
Methylene Chloride	0.55	J	0.24	4.0	ug/kg	95		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	98		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	91		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	89		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	97		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	94		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	95		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	87		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	93		80-120		
Batch number: B103621AA	Sample number(s): 6172106									
Acetone	6.7	U	6.7	8.0	ug/kg	156	156	32-209	0	30
Benzene	0.10	U	0.10	4.0	ug/kg	102	100	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	89	89	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	101	100	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95	94	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	92	90	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	71	72	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	126	122	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	91	90	72-120	0	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	91	90	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	90	87	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100	95	69-122	5	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	94	94	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	77	76	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	103	99	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	100	98	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	86	83	54-132	3	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	90	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	91	92	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	122	111	22-131	10	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	89	84	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	94	92	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97	93	80-120	4	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	98	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	91	92	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88	88	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	89	91	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71	66	20-120	7	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	98	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	98	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	97	93	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101	97	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99	99	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96	93	80-120	3	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98	95	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	99	95	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	90	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	86	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	95	92	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	97	90	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	94	90	78-120	5	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	87	85	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	81	79	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	91	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	91	90	75-120	1	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	94	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	78	73	61-134	7	30
Methylene Chloride	0.39	J	0.24	4.0	ug/kg	96	94	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	95	93	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	92	93	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95	93	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	93	89	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	94	93	77-120	1	30
Toluene	0.17	J	0.08	4.0	ug/kg	97	94	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	84	88	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	81	86	68-120	6	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100	97	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96	93	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	96	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	83	79	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	93	89	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	91	91	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	91	92	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	83	80	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96	95	80-120	1	30
o-Xylene	0.18	J	0.17	4.0	ug/kg	90	90	80-120	0	30
Batch number: E103562AA	Sample number(s): 6172119									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	104	60-132	3	30
Batch number: E103571BA	Sample number(s): 6172103,6172105-6172109,6172112,6172114									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	101	98	70-130	3	30
Batch number: Y103572AA	Sample number(s): 6172119									
Acetone	6	U	6.	20	ug/l	213	204	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	95	94	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	99	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	98	95	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	100	99	80-120	2	30
Bromoform	1	U	1.	5	ug/l	103	102	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	79	80	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	157*	152*	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	91	90	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	99	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	90	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	113	113	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	85	85	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	112	111	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	103	101	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	81	82	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	3	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorotoluene	1	U	1.	5	ug/l	94	92	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	97	92	38-136	5	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	124*	119	66-120	4	30
Dibromochloromethane	1	U	1.	5	ug/l	104	104	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	97	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	98	95	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	93	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	64	64	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	105	105	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	112	112	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	88	86	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	101	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	104	103	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	98	79-120	0	30
Freon 113	2	U	2.	10	ug/l	93	91	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	89	88	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	86	89	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	146*	143*	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	103	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	117	116	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	88	86	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	104	102	80-120	2	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	105	105	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	104	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	97	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	96	95	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	90	90	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	88	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	95	93	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	85	83	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	112	110	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	103	100	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	98	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	75	74	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30
Batch number: 10356WAM026	Sample number(s): 6172104									
Acenaphthene	0.010	U	0.010	0.050	ug/l	91	95	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	94	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	91	96	66-111	5	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	89	92	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	83	84	64-115	2	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	88	89	69-123	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	92	93	68-125	1	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	91	92	72-122	0	30
Butylbenzylphthalate	0.10	J	0.050	1.0	ug/l	92	88	70-130	4	30
Di-n-butylphthalate	0.15	J	0.050	1.0	ug/l	95	94	70-130	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	90	92	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	89	91	71-125	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	107	101	70-130	6	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	91	81	70-130	12	30
Bis(2-Ethylhexyl)phthalate	0.11	J	0.050	1.0	ug/l	84	89	70-130	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	92	95	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	93	94	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	88	89	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	93	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	82	83	75-115	1	30
Naphthalene	0.010	U	0.010	0.050	ug/l	87	90	72-109	3	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	72	74	70-130	2	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	74	77	70-130	4	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	87	89	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	87	90	69-118	3	30
Batch number: 10356WAN026	Sample number(s): 6172104									
Aniline	1	U	1.	5	ug/l	70	62	49-101	11	30
Benzidine	20	U	20.	60	ug/l	60	49	20-109	20	30
Benzoic acid	6	U	6.	15	ug/l	24	53	10-69	76*	30
Benzyl alcohol	5	U	5.	15	ug/l	89	86	66-97	3	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	100	82-117	6	30
Carbazole	1	U	1.	5	ug/l	99	101	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	97	99	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	60	49	42-124	21	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	95	98	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	96	97	77-108	1	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	94	96	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	82	83	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	97	97	77-108	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	97	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	100	100	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	92	67-108	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	89	89	63-110	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	90	88	65-113	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	66	62	49-111	6	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	100	101	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	95	97	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	104	106	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	91	94	78-119	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	88	94	64-120	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	103	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	103	102	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	102	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	98	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	89	87	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	55	56	10-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	85	80	52-113	6	30
Isophorone	1	U	1.	5	ug/l	96	100	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	92	92	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	85	83	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	103	102	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	97	97	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	84	84	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	95	98	75-109	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	1	U	1.	5	ug/l	97	102	86-120	5	30
4-Nitrophenol	10	U	10.	30	ug/l	45	46	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	97	96	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	91	92	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	97	99	53-110	2	30
Phenol	1	U	1.	5	ug/l	48	48	29-67	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	92	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	99	102	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	97	102	81-113	5	30
Batch number: 10362WAA026	Sample number(s): 6172104									
N-Nitrosodimethylamine	1.95		0.500	1.00	ng/l	92	89	70-130	4	30
Batch number: 10363SLG026	Sample number(s): 6172105-6172106,6172114									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 10363SLI026	Sample number(s): 6172103,6172105-6172109,6172111-6172118									
Acenaphthene	17	U	17.	170	ug/kg	99		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	102		75-122		
Aniline	170 U		170.	500	ug/kg	81		10-107		
Anthracene	17	U	17.	170	ug/kg	101		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	102		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	92		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	96		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	87		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	92		67-125		
Benzoic acid	170 U		170.	500	ug/kg	108		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	105		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	86		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	101		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	89		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	101		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	76		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	102		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	94		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	89		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	102		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	103		75-117		
Fluoranthene	17	U	17.	170	ug/kg	104		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	106		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	90		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	87		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	99		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	102		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97		66-117		
Naphthalene	17	U	17.	170	ug/kg	95		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	100		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	83		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	99		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	96		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	87		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	103		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	100		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	105		35-106		
Phenanthrene	17	U	17.	170	ug/kg	100		77-113		
Phenol	17	U	17.	170	ug/kg	99		58-112		
Pyrene	17	U	17.	170	ug/kg	105		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	101		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		

Batch number: 10363SLL026 Sample number(s): 6172103,6172105-6172109,6172111-6172118

Acenaphthene	0.67	U	0.67	1.7	ug/kg	74		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	84		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	81		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	85		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	83		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	82		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	89		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	93		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	85		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	90		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	91		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	94		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	99		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	76*		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	87		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	88		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	80		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	81		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	91		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	83		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 10357A34A	Sample number(s): 6172105-6172106,6172114									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	75	67-119	9	30
Batch number: 10362B94A	Sample number(s): 6172104,6172119									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 103610006A	Sample number(s): 6172104									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	95	91	80-120	4	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	92	89	80-120	3	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	75-125	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	75-125	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	91	89	72-117	2	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	90	88	80-120	2	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	97	80-120	3	30
HMX	0.65	U	0.65	2.0	ug/l	83	83	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	85	83	75-121	2	30
Nitroglycerin	5.2	U	5.2	15	ug/l	83	83	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	90	74-120	3	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	92	90	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	91	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	100	96	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	81	82	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	110	100	33-147	10	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	91	90	53-129	1	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	94	92	76-109	2	30
Batch number: 103650008A	Sample number(s): 6172105-6172106,6172114									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	100	96	54-134	4	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	99	95	54-134	4	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	113		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	112		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	116		80-120		
HMX	130 U		130.	380	ug/kg	106		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	112		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	100		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	117		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	117		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	116		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PETN	1,000 U		1,000.	3,000	ug/kg	115		80-120		
RDX	63	U	63.	150	ug/kg	111		75-131		
Tetryl	77	U	77.	150	ug/kg	136		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	127		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	118		80-120		
Batch number: 103560024A	Sample number(s): 6172104									
17b Formaldehyde by 8315A	10	U	10.	50	ug/l	88	96	69-130	9	30
Batch number: 103610005A	Sample number(s): 6172105-6172106,6172114									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	99		80-126		
Batch number: 103560021A	Sample number(s): 6172104									
2,4-D	0.16	U	0.16	0.50	ug/l	140*	148*	45-128	6	30
Dalapon	0.25	U	0.25	1.3	ug/l	98	100	40-100	2	30
2,4-DB	0.30	U	0.30	1.0	ug/l	108	112	41-138	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	112	51-144	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	60	67	23-93	11	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	160*	168*	72-145	5	30
MCPA	300 U		300.	1,000	ug/l	116	124	69-129	7	30
MCPP	50	U	50.	200	ug/l	96	104	66-132	8	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	112	112	53-141	0	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	108	116	56-135	7	30
Batch number: 110040013A	Sample number(s): 6172113-6172118									
2,4-D	1.2	U	1.2	3.6	ug/kg	108		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	40		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	95		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	94		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	111		60-141		
MCPA	76	U	76.	250	ug/kg	94		34-113		
MCPP (Mecoprop)	500		75.	250	ug/kg	88		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	105		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	90		48-138		
Batch number: 103570023A	Sample number(s): 6172104									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	133	133	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	124	134	73-147	8	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	111	121	68-128	9	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	125	71-139	8	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	126	137*	66-130	8	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	110	120	53-126	9	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	115	120	76-132	4	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	93	99	68-128	6	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	105	110	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	125	125	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	105	120	52-132	13	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	125	130	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	120	125	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	102	102	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	122	122	73-156	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	130	52-133	8	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103570024A	Sample number(s): 6172104									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	56*	64*	75-125	13	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	110	114	68-119	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	124*	142*	68-121	14	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103640027A	Sample number(s): 6172103,6172105-6172109,6172111-6172118									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	89	75-125	12	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	95		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	122		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103640030A	Sample number(s): 6172113-6172118									
Aldrin	0.066	U	0.066	0.17	ug/kg	64		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	33*		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	66		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	42*		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	88		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	118		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	83		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	72		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	79		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	64		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	105		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	114		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	80		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	79		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	106		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	48		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	83		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103560030A	Sample number(s): 6172104									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	98	92	60-120	6	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	101	96	60-120	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	92	60-120	8	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	93	60-120	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	70	68	60-120	3	30
Batch number: 103620026A	Sample number(s): 6172105-6172106,6172114									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		66-113		
Batch number: 103570018A	Sample number(s): 6172104									
Ethanol	200 U		200.	1,000	ug/l	84		66-132		
Isopropanol	200 U		200.	1,000	ug/l	80		75-125		
Methanol	200 U		200.	1,000	ug/l	84		77-137		
Batch number: 103640014A	Sample number(s): 6172105-6172106,6172114									
Ethanol	100 U		100.	500	ug/kg	103		75-112		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	97		75-134		
Batch number: 103640020A	Sample number(s): 6172105-6172106,6172114									
Diethylene glycol	7.0	U	7.0	13	mg/kg	92		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	91		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	89		75-125		
Batch number: 110170024A	Sample number(s): 6172104									
Diethylene glycol	10	U	10.	100	mg/l	91		78-126		
Ethylene glycol	10	U	10.	100	mg/l	86		80-124		
Propylene glycol	10	U	10.	100	mg/l	90		80-120		
Batch number: 103560029A	Sample number(s): 6172104									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	95	94	75-125	1	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	100	98	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	97	95	75-125	2	20
Batch number: 103640012A	Sample number(s): 6172105-6172106,6172114									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	111		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
Batch number: 103575713005	Sample number(s): 6172104									
Mercury	0.000050 U		0.00005 0	0.00020	mg/l	106	103	80-120	2	20
Batch number: 103631026002A	Sample number(s): 6172103,6172105-6172118									
Antimony	0.0583	U	0.0583	0.194	mg/kg	61		11-208		
Arsenic	0.0583	U	0.0583	0.388	mg/kg	88		80-120		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	92		82-118		
Cadmium	0.0350	U	0.0350	0.0971	mg/kg	92		82-118		
Chromium	0.117	U	0.117	0.388	mg/kg	87		80-120		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	91		82-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Copper	0.0915 J	0.0641	0.388	mg/kg	90		80-120		
Lead	0.0101 U	0.0101	0.194	mg/kg	92		80-120		
Nickel	0.0971 U	0.0971	0.388	mg/kg	99		80-120		
Silver	0.0117 U	0.0117	0.0971	mg/kg	90		66-134		
Thallium	0.0291 U	0.0291	0.0971	mg/kg	93		81-119		
Zinc	0.544 U	0.544	2.91	mg/kg	91		78-122		
Batch number: 103631026002B	Sample number(s): 6172103,6172105-6172118								
Selenium	0.0388 U	0.0388	0.388	mg/kg	92		79-122		
Batch number: 103631026002C	Sample number(s): 6172103,6172105-6172118								
Molybdenum	0.0485 U	0.0485	0.0971	mg/kg	95		78-122		
Batch number: 103631026002D	Sample number(s): 6172103,6172105-6172118								
Barium	0.105 U	0.105	0.388	mg/kg	93		79-121		
Batch number: 103635708004	Sample number(s): 6172103,6172105-6172118								
Aluminum	4.84 U	4.84	19.2	mg/kg	86		61-110		
Boron	0.856 U	0.856	4.81	mg/kg	86		78-110		
Calcium	5.89 U	5.89	19.2	mg/kg	92		88-110		
Iron	4.53 U	4.53	19.2	mg/kg	82		61-110		
Lithium	0.21 U	0.21	1.9	mg/kg	100		80-120		
Magnesium	2.44 U	2.44	9.62	mg/kg	89		82-110		
Manganese	0.0750 U	0.0750	0.481	mg/kg	92		81-119		
Phosphorus	1.69 J	0.538	9.62	mg/kg	103		80-120		
Potassium	17.3 U	17.3	48.1	mg/kg	89		78-110		
Sodium	35.9 U	35.9	96.2	mg/kg	89		87-110		
Strontium	0.0596 U	0.0596	0.481	mg/kg	93		79-121		
Tin	1.24 J	0.962	9.62	mg/kg	91		90-114		
Zirconium	0.808 U	0.808	4.81	mg/kg	99		80-120		
Batch number: 103645711002	Sample number(s): 6172103,6172105-6172118								
Mercury	0.0028 U	0.0028	0.0993	mg/kg	99		88-123		
Batch number: 103651848001	Sample number(s): 6172104								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	95	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	96	95	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	98	98	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	99	99	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	102	102	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	97	89-110	0	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	98	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	100	100	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	97	98	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	99	98	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	102	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	99	99	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	101	100	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	101	80-120	0	20
Batch number: 103656050001A	Sample number(s): 6172104								
Antimony	0.00030 U	0.00030	0.0010	mg/l	94	102	87-110	8	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	98	102	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	103	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	102	106	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	95	97	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	101	80-120	2	20
Copper	0.00058 J	0.00038	0.0020	mg/l	100	101	90-113	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.00023 J	0.00005 2	0.0010	mg/l	100	99	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	105	90-113	0	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	102	104	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	107	95	89-116	12	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	94	96	80-120	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	101	102	80-120	2	20
Batch number: 103656050001B	Sample number(s): 6172104								
Selenium	0.00025 U	0.00025	0.0020	mg/l	102	102	85-114	0	20
Batch number: 103656050001C	Sample number(s): 6172104								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	101	101	80-120	0	20
Batch number: 103656050001D	Sample number(s): 6172104								
Barium	0.00038 U	0.00038	0.0020	mg/l	103	105	88-113	1	20
Batch number: 110065708001	Sample number(s): 6172103,6172105-6172118								
Titanium	0.380 U	0.380	1.00	mg/kg	96		80-120		
Batch number: 110071026002A	Sample number(s): 6172103,6172105-6172118								
Vanadium	0.0220 U	0.0220	0.100	mg/kg	108		90-110		
Batch number: 10356196301A	Sample number(s): 6172104								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	99	90-110	1	20
Batch number: 10356196903A	Sample number(s): 6172104								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	97	97	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	97	97	90-110	0	20
Batch number: 10363658701A	Sample number(s): 6172104								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	93	96	85-115	3	20
Batch number: 10364102203A	Sample number(s): 6172105-6172106,6172114								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	102		80-120		
Batch number: 10365117102A	Sample number(s): 6172104								
21b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	107	100	90-110	6	20
Batch number: 11010010205A	Sample number(s): 6172103,6172105-6172106,6172111-6172113								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11010010205B	Sample number(s): 6172107-6172108,6172110,6172114-6172118								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11012012201A	Sample number(s): 6172103,6172105-6172106								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	91		90-110		
Batch number: 11012012201B	Sample number(s): 6172107-6172108,6172110-6172118								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	91		90-110		
Batch number: 11018243202A	Sample number(s): 6172103,6172105-6172108,6172110-6172118								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	100		80-120		
Batch number: 10356020001B	Sample number(s): 6172104								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
22b pH by 9040B					100		99-101		
Batch number: 10361039401C	Sample number(s): 6172103								
22a pH by 9045C					100		95-105		
Batch number: 10361039402A	Sample number(s): 6172105-6172107,6172110-6172116								
22a pH by 9045C					100		95-105		
Batch number: 10361039402B	Sample number(s): 6172117-6172118								
22a pH by 9045C					100		95-105		
Batch number: 10361182101C	Sample number(s): 6172103								
Oxidation Reduction Potential					100		98-102		
Batch number: 10361182102A	Sample number(s): 6172105-6172107,6172110-6172116								
Oxidation Reduction Potential					100		98-102		
Batch number: 10361182102B	Sample number(s): 6172117-6172118								
Oxidation Reduction Potential					100		98-102		
Batch number: 11007162402A	Sample number(s): 6172103,6172107-6172113,6172115-6172118								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
Batch number: 11014162401A	Sample number(s): 6172105-6172106,6172114								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103562BA	Sample number(s): 6172103,6172105,6172107-6172109,6172112,6172114 UNSPK: 6172107								
Acetone	175	168	15-210	1	30				
Benzene	92	93	55-143	6	30				
Bromobenzene	72	76	43-139	10	30				
Bromochloromethane	96	93	60-137	3	30				
Bromodichloromethane	88	90	53-136	7	30				
Bromoform	83	83	38-124	6	30				
Bromomethane	73	71	42-168	3	30				
2-Butanone	130	126	37-163	3	30				
n-Butylbenzene	50	52	30-146	8	30				
sec-Butylbenzene	53	55	33-157	8	30				
tert-Butylbenzene	58	59	41-152	6	30				
Carbon Tetrachloride	91	93	45-153	7	30				
Chlorobenzene	77	78	49-135	7	30				
Chloroethane	78	74	39-152	1	30				
2-Chloroethyl Vinyl Ether	96	94	32-139	3	30				
Chloroform	95	96	61-142	6	30				
Chloromethane	92	87	51-163	1	30				
2-Chlorotoluene	65	67	42-146	9	30				

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Quality Control Summary

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Reported: 02/04/11 at 03:48 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorotoluene	65	67	39-145	9	30				
Chlorotrifluoroethene	43*	41*	70-130	1	30				
1,2-Dibromo-3-chloropropane	79	78	30-139	5	30				
Dibromochloromethane	87	88	51-128	7	30				
1,2-Dibromoethane	87	89	54-129	7	30				
Dibromomethane	91	93	57-130	7	30				
1,2-Dichlorobenzene	72	74	36-133	9	30				
1,3-Dichlorobenzene	65	68	34-134	9	30				
1,4-Dichlorobenzene	68	71	35-136	9	30				
Dichlorodifluoromethane	71	65	26-151	3	30				
1,1-Dichloroethane	96	99	63-142	8	30				
1,2-Dichloroethane	96	96	68-131	5	30				
1,1-Dichloroethene	98	98	61-149	4	30				
cis-1,2-Dichloroethene	93	95	60-136	8	30				
trans-1,2-Dichloroethene	94	95	59-142	7	30				
1,2-Dichloropropane	91	94	62-135	8	30				
1,3-Dichloropropane	89	91	58-129	8	30				
2,2-Dichloropropane	89	93	53-147	9	30				
1,1-Dichloropropene	87	90	54-145	8	30				
cis-1,3-Dichloropropene	80	82	51-131	8	30				
trans-1,3-Dichloropropene	79	81	49-129	8	30				
Ethylbenzene	69	69	44-141	6	30				
Freon 113	101	102	56-156	6	30				
Freon 133a	78	79	70-130	4	30				
Hexachlorobutadiene	46	47	10-155	6	30				
2-Hexanone	83	83	32-160	4	30				
Isopropylbenzene	61	61	38-144	6	30				
p-Isopropyltoluene	53	55	29-152	9	30				
Methyl Tertiary Butyl Ether	90	91	55-129	7	30				
4-Methyl-2-pentanone	71	70	46-139	4	30				
Methylene Chloride	83	88	61-141	10	30				
n-Propylbenzene	62	63	39-157	7	30				
Styrene	73	74	35-134	6	30				
1,1,1,2-Tetrachloroethane	84	85	52-130	7	30				
1,1,2,2-Tetrachloroethane	86	88	40-152	7	30				
Tetrachloroethene	75	76	42-149	7	30				
Toluene	81	82	50-146	7	30				
1,2,3-Trichlorobenzene	63	68	10-140	12	30				
1,2,4-Trichlorobenzene	58	62	10-136	12	30				
1,1,1-Trichloroethane	88	89	64-142	6	30				
1,1,2-Trichloroethane	90	91	54-139	5	30				
Trichloroethene	84	84	53-144	6	30				
Trichlorofluoromethane	89	83	47-163	2	30				
1,2,3-Trichloropropane	84	88	45-154	9	30				
1,2,4-Trimethylbenzene	64	66	37-149	8	30				
1,3,5-Trimethylbenzene	62	64	38-150	9	30				
Vinyl Chloride	85	81	50-154	1	30				
m+p-Xylene	69	70	44-137	6	30				
o-Xylene	67	69	42-137	8	30				
Batch number: B103621AA	Sample number(s): 6172106 UNSPK: P173165								
Acetone	95		15-210						
Benzene	106		55-143						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromobenzene	84		43-139						
Bromochloromethane	104		60-137						
Bromodichloromethane	97		53-136						
Bromoform	85		38-124						
Bromomethane	68		42-168						
2-Butanone	87		37-163						
n-Butylbenzene	83		30-146						
sec-Butylbenzene	87		33-157						
tert-Butylbenzene	85		41-152						
Carbon Tetrachloride	107		45-153						
Chlorobenzene	92		49-135						
Chloroethane	69		39-152						
2-Chloroethyl Vinyl Ether	98		32-139						
Chloroform	105		61-142						
Chloromethane	92		51-163						
2-Chlorotoluene	86		42-146						
4-Chlorotoluene	85		39-145						
1,2-Dibromo-3-chloropropane	73		30-139						
Dibromochloromethane	90		51-128						
1,2-Dibromoethane	91		54-129						
Dibromomethane	100		57-130						
1,2-Dichlorobenzene	79		36-133						
1,3-Dichlorobenzene	79		34-134						
1,4-Dichlorobenzene	79		35-136						
Dichlorodifluoromethane	84		26-151						
1,1-Dichloroethane	106		63-142						
1,2-Dichloroethane	102		68-131						
1,1-Dichloroethene	110		61-149						
cis-1,2-Dichloroethene	105		60-136						
trans-1,2-Dichloroethene	108		59-142						
1,2-Dichloropropane	102		62-135						
1,3-Dichloropropane	93		58-129						
2,2-Dichloropropane	101		53-147						
1,1-Dichloropropene	106		54-145						
cis-1,3-Dichloropropene	89		51-131						
trans-1,3-Dichloropropene	83		49-129						
Ethylbenzene	94		44-141						
Freon 113	112		56-156						
Hexachlorobutadiene	68		10-155						
2-Hexanone	60		32-160						
Isopropylbenzene	91		38-144						
p-Isopropyltoluene	85		29-152						
Methyl Tertiary Butyl Ether	93		55-129						
4-Methyl-2-pentanone	70		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	91		39-157						
Styrene	89		35-134						
1,1,1,2-Tetrachloroethane	94		52-130						
1,1,2,2-Tetrachloroethane	83		40-152						
Tetrachloroethene	98		42-149						
Toluene	98		50-146						
1,2,3-Trichlorobenzene	59		10-140						
1,2,4-Trichlorobenzene	58		10-136						

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	94		54-139						
Trichloroethene	102		53-144						
Trichlorofluoromethane	92		47-163						
1,2,3-Trichloropropane	84		45-154						
1,2,4-Trimethylbenzene	85		37-149						
1,3,5-Trimethylbenzene	87		38-150						
Vinyl Chloride	93		50-154						
m+p-Xylene	95		44-137						
o-Xylene	89		42-137						
Batch number: E103562AA	Sample number(s): 6172119 UNSPK: P171167								
1,4-Dioxane	109		50-150						
Batch number: E103571BA	Sample number(s): 6172103,6172105-6172109,6172112,6172114 UNSPK: 6172107								
1,4-Dioxane	90	93	70-130	1	30				
Batch number: 10363SLG026	Sample number(s): 6172105-6172106,6172114 UNSPK: P172090								
N-Nitrosodimethylamine	69*	69*	70-130	0	30				
Batch number: 10363SLI026	Sample number(s): 6172103,6172105-6172109,6172111-6172118 UNSPK: 6172107								
Acenaphthene	95	47*	75-115	67*	30				
Acenaphthylene	101	50	49-126	68*	30				
Aniline	57	25	14-114	78*	30				
Anthracene	101	50*	75-115	68*	30				
Benzidine	50	26*	35-141	63*	30				
Benzo(a)anthracene	102	51*	65-122	66*	30				
Benzo(a)pyrene	90	45*	57-126	66*	30				
Benzo(b)fluoranthene	94	47*	59-125	66*	30				
Benzo(g,h,i)perylene	98	47*	59-127	70*	30				
Benzo(k)fluoranthene	87	44*	56-132	65*	30				
Benzoic acid	39	21	10-173	59*	30				
Benzyl alcohol	96	45*	55-123	71*	30				
4-Bromophenyl-phenylether	101	50*	67-129	68*	30				
Butylbenzylphthalate	105	54*	73-134	64*	30				
Di-n-butylphthalate	102	51*	67-123	67*	30				
Carbazole	99	51*	64-120	64*	30				
4-Chloro-3-methylphenol	92	46*	53-130	67*	30				
4-Chloroaniline	49	30	23-95	48*	30				
bis(2-Chloroethoxy)methane	92	46*	54-117	68*	30				
bis(2-Chloroethyl)ether	91	42*	60-116	73*	30				
bis(2-Chloroisopropyl)ether	91	42*	55-142	73*	30				
2-Chloronaphthalene	79	47*	50-141	51*	30				
2-Chlorophenol	98	46*	73-121	72*	30				
4-Chlorophenyl-phenylether	96	49*	64-119	65*	30				
Chrysene	101	51*	62-128	66*	30				
Dibenz(a,h)anthracene	96	46*	65-125	69*	30				
Dibenzofuran	99	49*	71-112	67*	30				
1,2-Dichlorobenzene	83	40*	66-108	70*	30				
1,3-Dichlorobenzene	80	39*	63-109	69*	30				
1,4-Dichlorobenzene	83	39*	53-113	74*	30				
3,3'-Dichlorobenzidine	89	46	25-123	64*	30				
2,4-Dichlorophenol	96	47*	78-117	68*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylphthalate	98	50*	66-118	65*	30				
2,4-Dimethylphenol	97	46*	56-130	72*	30				
3,5-Dimethylphenol	102	50*	70-130	69*	30				
Dimethylphthalate	96	49*	64-118	64*	30				
4,6-Dinitro-2-methylphenol	33	17	10-148	66*	30				
2,4-Dinitrophenol	21	0*	20-143	200*	30				
2,4-Dinitrotoluene	94	47*	57-114	66*	30				
2,6-Dinitrotoluene	96	47*	69-123	68*	30				
1,2-Diphenylhydrazine	102	50*	71-129	68*	30				
bis(2-Ethylhexyl)phthalate	101	51*	63-122	65*	30				
Fluoranthene	102	50*	59-122	68*	30				
Fluorene	97	49*	60-125	66*	30				
Hexachlorobenzene	105	51*	61-111	69*	30				
Hexachlorobutadiene	91	45*	62-120	68*	30				
Hexachlorocyclopentadiene	24	10	10-153	80*	30				
Hexachloroethane	66	31*	57-109	74*	30				
Indeno(1,2,3-cd)pyrene	94	46*	61-126	69*	30				
Isophorone	93	46*	51-118	68*	30				
1-Methylnaphthalene	94	46*	73-112	68*	30				
2-Methylnaphthalene	88	43*	76-114	69*	30				
2-Methylphenol	98	46*	47-142	72*	30				
4-Methylphenol	89	43*	55-126	70*	30				
Naphthalene	91	44*	72-116	69*	30				
2-Nitroaniline	102	52*	67-125	65*	30				
3-Nitroaniline	94	48*	59-122	65*	30				
4-Nitroaniline	76	38*	52-112	68*	30				
Nitrobenzene	93	45*	51-114	69*	30				
2-Nitrophenol	92	44*	74-115	70*	30				
4-Nitrophenol	85	43	39-133	65*	30				
N-Nitroso-di-n-propylamine	91	44*	60-116	70*	30				
N-Nitrosodimethylamine	75	43*	47-116	54*	30				
N-Nitrosodiphenylamine	105	52*	86-145	68*	30				
Di-n-octylphthalate	97	48*	56-126	68*	30				
Pentachlorophenol	79	33	17-149	82*	30				
Phenanthrene	100	49*	65-125	68*	30				
Phenol	95	44*	58-126	73*	30				
Pyrene	105	53	51-151	66*	30				
1,2,4-Trichlorobenzene	94	46*	72-115	69*	30				
2,4,5-Trichlorophenol	99	51	34-139	64*	30				
2,4,6-Trichlorophenol	102	53	49-140	64*	30				
Batch number: 10363SLL026	Sample number(s): 6172103,6172105-6172109,6172111-6172118 UNSPK: 6172107								
Acenaphthene	92	85	63-105	7	30				
Acenaphthylene	91	89	55-126	2	30				
Anthracene	93	90	46-136	3	30				
Benzo(a)anthracene	93	93	39-144	1	30				
Benzo(a)pyrene	105	82	34-156	25	30				
Benzo(b)fluoranthene	103	87	43-155	17	30				
Benzo(g,h,i)perylene	105	87	33-141	19	30				
Benzo(k)fluoranthene	118	95	42-144	21	30				
Butylbenzylphthalate	106	100	73-140	6	30				
Di-n-butylphthalate	115	110	78-160	4	30				
Chrysene	90	90	29-156	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenz(a,h)anthracene	107	91	41-130	16	30				
Diethylphthalate	115	99	87-131	15	30				
Dimethylphthalate	104	93	74-118	11	30				
Bis(2-Ethylhexyl)phthalate	111	113	39-167	2	30				
Fluoranthene	95	92	26-166	3	30				
Fluorene	102	88	45-121	15	30				
Indeno(1,2,3-cd)pyrene	107	90	21-143	17	30				
1-Methylnaphthalene	82	89	72-123	8	30				
2-Methylnaphthalene	85	83	28-121	2	30				
Naphthalene	85	83	61-102	2	30				
N-Nitrosodimethylamine	99	94	48-113	5	30				
Di-n-octylphthalate	109	93	40-192	16	30				
Phenanthrene	91	90	12-165	2	30				
Pyrene	91	88	15-153	3	30				
Batch number: 10357A34A	Sample number(s): 6172105-6172106,6172114 UNSPK: P172090								
9a TPH by EPA 8015B Gas C5-C12	73	74	39-118	15	30				
Batch number: 103650008A	Sample number(s): 6172105-6172106,6172114 UNSPK: 6172105								
4-Amino-2,6-Dinitrotoluene	99	95	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	100	96	80-137	4	50				
1,3-Dinitrobenzene	103	98	38-166	5	50				
2,4-Dinitrotoluene	100	95	80-131	5	50				
2,6-Dinitrotoluene	105	100	80-127	5	50				
HMX	85	82	63-128	4	50				
Nitrobenzene	107	100	80-125	7	50				
Nitroglycerin	88	86	80-120	3	50				
2-Nitrotoluene	108	102	80-122	5	50				
3-Nitrotoluene	108	103	72-119	5	50				
4-Nitrotoluene	107	103	80-125	4	50				
PETN	97	93	80-121	5	50				
RDX	91	89	75-129	2	50				
Tetryl	105	101	55-174	4	50				
1,3,5-Trinitrobenzene	112	107	82-126	5	50				
2,4,6-Trinitrotoluene	102	98	82-130	4	50				
Batch number: 103610005A	Sample number(s): 6172105-6172106,6172114 UNSPK: P172090								
17a Formaldehyde by 8315A	62*	70*	80-120	3	50				
Batch number: 110040013A	Sample number(s): 6172113-6172118 UNSPK: P172316								
2,4-D	105	99	28-161	6	35				
Dalapon	57	103*	12-86	57*	50				
2,4-DB	157	136	20-170	14	50				
Dicamba	72	75	33-120	3	50				
Dinoseb	10	10	1-44	2	35				
2,4-DP (Dichlorprop)	138	113	55-141	20	50				
MCPA	91	129	31-184	34	50				
MCPP (Mecoprop)	38	27	16-174	33	50				
2,4,5-T	60	65	25-132	8	35				
2,4,5-TP	83	93	10-183	11	35				
Batch number: 103640027A	Sample number(s): 6172103,6172105-6172109,6172111-6172118 UNSPK: 6172107								
PCB-1016	104	141	29-146	30	50				

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Quality Control Summary

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Reported: 02/04/11 at 03:48 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PCB-1260	128	151*	39-149	17	50				
Batch number: 103640030A	Sample number(s): 6172113-6172118 UNSPK: P172316								
Aldrin	103	118	16-126	14	50				
Alpha BHC	91	76	10-129	18	50				
Beta BHC	56	50	14-147	12	50				
Gamma BHC - Lindane	91	88	10-140	3	50				
p,p-DDD	85	97	16-163	13	50				
p,p-DDE	171*	202*	18-161	17	50				
p,p-DDT	143	182*	10-176	24	50				
Delta BHC	119	94	23-140	24	50				
Dieldrin	76	97	19-154	25	50				
Endosulfan I	79	91	16-137	14	50				
Endosulfan II	103	106	28-154	3	50				
Endosulfan Sulfate	131	131	21-160	0	50				
Endrin	92	95	11-149	3	50				
Endrin Aldehyde	65	67	10-148	2	35				
Endrin Ketone	102	106	22-165	4	50				
Heptachlor	76	88	13-126	15	50				
Heptachlor Epoxide	100	124	13-157	22	50				
Methoxychlor	83	127	32-147	42	50				
Batch number: 103620026A	Sample number(s): 6172105-6172106,6172114 UNSPK: P172090								
EFH (C12-C14)	74	69	49-123	7	20				
EFH (C15-C20)	97	90	49-123	8	20				
EFH (C21-C30)	55	41*	49-123	11	20				
EFH (C30 - C40)	17*	-23*	49-123	29*	20				
EFH (C8-C11)	54	56	49-123	4	20				
Batch number: 103570018A	Sample number(s): 6172104 UNSPK: P169785								
Ethanol	84	84	69-125	0	20				
Isopropanol	80	84	75-125	5	20				
Methanol	84	88	61-131	5	20				
Batch number: 103640014A	Sample number(s): 6172105-6172106,6172114 UNSPK: P172090								
Ethanol	88	88	24-143	1	20				
Isopropanol	80	80	75-125	0	20				
Methanol	77	81	45-136	5	20				
Batch number: 103640020A	Sample number(s): 6172105-6172106,6172114 UNSPK: P172090								
Diethylene glycol	71	68	59-109	5	20				
Ethylene glycol	78	73	63-107	6	20				
Propylene glycol	73	69	63-107	6	20				
Batch number: 110170024A	Sample number(s): 6172104 UNSPK: P184193								
Diethylene glycol	91	95	83-130	5	20				
Ethylene glycol	81*	86*	89-125	6	20				
Propylene glycol	85*	85*	91-128	0	20				
Batch number: 103640012A	Sample number(s): 6172105-6172106,6172114 UNSPK: P172090								
m-Terphenyl	105	104	75-125	1	20				
o-Terphenyl	110	108	75-125	1	20				
p-Terphenyl	104	103	75-125	1	20				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103631026002A	Sample number(s): 6172103,6172105-6172118 UNSPK: 6172107 BKG: 6172107								
Antimony	43*	44*	75-125	0	20	0.0791 J	0.0791 J	0 (1)	20
Arsenic	154*	170*	75-125	4	20	3.67	4.11	11	20
Beryllium	113	103	75-125	7	20	0.469	0.512	9 (1)	20
Cadmium	122	124	75-125	0	20	0.0773 J	0.127	49* (1)	20
Chromium	129*	124	75-125	2	20	13.9	16.9	20	20
Cobalt	106	105	75-125	2	20	4.34	5.40	22*	20
Copper	114	105	75-125	6	20	6.75	7.86	15	20
Lead	145*	117	75-125	10	20	4.46	4.96	11	20
Nickel	124	117	75-125	4	20	8.96	10.9	20	20
Silver	118	119	75-125	0	20	0.0171 J	0.0238 J	33* (1)	20
Thallium	120	118	75-125	2	20	0.272	0.288	6 (1)	20
Zinc	255 (2)	243 (2)	75-125	2	20	49.8	59.4	18	20
Batch number: 103631026002B	Sample number(s): 6172103,6172105-6172118 UNSPK: 6172107 BKG: 6172107								
Selenium	111	105	75-125	6	20	0.159 J	0.168 J	6 (1)	20
Batch number: 103631026002C	Sample number(s): 6172103,6172105-6172118 UNSPK: 6172107 BKG: 6172107								
Molybdenum	126*	122	75-125	4	20	0.358	0.361	1 (1)	20
Batch number: 103631026002D	Sample number(s): 6172103,6172105-6172118 UNSPK: 6172107 BKG: 6172107								
Barium	331 (2)	250 (2)	75-125	8	20	73.3	89.5	20	20
Batch number: 103635708004	Sample number(s): 6172103,6172105-6172118 UNSPK: 6172107 BKG: 6172107								
Aluminum	457 (2)	101 (2)	75-125	5	20	12,600	11,900	6	20
Boron	93	95	84-115	6	20	2.83 J	3.41 J	18 (1)	20
Calcium	88 (2)	346 (2)	75-125	23*	20	3,550	3,320	7	20
Iron	-232 (2)	486 (2)	75-125	4	20	18,300	17,200	6	20
Lithium	95	96	82-114	4	20	24.9	22.7	9	20
Magnesium	98 (2)	236 (2)	75-125	6	20	4,700	4,380	7	20
Manganese	81 (2)	101 (2)	75-125	4	20	239	223	7	20
Phosphorus	90	111	75-125	5	20	362	339	6	20
Potassium	81	95	75-125	4	20	3,090	2,780	11	20
Sodium	97	98	75-125	4	20	111	105	6 (1)	20
Strontium	97	96	75-115	3	20	12.7	12.6	1	20
Tin	88	88	80-110	5	20	2.05 J	1.91 J	7 (1)	20
Zirconium	94	94	75-125	4	20	1.05 J	1.21 J	14 (1)	20
Batch number: 103645711002	Sample number(s): 6172103,6172105-6172118 UNSPK: 6172107 BKG: 6172107								
Mercury	97	96	65-135	3	20	0.0062 J	0.0209 J	109* (1)	20
Batch number: 110065708001	Sample number(s): 6172103,6172105-6172118 UNSPK: 6172107 BKG: 6172107								
Titanium	289 (2)	298 (2)	75-125	0	20	1,150	1,120	3	20
Batch number: 110071026002A	Sample number(s): 6172103,6172105-6172118 UNSPK: 6172107 BKG: 6172107								
Vanadium	126 (2)	165 (2)	75-125	7	20	41.9	34.2	20	20
Batch number: 10364102203A	Sample number(s): 6172105-6172106,6172114 UNSPK: 6172105 BKG: 6172105								
21a Cyanide by 9012B	94		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11010010205A	Sample number(s): 6172103,6172105-6172106,6172111-6172113 UNSPK: P172090 BKG:								

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Quality Control Summary

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Reported: 02/04/11 at 03:48 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
	P172090										
7a Perchlorate EPA 314.0	100		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11010010205B	Sample number(s): 6172107-6172108,6172110,6172114-6172118 UNSPK: 6172107 BKG: 6172107										
7a Perchlorate EPA 314.0	104		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11012012201A	Sample number(s): 6172103,6172105-6172106 UNSPK: P172090 BKG: P172090										
11a Anions by 300.0 - Fluoride	77*		80-120			3.9		3.0		26* (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			1.4	J	1.3	J	10 (1)	20
Batch number: 11012012201B	Sample number(s): 6172107-6172108,6172110-6172118 UNSPK: 6172107 BKG: 6172107										
11a Anions by 300.0 - Fluoride	76*		80-120			2.9		3.1		7 (1)	20
11a Anions by 300.0 - Nitrate	81		80-120			1.3	J	1.1	J	13 (1)	20
Batch number: 11018243202A	Sample number(s): 6172103,6172105-6172108,6172110-6172118 UNSPK: 6172107 BKG: 6172107										
3a Cr VI by EPA 7199	100		75-125			0.26	J	0.28	J	7 (1)	20
Batch number: 10356020001B	Sample number(s): 6172104 BKG: P171899										
22b pH by 9040B						8.7		8.7		0	1
Batch number: 10361039401C	Sample number(s): 6172103 BKG: P172090										
22a pH by 9045C						8.54		8.51		0	1
Batch number: 10361039402A	Sample number(s): 6172105-6172107,6172110-6172116 BKG: 6172107										
22a pH by 9045C						8.82		8.66		2*	1
Batch number: 10361039402B	Sample number(s): 6172117-6172118 BKG: P172316										
22a pH by 9045C						6.51		6.46		1	1
Batch number: 10361182101C	Sample number(s): 6172103 BKG: P172090										
Oxidation Reduction Potential						464		459		1	6
Batch number: 10361182102A	Sample number(s): 6172105-6172107,6172110-6172116 BKG: 6172107										
Oxidation Reduction Potential						364		373		2	6
Batch number: 10361182102B	Sample number(s): 6172117-6172118 BKG: P172316										
Oxidation Reduction Potential						536		541		1	6
Batch number: 11007162402A	Sample number(s): 6172103,6172107-6172113,6172115-6172118 BKG: 6172107										
28a Moisture Content by 160.3						8.1		8.1		1	20
28a Moisture Content by 160.3						8.1		8.1		1	20
28a Moisture Content by 160.3						8.1		8.1		1	20
Batch number: 11014162401A	Sample number(s): 6172105-6172106,6172114 BKG: P182836										
28a Moisture Content by 160.3						12.3		13.1		6	20

Surrogate Quality Control

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Quality Control Summary

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Reported: 02/04/11 at 03:48 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103562BA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6172103	105	102	97	92
6172105	106	101	96	92
6172107	105	102	97	93
6172108	101	103	102	99
6172109	101	100	102	99
6172112	106	106	96	93
6172114	105	101	99	86
Blank	103	100	99	92
LCS	100	105	101	100
MS	101	103	102	99
MSD	101	100	102	99
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6172106	87	106	94	95
Blank	105	103	95	92
LCS	101	102	98	101
LCSD	100	102	99	100
MS	101	104	98	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103562AA

	Toluene-d8
6172119	102
Blank	100
LCS	100
LCSD	100
MS	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103571BA

	Toluene-d8
6172103	100
6172105	101
6172106	100
6172107	100
6172108	100
6172109	100
6172112	101
6172114	99

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Surrogate Quality Control

Blank	101
LCS	100
LCSD	100
MS	100
MSD	100
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103572AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6172119	104	97	106	103
Blank	104	100	106	103
LCS	106	101	107	104
LCSD	106	102	107	105
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10356WAM026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172104	100	76	73
Blank	84	81	86
LCS	94	85	85
LCSD	97	86	91
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10356WAN026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172104	46	31	57	84	87	79
Blank	55	38	92	86	86	83
LCS	65	46	99	91	92	86
LCSD	64	45	99	91	91	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 19b NDMA by 1625C
Batch number: 10362WAA026

	N-Nitrosodimethylamine-d6
6172104	172*
Blank	101
LCS	97
LCSD	102
Limits:	50-150

Analysis Name: 19a NDMA by 1625C
Batch number: 10363SLG026

	N-Nitrosodimethylamine-d6

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Surrogate Quality Control

6172105	206*
6172106	954*
6172114	548*
Blank	104
LCS	110
MS	152*
MSD	151*
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10363SLI026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172103	86	87	83	85	89	82
6172105	86	86	90	83	90	90
6172106	86	76	70	86	89	88
6172107	90	90	89	87	92	93
6172108	91	92	96	90	93	93
6172109	44	45	48	44	46	47
6172111	92	90	93	85	86	85
6172112	82	75	88	67	68	86
6172113	95	92	94	88	92	90
6172114	51	50	50	47	49	46
6172115	94	92	89	85	87	90
6172116	94	94	90	90	93	90
6172117	96	94	92	86	91	93
6172118	95	94	91	88	90	90
Blank	90	91	93	87	92	87
LCS	95	94	99	91	95	90
MS	91	92	96	90	93	93
MSD	44	45	48	44	46	47
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10363SLL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6172103	93	91	90
6172105	91	82	81
6172106	87	81	91
6172107	87	89	89
6172108	93	88	87
6172109	93	84	84
6172111	88	83	86
6172112	102	86	84
6172113	97	85	79
6172114	88	79	80
6172115	121	88	68
6172116	102	84	77
6172117	91	91	97
6172118	99	85	77
Blank	87	83	83
LCS	88	80	87
MS	93	88	87
MSD	93	84	84

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Surrogate Quality Control

Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10357A34A

	Trifluorotoluene-F
6172105	88
6172106	84
6172114	80
Blank	87
LCS	91
LCSD	96
MS	84
MSD	85

Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10362B94A

	Trifluorotoluene-F
6172104	85
6172119	85
Blank	87
LCS	90
LCSD	88

Limits:	63-135

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103560021A

	2,4-Dichlorophenylacetic acid
6172104	105
Blank	116
LCS	126
LCSD	132

Limits:	35-144

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 103560024A

	Butyraldehyde
6172104	100
Blank	92
LCS	97
LCSD	102

Limits:	45-145	

Analysis Name: 12b Pesticides by 8081A
Batch number: 103570023A

	Tetrachloro-m-xylene	Decachlorobiphenyl

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Surrogate Quality Control

6172104	101	90
Blank	102	107
LCS	105	115
LCSD	105	115
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103570024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6172104	93	82
Blank	109	107
LCS	107	104
LCSD	109	114
Limits:	30-150	45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103610005A

	Butyraldehyde
6172105	98
6172106	103
6172114	97
Blank	92
LCS	97
MS	102
MSD	102
Limits:	64-126

Analysis Name: 20b Energetics by 8330A
Batch number: 103610006A

	2-Nitro-m-xylene
6172104	93
Blank	85
LCS	97
LCSD	90
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103640027A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6172103	99	122*
6172105	103	118
6172106	88	114
6172107	92	111
6172108	90	110
6172109	93	109
6172111	127	148*
6172112	114	133*
6172113	94	93
6172114	94	81

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Surrogate Quality Control

6172115	78	73
6172116	103	608*
6172117	88	89
6172118	103	100
Blank	98	116
LCS	91	112
LCSD	106	136*
MS	90	110
MSD	93	109
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 103640030A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6172113	79	129*
6172114	78	0*
6172115	64	0*
6172116	71	241*
6172117	75	119
6172118	82	66
Blank	32*	102
LCS	29*	99
MS	61	70
MSD	88	75
Limits:	50-130	20-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103650008A

	2-Nitro-m-xylene
6172105	117
6172106	122
6172114	119
Blank	123
LCS	120
LCSD	115
MS	121
MSD	116
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110040013A

	2,4-Dichlorophenylacetic acid
6172113	88
6172114	102
6172115	137
6172116	243*
6172117	71
6172118	72
Blank	103
LCS	94

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Surrogate Quality Control

MS 95
MSD 94

Limits: 36-156

Analysis Name: 26b Terphenyls by 8015B
Batch number: 103560029A

	n-Triacontane-d62
6172104	92
Blank	95
LCS	98
LCSD	93
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 103560030A

	Chlorobenzene	Orthoterphenyl
6172104	72	75
Blank	91	93
LCS	76	92
LCSD	76	85
Limits:	28-152	52-131

Analysis Name: 25b Alcohols by 8015B
Batch number: 103570018A

	Acetone
6172104	97
Blank	99
LCS	90
MS	99
MSD	89
Limits:	54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103620026A

	Chlorobenzene	Orthoterphenyl
6172105	61	82
6172106	103	79
6172114	73	92
Blank	75	85
LCS	79	88
MS	76	84
MSD	75	84
Limits:	37-125	47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103640012A

	n-Triacontane-d62

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226686
Reported: 02/04/11 at 03:48 PM

Surrogate Quality Control

6172105	97
6172106	95
6172114	88
Blank	103
LCS	102
MS	99
MSD	98
Limits:	50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 103640014A

Acetone

6172105	92
6172106	87
6172114	75
Blank	99
LCS	95
MS	85
MSD	85
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103640020A

Tetramethylene glycol

6172105	88
6172106	84
6172114	74
Blank	86
LCS	104
MS	84
MSD	80
Limits:	50-119

Analysis Name: 27b Glycols by 8015B
Batch number: 110170024A

Tetramethylene glycol

6172104	101
Blank	97
LCS	99
MS	98
MSD	100
Limits:	10-164

*- Outside of specification
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13013 1226686 - 6172103-19

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hexchrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	**TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP02-SIV-QC-122110	12.21.10	0952	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									SEDIMENT DUP
DUP15-SA5B-QC-122110	12.21.10	1052	soil	none	2 16 oz. jars			X			X	X	X	X	X	X												SUBSURFACE DUP
DUP15-SA5B-QC-122110	12.21.10	1052	soil	none	4 Encore Samplers	X	X																					SUBSURFACE DUP
EB07-SA5B-122110	12.21.10	1212	water	none	6-1 liter ambers			X						X	X			X	X									surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	none	1-500 ml poly							X	X			X												surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	HNO3	1-500 ml poly						X																	surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	HCl	5 40-mL VOA vials				X																		X	surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	none	4 40 Ml VOA vials															X						X		surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	none	4 1L ambers					X												X	X		X			surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	none	1 250 mL glass bottle															X	X							surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	NaOH	1 500 mL poly																			X				surface tool rinsate
SED-002-SIV-SD-0.0-0.5	12.21.10	0950	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-015-SIV-SD-0.0-0.5	12.21.10	1305	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-036-SIV-SD-0.0-0.5	12.21.10	1145	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-038-SIV-SD-0.0-0.5	12.21.10	1515	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SED-039-SIV-SD-0.0-0.5	12.21.10	1055	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-006-SA5B-SB-4.0-5.0	12.21.10	1529	soil	none	4 16 oz jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-006-SA5B-SB-4.5	12.21.10	1525	soil	none	5 Encore Samplers	X	X		X																				
SL-006-SA5B-SB-5.0-6.0	12.21.10	1539	soil	none	4 16 oz jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	sample appears to be red concrete
SL-006-SA5B-SB-5.5	12.21.10	1535	soil	none	5 Encore Samplers	X	X		X																				sample appears to be red
SL-046-SA5B-SB-4.0-5.0MS	12.21.10	1047	soil	none	6 16 oz. jars			X		X	X	X	X	X	X	X													subsurface MS/MSD
SL-046-SA5B-SB-4.5MS	12.21.10	1041	soil	none	12 Encore Samplers	X	X																						subsurface MS/MSD
SL-046-SA5B-SB-9.0-10.0	12.21.10	1054	soil	none	2 16 oz. jars			X		X	X	X	X	X	X	X													
SL-047-SA5B-SB-4.0-5.0	12.21.10	1254	soil	none	2 16 oz. jars			X		X	X	X	X	X	X	X													
SL-047-SA5B-SB-4.5	12.21.10	1250	soil	none	4 Encore Samplers	X	X																						
SL-159-SA5B-SS-0.0-0.5	12.21.10	1037	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-183-SA5B-SS-0.0-0.5	12.21.10	1025	soil	none	2 x 16 oz. jars & 1 6" sleeve			X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-183-SA5B-SS-0.0-0.5	12.21.10	1025	soil	none	5 Encore Samplers	X	X		X																				
SL-219-SA5B-SS-0.0-0.5	12.21.10	0859	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-225-SA5B-SS-0.0-0.5	12.21.10	0935	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-226-SA5B-SS-0.0-0.5	12.21.10	0950	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-227-SA5B-SS-0.0-0.5	12.21.10	0938	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
TB-122110	12.21.10	1212	water	HCl	4-40 mL clear VOA vials	X	X		X																				trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.21.10 | 1630	Kirbi Ma.	12/22/10 1035	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Tracking Numbers 8695 1431 7903, ...7914, ...7925, ...7936		No. of coolers = 4

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/22/2010
Group Number: 1226687
SDG: DX032
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP15-SA5B-QC-122110 Soil	6172120
EB07-SA5B-122110 Water	6172121
SL-006-SA5B-SB-4.0-5.0 Soil	6172122
SL-006-SA5B-SB-5.0-6.0 Soil	6172123
SL-046-SA5B-SB-4.0-5.0 Soil	6172124
SL-046-SA5B-SB-4.0-5.0MS Soil	6172125
SL-046-SA5B-SB-4.0-5.0MSD Soil	6172126
SL-046-SA5B-SB-9.0-10.0 Soil	6172127
SL-047-SA5B-SB-4.0-5.0 Soil	6172128
SL-159-SA5B-SS-0.0-0.5 Soil	6172129
SL-183-SA5B-SS-0.0-0.5 Soil	6172130
SL-219-SA5B-SS-0.0-0.5 Soil	6172131
SL-225-SA5B-SS-0.0-0.5 Soil	6172132
SL-226-SA5B-SS-0.0-0.5 Soil	6172133
SL-227-SA5B-SS-0.0-0.5 Soil	6172134

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP15-SA5B-QC-122110 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172120
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP15 SDG#: DX032-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP15-SA5B-QC-122110 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172120
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP15 SDG#: DX032-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0227	U	0.0227	1.10	1
11031	12378-PeCDD	40321-76-4	0.0427	JBQ	0.0337	5.48	1
11031	123478-HxCDD	39227-28-6	0.0302	JBQ	0.0262	5.48	1
11031	123678-HxCDD	57653-85-7	0.112	J	0.0273	5.48	1
11031	123789-HxCDD	19408-74-3	0.0686	JBQ	0.0268	5.48	1
11031	1234678-HpCDD	35822-46-9	1.53	JB	0.0474	5.48	1
11031	OCDD	3268-87-9	17.6	B	0.0313	11.0	1
11031	2378-TCDF	51207-31-9	0.0346	U	0.0346	1.10	1
11031	12378-PeCDF	57117-41-6	0.0574	JBQ	0.0143	5.48	1
11031	23478-PeCDF	57117-31-4	0.102	JB	0.0145	5.48	1
11031	123478-HxCDF	70648-26-9	0.105	JBQ	0.0228	5.48	1
11031	123678-HxCDF	57117-44-9	0.0733	JBQ	0.0205	5.48	1
11031	123789-HxCDF	72918-21-9	0.0266	U	0.0266	5.48	1
11031	234678-HxCDF	60851-34-5	0.0972	JB	0.0215	5.48	1
11031	1234678-HpCDF	67562-39-4	0.340	JBQ	0.0253	5.48	1
11031	1234789-HpCDF	55673-89-7	0.113	JB	0.0359	5.48	1
11031	OCDF	39001-02-0	0.679	JB	0.0428	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP15-SA5B-QC-122110 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172120
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP15 SDG#: DX032-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP15-SA5B-QC-122110 Soil**
SSFL Area IV Collocated Soil Sampling
DUP15-SA5B-QC-122110

LLI Sample # SW 6172120
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:52

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP15 SDG#: DX032-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 09:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **EB07-SA5B-122110 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172121
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB07 SDG#: DX032-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.117 JBQ	0.0881	2.08	1
10915	12378-PeCDD	40321-76-4	0.152 JBQ	0.131	10.4	1
10915	123478-HxCDD	39227-28-6	0.0888 U	0.0888	10.4	1
10915	123678-HxCDD	57653-85-7	0.128 JBQ	0.0933	10.4	1
10915	123789-HxCDD	19408-74-3	0.184 JB	0.0905	10.4	1
10915	1234678-HpCDD	35822-46-9	1.31 JB	0.183	10.4	1
10915	OCDD	3268-87-9	3.13 JB	0.284	20.8	1
10915	2378-TCDF	51207-31-9	0.103 JBQ	0.0684	2.08	1
10915	12378-PeCDF	57117-41-6	0.136 JB	0.0531	10.4	1
10915	23478-PeCDF	57117-31-4	0.488 JBQ	0.0509	10.4	1
10915	123478-HxCDF	70648-26-9	0.273 JBQ	0.0802	10.4	1
10915	123678-HxCDF	57117-44-9	0.168 JBQ	0.0731	10.4	1
10915	123789-HxCDF	72918-21-9	0.209 JB	0.0867	10.4	1
10915	234678-HxCDF	60851-34-5	0.346 JBQ	0.0730	10.4	1
10915	1234678-HpCDF	67562-39-4	0.808 JBQ	0.0824	10.4	1
10915	1234789-HpCDF	55673-89-7	0.170 JBQ	0.106	10.4	1
10915	OCDF	39001-02-0	0.470 JB	0.251	20.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	61	28 - 130
13C12-1234678-HpCDD	52	23 - 140
13C12-OCDD	38	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: EB07-SA5B-122110 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5B-122110

LLI Sample # WW 6172121
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:12

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB07 SDG#: DX032-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018001	01/20/2011 23:00	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11018001	01/18/2011 05:45	Ginelle L Haines	1

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Analysis Report

Sample Description: **SL-006-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172122
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX032-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172122
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX032-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0254 U	0.0254	1.09	1
11031	12378-PeCDD	40321-76-4	0.0583 JBQ	0.0262	5.43	1
11031	123478-HxCDD	39227-28-6	0.0258 U	0.0258	5.43	1
11031	123678-HxCDD	57653-85-7	0.323 JQ	0.0283	5.43	1
11031	123789-HxCDD	19408-74-3	0.466 JBQ	0.0283	5.43	1
11031	1234678-HpCDD	35822-46-9	2.82 JB	0.0370	5.43	1
11031	OCDD	3268-87-9	37.2 B	0.0368	10.9	1
11031	2378-TCDF	51207-31-9	0.0265 JQ	0.0194	1.09	1
11031	12378-PeCDF	57117-41-6	0.0460 JB	0.00966	5.43	1
11031	23478-PeCDF	57117-31-4	0.103 JBQ	0.0103	5.43	1
11031	123478-HxCDF	70648-26-9	0.0712 JB	0.0244	5.43	1
11031	123678-HxCDF	57117-44-9	0.131 JBQ	0.0214	5.43	1
11031	123789-HxCDF	72918-21-9	0.0854 JBQ	0.0273	5.43	1
11031	234678-HxCDF	60851-34-5	0.163 JB	0.0232	5.43	1
11031	1234678-HpCDF	67562-39-4	0.416 JB	0.0191	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0659 JBQ	0.0289	5.43	1
11031	OCDF	39001-02-0	1.09 JB	0.0359	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172122
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX032-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-4.0-5.0

LLI Sample # SW 6172122
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:29

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0645 SDG#: DX032-03

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 09:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-006-SA5B-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172123
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0656 SDG#: DX032-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	17.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA5B-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172123
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0656 SDG#: DX032-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0224 U	0.0224	1.21	1
11031	12378-PeCDD	40321-76-4	0.0466 JBQ	0.0279	6.05	1
11031	123478-HxCDD	39227-28-6	0.0253 U	0.0253	6.05	1
11031	123678-HxCDD	57653-85-7	0.154 JQ	0.0272	6.05	1
11031	123789-HxCDD	19408-74-3	0.165 JBQ	0.0262	6.05	1
11031	1234678-HpCDD	35822-46-9	3.05 JB	0.0354	6.05	1
11031	OCDD	3268-87-9	23.1 B	0.0398	12.1	1
11031	2378-TCDF	51207-31-9	0.0208 U	0.0208	1.21	1
11031	12378-PeCDF	57117-41-6	0.0289 JB	0.00919	6.05	1
11031	23478-PeCDF	57117-31-4	0.0634 JBQ	0.00955	6.05	1
11031	123478-HxCDF	70648-26-9	0.0682 JBQ	0.0212	6.05	1
11031	123678-HxCDF	57117-44-9	0.0710 JB	0.0207	6.05	1
11031	123789-HxCDF	72918-21-9	0.0672 JBQ	0.0244	6.05	1
11031	234678-HxCDF	60851-34-5	0.0855 JBQ	0.0197	6.05	1
11031	1234678-HpCDF	67562-39-4	0.401 JB	0.0222	6.05	1
11031	1234789-HpCDF	55673-89-7	0.0639 JBQ	0.0284	6.05	1
11031	OCDF	39001-02-0	0.677 JB	0.0333	12.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5B-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172123
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0656 SDG#: DX032-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA5B-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5B-SB-5.0-6.0

LLI Sample # SW 6172123
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 15:39

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0656 SDG#: DX032-04

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 10:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172124
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-046-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172124
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0206	U	0.0206	1.09	1
11031	12378-PeCDD	40321-76-4	0.0682	JBQ	0.0298	5.44	1
11031	123478-HxCDD	39227-28-6	0.0646	JBQ	0.0348	5.44	1
11031	123678-HxCDD	57653-85-7	0.347	J	0.0365	5.44	1
11031	123789-HxCDD	19408-74-3	0.184	JB	0.0371	5.44	1
11031	1234678-HpCDD	35822-46-9	12.5	B	0.0446	5.44	1
11031	OCDD	3268-87-9	87.9	B	0.0458	10.9	1
11031	2378-TCDF	51207-31-9	0.0342	U	0.0342	1.09	1
11031	12378-PeCDF	57117-41-6	0.0587	JBQ	0.0124	5.44	1
11031	23478-PeCDF	57117-31-4	0.191	JBQ	0.0128	5.44	1
11031	123478-HxCDF	70648-26-9	0.0860	JBQ	0.0239	5.44	1
11031	123678-HxCDF	57117-44-9	0.0796	JBQ	0.0210	5.44	1
11031	123789-HxCDF	72918-21-9	0.134	JB	0.0260	5.44	1
11031	234678-HxCDF	60851-34-5	0.123	JB	0.0222	5.44	1
11031	1234678-HpCDF	67562-39-4	0.896	JB	0.0195	5.44	1
11031	1234789-HpCDF	55673-89-7	0.114	JB	0.0310	5.44	1
11031	OCDF	39001-02-0	2.61	JB	0.0348	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172124
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172124
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 11:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172125
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-046-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172125
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.1		0.0336	1.09	1
11031	12378-PeCDD	40321-76-4	109	B	0.0381	5.44	1
11031	123478-HxCDD	39227-28-6	106	B	0.0385	5.44	1
11031	123678-HxCDD	57653-85-7	108		0.0413	5.44	1
11031	123789-HxCDD	19408-74-3	106	B	0.0413	5.44	1
11031	1234678-HpCDD	35822-46-9	107	B	0.0564	5.44	1
11031	OCDD	3268-87-9	231	B	0.0650	10.9	1
11031	2378-TCDF	51207-31-9	21.8		0.0472	1.09	1
11031	12378-PeCDF	57117-41-6	105	B	0.0217	5.44	1
11031	23478-PeCDF	57117-31-4	104	B	0.0219	5.44	1
11031	123478-HxCDF	70648-26-9	106	B	0.0437	5.44	1
11031	123678-HxCDF	57117-44-9	106	B	0.0405	5.44	1
11031	123789-HxCDF	72918-21-9	106	B	0.0507	5.44	1
11031	234678-HxCDF	60851-34-5	108	B	0.0427	5.44	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0376	5.44	1
11031	1234789-HpCDF	55673-89-7	107	B	0.0534	5.44	1
11031	OCDF	39001-02-0	219	B	0.0452	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172125
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172125
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 12:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172126
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-046-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172126
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.5		0.0358	1.09	1
11031	12378-PeCDD	40321-76-4	108	B	0.0458	5.44	1
11031	123478-HxCDD	39227-28-6	105	B	0.0558	5.44	1
11031	123678-HxCDD	57653-85-7	109		0.0594	5.44	1
11031	123789-HxCDD	19408-74-3	107	B	0.0583	5.44	1
11031	1234678-HpCDD	35822-46-9	191	B	0.106	5.44	1
11031	OCDD	3268-87-9	1,450	B	0.103	10.9	1
11031	2378-TCDF	51207-31-9	21.8		0.0506	1.09	1
11031	12378-PeCDF	57117-41-6	105	B	0.0223	5.44	1
11031	23478-PeCDF	57117-31-4	104	B	0.0231	5.44	1
11031	123478-HxCDF	70648-26-9	108	B	0.0461	5.44	1
11031	123678-HxCDF	57117-44-9	108	B	0.0410	5.44	1
11031	123789-HxCDF	72918-21-9	107	B	0.0569	5.44	1
11031	234678-HxCDF	60851-34-5	107	B	0.0436	5.44	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0391	5.44	1
11031	1234789-HpCDF	55673-89-7	109	B	0.0597	5.44	1
11031	OCDF	39001-02-0	240	B	0.0508	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	99	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	100	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172126
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-4.0-5.0

LLI Sample # SW 6172126
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:47

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4645 SDG#: DX032-05MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 13:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172127
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4691 SDG#: DX032-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-046-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172127
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4691 SDG#: DX032-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0272	U	0.0272	1.13	1
11031	12378-PeCDD	40321-76-4	0.140	JB	0.0379	5.66	1
11031	123478-HxCDD	39227-28-6	0.0961	JBQ	0.0375	5.66	1
11031	123678-HxCDD	57653-85-7	0.230	JQ	0.0385	5.66	1
11031	123789-HxCDD	19408-74-3	0.349	JBQ	0.0360	5.66	1
11031	1234678-HpCDD	35822-46-9	1.03	JB	0.0498	5.66	1
11031	OCDD	3268-87-9	11.9	B	0.0352	11.3	1
11031	2378-TCDF	51207-31-9	0.0556	JQ	0.0378	1.13	1
11031	12378-PeCDF	57117-41-6	0.149	JBQ	0.0146	5.66	1
11031	23478-PeCDF	57117-31-4	0.309	JB	0.0163	5.66	1
11031	123478-HxCDF	70648-26-9	0.121	JBQ	0.0284	5.66	1
11031	123678-HxCDF	57117-44-9	0.166	JBQ	0.0249	5.66	1
11031	123789-HxCDF	72918-21-9	0.358	JBQ	0.0325	5.66	1
11031	234678-HxCDF	60851-34-5	0.164	JB	0.0271	5.66	1
11031	1234678-HpCDF	67562-39-4	0.392	JB	0.0205	5.66	1
11031	1234789-HpCDF	55673-89-7	0.138	JB	0.0289	5.66	1
11031	OCDF	39001-02-0	0.832	JB	0.0332	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-046-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172127
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4691 SDG#: DX032-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-046-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5B-SB-9.0-10.0

LLI Sample # SW 6172127
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:54

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4691 SDG#: DX032-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 17:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-047-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172128
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4745 SDG#: DX032-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-047-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172128
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4745 SDG#: DX032-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	U	0.0382	1.11	1
11031	12378-PeCDD	40321-76-4	0.0871	JB	0.0395	5.53	1
11031	123478-HxCDD	39227-28-6	0.111	JB	0.0440	5.53	1
11031	123678-HxCDD	57653-85-7	0.445	JQ	0.0454	5.53	1
11031	123789-HxCDD	19408-74-3	0.259	JBQ	0.0451	5.53	1
11031	1234678-HpCDD	35822-46-9	2.63	JB	0.0502	5.53	1
11031	OCDD	3268-87-9	40.9	B	0.0426	11.1	1
11031	2378-TCDF	51207-31-9	0.0480	U	0.0480	1.11	1
11031	12378-PeCDF	57117-41-6	0.0930	JBQ	0.0213	5.53	1
11031	23478-PeCDF	57117-31-4	0.166	JB	0.0215	5.53	1
11031	123478-HxCDF	70648-26-9	0.137	JB	0.0306	5.53	1
11031	123678-HxCDF	57117-44-9	0.102	JB	0.0281	5.53	1
11031	123789-HxCDF	72918-21-9	0.176	JBQ	0.0331	5.53	1
11031	234678-HxCDF	60851-34-5	0.115	JBQ	0.0291	5.53	1
11031	1234678-HpCDF	67562-39-4	0.610	JB	0.0200	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0908	JBQ	0.0299	5.53	1
11031	OCDF	39001-02-0	0.824	JB	0.0406	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-047-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172128
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4745 SDG#: DX032-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-047-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5B-SB-4.0-5.0

LLI Sample # SW 6172128
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 12:54

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D4745 SDG#: DX032-07

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the sample bottle(s) upon receipt at the lab was 6.4 - 9.0 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 18:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-159-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172129
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL159 SDG#: DX032-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172129
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL159 SDG#: DX032-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.250 JQ	0.0449	1.17	1
11031	12378-PeCDD	40321-76-4	2.08 JB	0.138	5.83	1
11031	123478-HxCDD	39227-28-6	5.59 JB	0.0854	5.83	1
11031	123678-HxCDD	57653-85-7	26.4	0.0899	5.83	1
11031	123789-HxCDD	19408-74-3	14.2 B	0.0871	5.83	1
11031	1234678-HpCDD	35822-46-9	908 B	0.300	5.83	1
11031	OCDD	3268-87-9	28,700 EB	0.232	11.7	1
11031	2378-TCDF	51207-31-9	0.324 J	0.0586	1.17	1
11031	12378-PeCDF	57117-41-6	1.18 JB	0.0321	5.83	1
11031	23478-PeCDF	57117-31-4	1.02 JB	0.0338	5.83	1
11031	123478-HxCDF	70648-26-9	3.75 JB	0.0676	5.83	1
11031	123678-HxCDF	57117-44-9	1.97 JB	0.0608	5.83	1
11031	123789-HxCDF	72918-21-9	1.57 JB	0.0776	5.83	1
11031	234678-HxCDF	60851-34-5	2.80 JB	0.0641	5.83	1
11031	1234678-HpCDF	67562-39-4	62.5 B	0.0522	5.83	1
11031	1234789-HpCDF	55673-89-7	3.64 JB	0.0775	5.83	1
11031	OCDF	39001-02-0	220 B	0.0734	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172129
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

DL159 SDG#: DX032-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-159-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SS-0.0-0.5

LLI Sample # SW 6172129
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:37

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL159 SDG#: DX032-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 19:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172130
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL183 SDG#: DX032-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-183-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172130
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL183 SDG#: DX032-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0466	U	0.0466	1.19	1
11031	12378-PeCDD	40321-76-4	0.398	JBQ	0.0747	5.94	1
11031	123478-HxCDD	39227-28-6	0.674	JBQ	0.104	5.94	1
11031	123678-HxCDD	57653-85-7	1.44	JQ	0.108	5.94	1
11031	123789-HxCDD	19408-74-3	1.37	JBQ	0.107	5.94	1
11031	1234678-HpCDD	35822-46-9	47.2	B	0.152	5.94	1
11031	OCDD	3268-87-9	730	B	0.176	11.9	1
11031	2378-TCDF	51207-31-9	0.0984	JQ	0.0732	1.19	1
11031	12378-PeCDF	57117-41-6	0.330	JB	0.0336	5.94	1
11031	23478-PeCDF	57117-31-4	0.279	JB	0.0368	5.94	1
11031	123478-HxCDF	70648-26-9	0.363	JBQ	0.0728	5.94	1
11031	123678-HxCDF	57117-44-9	0.436	JBQ	0.0669	5.94	1
11031	123789-HxCDF	72918-21-9	0.245	JB	0.0817	5.94	1
11031	234678-HxCDF	60851-34-5	0.392	JB	0.0698	5.94	1
11031	1234678-HpCDF	67562-39-4	8.12	B	0.0477	5.94	1
11031	1234789-HpCDF	55673-89-7	0.735	JBQ	0.0739	5.94	1
11031	OCDF	39001-02-0	24.5	B	0.0973	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-183-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172130
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL183 SDG#: DX032-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SS-0.0-0.5

LLI Sample # SW 6172130
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 10:25

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL183 SDG#: DX032-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 20:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-219-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172131
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL219 SDG#: DX032-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	22.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-219-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172131
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL219 SDG#: DX032-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.586 J	0.0684	1.29	1
11031	12378-PeCDD	40321-76-4	4.32 JB	0.196	6.44	1
11031	123478-HxCDD	39227-28-6	8.06 BQ	0.183	6.44	1
11031	123678-HxCDD	57653-85-7	51.4	0.194	6.44	1
11031	123789-HxCDD	19408-74-3	18.2 B	0.145	6.44	1
11031	1234678-HpCDD	35822-46-9	1,410 B	0.308	6.44	1
11031	OCDD	3268-87-9	14,500 EB	0.359	12.9	1
11031	2378-TCDF	51207-31-9	2.97	0.161	1.29	1
11650	2378-TCDF-Conf	51207-31-9	2.82 B	0.0664	1.29	1
11031	12378-PeCDF	57117-41-6	3.17 JB	0.0522	6.44	1
11031	23478-PeCDF	57117-31-4	5.86 JB	0.0588	6.44	1
11031	123478-HxCDF	70648-26-9	10.8 B	0.121	6.44	1
11031	123678-HxCDF	57117-44-9	5.20 JB	0.115	6.44	1
11031	123789-HxCDF	72918-21-9	4.06 JB	0.142	6.44	1
11031	234678-HxCDF	60851-34-5	9.01 B	0.126	6.44	1
11031	1234678-HpCDF	67562-39-4	183 B	0.0973	6.44	1
11031	1234789-HpCDF	55673-89-7	15.4 B	0.109	6.44	1
11031	OCDF	39001-02-0	412 B	0.0921	12.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	63	25 - 164
13C12-2378-TCDF-Conf	62	24 - 169
13C12-12378-PeCDD	57	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	60	26 - 123

*=This limit was used in the evaluation of the final result

Sample Description: **SL-219-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172131
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL219 SDG#: DX032-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	40	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-219-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-219-SA5B-SS-0.0-0.5

LLI Sample # SW 6172131
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 08:59

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL219 SDG#: DX032-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 21:31	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11014002	02/07/2011 11:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-225-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172132
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL225 SDG#: DX032-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	24.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-225-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172132
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL225 SDG#: DX032-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.97		0.163	1.33	1
11031	12378-PeCDD	40321-76-4	34.7	B	0.247	6.66	1
11031	123478-HxCDD	39227-28-6	85.8	B	0.270	6.66	1
11031	123678-HxCDD	57653-85-7	472		0.305	6.66	1
11031	123789-HxCDD	19408-74-3	186	B	0.288	6.66	1
11031	1234678-HpCDD	35822-46-9	10,900 EB		0.737	6.66	1
11031	OCDD	3268-87-9	123,000 EB		0.791	13.3	1
11031	2378-TCDF	51207-31-9	3.77		0.278	1.33	1
11650	2378-TCDF-Conf	51207-31-9	5.17	B	0.100	1.33	1
11031	12378-PeCDF	57117-41-6	7.82	B	0.0856	6.66	1
11031	23478-PeCDF	57117-31-4	12.7	B	0.0881	6.66	1
11031	123478-HxCDF	70648-26-9	31.8	B	0.245	6.66	1
11031	123678-HxCDF	57117-44-9	38.1	B	0.234	6.66	1
11031	123789-HxCDF	72918-21-9	11.2	B	0.184	6.66	1
11031	234678-HxCDF	60851-34-5	78.8	B	0.242	6.66	1
11031	1234678-HpCDF	67562-39-4	1,280	B	0.234	6.66	1
11031	1234789-HpCDF	55673-89-7	98.9	B	0.289	6.66	1
11031	OCDF	39001-02-0	4,090	B	0.205	13.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	82	24 - 169
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

J Estimated concentration between Estimated Detection Limit and Minimum Level

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-225-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172132
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL225 SDG#: DX032-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-225-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SS-0.0-0.5

LLI Sample # SW 6172132
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:35

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL225 SDG#: DX032-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 22:27	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11014002	02/07/2011 12:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-226-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172133
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL226 SDG#: DX032-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	18.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-226-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172133
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL226 SDG#: DX032-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.282 JQ	0.0831	1.23	1
11031	12378-PeCDD	40321-76-4	5.07 JBQ	0.227	6.16	1
11031	123478-HxCDD	39227-28-6	13.3 B	0.128	6.16	1
11031	123678-HxCDD	57653-85-7	65.7	0.133	6.16	1
11031	123789-HxCDD	19408-74-3	30.8 BQ	0.132	6.16	1
11031	1234678-HpCDD	35822-46-9	1,570 B	0.306	6.16	1
11031	OCDD	3268-87-9	13,100 EB	0.333	12.3	1
11031	2378-TCDF	51207-31-9	0.587 JQ	0.141	1.23	1
11031	12378-PeCDF	57117-41-6	1.89 JBQ	0.0564	6.16	1
11031	23478-PeCDF	57117-31-4	2.07 JB	0.0568	6.16	1
11031	123478-HxCDF	70648-26-9	5.28 JB	0.128	6.16	1
11031	123678-HxCDF	57117-44-9	6.93 B	0.121	6.16	1
11031	123789-HxCDF	72918-21-9	2.14 JBQ	0.142	6.16	1
11031	234678-HxCDF	60851-34-5	13.2 B	0.117	6.16	1
11031	1234678-HpCDF	67562-39-4	202 B	0.121	6.16	1
11031	1234789-HpCDF	55673-89-7	16.1 B	0.160	6.16	1
11031	OCDF	39001-02-0	558 B	0.112	12.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	51	25 - 164
13C12-12378-PeCDD	54	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	57	24 - 185
13C12-23478-PeCDF	54	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	54	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: **SL-226-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172133
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL226 SDG#: DX032-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-226-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-226-SA5B-SS-0.0-0.5

LLI Sample # SW 6172133
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:50

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL226 SDG#: DX032-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/29/2011 23:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-227-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172134
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL227 SDG#: DX032-13*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	17.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-227-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172134
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL227 SDG#: DX032-13*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0686	JQ	0.0363	1.21	1
11031	12378-PeCDD	40321-76-4	0.507	JB	0.0858	6.07	1
11031	123478-HxCDD	39227-28-6	1.10	JB	0.0837	6.07	1
11031	123678-HxCDD	57653-85-7	4.68	J	0.0874	6.07	1
11031	123789-HxCDD	19408-74-3	2.34	JB	0.0860	6.07	1
11031	1234678-HpCDD	35822-46-9	120	B	0.157	6.07	1
11031	OCDD	3268-87-9	1,510	B	0.193	12.1	1
11031	2378-TCDF	51207-31-9	0.248	JQ	0.0835	1.21	1
11031	12378-PeCDF	57117-41-6	1.77	JB	0.0375	6.07	1
11031	23478-PeCDF	57117-31-4	0.551	JB	0.0411	6.07	1
11031	123478-HxCDF	70648-26-9	1.32	JB	0.114	6.07	1
11031	123678-HxCDF	57117-44-9	2.46	JB	0.100	6.07	1
11031	123789-HxCDF	72918-21-9	0.422	JBQ	0.136	6.07	1
11031	234678-HxCDF	60851-34-5	4.85	JB	0.106	6.07	1
11031	1234678-HpCDF	67562-39-4	14.9	B	0.0813	6.07	1
11031	1234789-HpCDF	55673-89-7	2.11	JBQ	0.128	6.07	1
11031	OCDF	39001-02-0	31.0	B	0.107	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-227-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172134
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL227 SDG#: DX032-13*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-227-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SS-0.0-0.5

LLI Sample # SW 6172134
LLI Group # 1226687
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/21/2010 09:38

Submitted: 12/22/2010 10:55
Reported: 02/21/2011 17:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL227 SDG#: DX032-13*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11014002	01/30/2011 00:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11014002	01/14/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162402A	01/07/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226687
Reported: 02/21/11 at 05:41 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11007162402A	Sample number(s): 6172120,6172124-6172129,6172131-6172134								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11014162401A	Sample number(s): 6172122-6172123,6172130								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11014002	Sample number(s): 6172120,6172122-6172134								
2378-TCDD	0.0202 U	0.0202	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0303 J	0.0249	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0193 J	0.0164	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0167 U	0.0167	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0329 J	0.0165	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.109 J	0.0286	5.00	ng/kg	100		70-140		
OCDD	0.350 J	0.0293	10.0	ng/kg	100		78-144		
2378-TCDF	0.0157 U	0.0157	1.00	ng/kg	105		75-158		
2378-TCDF-Conf	0.0174 J	0.00830	1.00	ng/kg					
12378-PeCDF	0.0279 J	0.00800	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0691 J	0.00850	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0381 J	0.0121	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0306 J	0.0110	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0346 J	0.0133	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0381 J	0.0113	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.0701 J	0.00940	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.0445 J	0.0149	5.00	ng/kg	102		78-138		
OCDF	0.214 J	0.0338	10.0	ng/kg	102		63-170		
Batch number: 11018001	Sample number(s): 6172121								
2378-TCDD	0.196 J	0.0833	2.00	pg/l	85		67-158		
12378-PeCDD	0.436 J	0.126	10.0	pg/l	89		70-142		
123478-HxCDD	0.582 J	0.115	10.0	pg/l	93		70-164		
123678-HxCDD	0.636 J	0.118	10.0	pg/l	91		76-134		
123789-HxCDD	0.695 J	0.115	10.0	pg/l	93		64-162		
1234678-HpCDD	2.11 J	0.199	10.0	pg/l	97		70-140		
OCDD	7.03 J	0.430	20.0	pg/l	108		78-144		
2378-TCDF	0.133 J	0.0727	2.00	pg/l	86		75-158		
12378-PeCDF	0.316 J	0.0483	10.0	pg/l	90		80-134		
23478-PeCDF	0.610 J	0.0452	10.0	pg/l	88		68-160		
123478-HxCDF	0.509 J	0.0809	10.0	pg/l	91		72-134		
123678-HxCDF	0.532 J	0.0749	10.0	pg/l	89		84-130		
123789-HxCDF	0.680 J	0.0917	10.0	pg/l	88		78-130		
234678-HxCDF	0.551 J	0.0781	10.0	pg/l	89		70-156		
1234678-HpCDF	1.21 J	0.0929	10.0	pg/l	96		82-122		
1234789-HpCDF	0.676 J	0.129	10.0	pg/l	95		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226687
Reported: 02/21/11 at 05:41 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	3.35	J	0.351	20.0	pg/l	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11007162402A	Sample number(s): 6172120,6172124-6172129,6172131-6172134					BKG: P172107			
28a Moisture Content by 160.3						8.1	8.1	1	20
Batch number: 11014162401A	Sample number(s): 6172122-6172123,6172130					BKG: P182836			
28a Moisture Content by 160.3						12.3	13.1	6	20
Batch number: 11014002	Sample number(s): 6172120,6172122-6172134 UNSPK: 6172124								
2378-TCDD	92	99	67-158	7	25				
12378-PeCDD	100	99	70-142	1	25				
123478-HxCDD	97	97	70-164	0	25				
123678-HxCDD	99	100	76-134	1	25				
123789-HxCDD	97	98	64-162	1	25				
1234678-HpCDD	87	164*	70-140	56*	25				
OCDD	66*	625*	78-144	145*	25				
2378-TCDF	100	100	75-158	0	25				
12378-PeCDF	96	96	80-134	0	25				
23478-PeCDF	96	96	68-160	0	25				
123478-HxCDF	97	100	72-134	2	25				
123678-HxCDF	97	99	84-130	2	25				
123789-HxCDF	97	98	78-130	1	25				
234678-HxCDF	99	98	70-156	1	25				
1234678-HpCDF	97	102	82-122	5	25				
1234789-HpCDF	98	100	78-138	2	25				
OCDF	99	109	63-170	9	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11014002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6172120	69	66	68	74	68	64
6172122	77	72	79	86	78	70
6172123	69	68	65	68	66	62
6172124	72	70	74	81	73	66
6172125	71	67	70	75	69	65
6172126	86	86	89	99	89	80
6172127	72	74	78	89	78	73
6172128	76	70	73	80	74	70
6172129	74	66	71	79	72	67

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226687
Reported: 02/21/11 at 05:41 PM

Surrogate Quality Control

6172130	68	58	69	73	68	62
6172131	63	57	59	60	62	40
6172132	77	71	79	77	76	93
6172133	51	54	56	58	56	54
6172134	69	62	69	77	69	62
Blank	74	71	80	87	80	75
MS	71	67	70	75	69	65
MSD	86	86	89	99	89	80
OPR	73	68	76	84	76	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6172120	79	65	63	79	66	71
6172122	89	73	72	89	74	85
6172123	67	64	66	84	67	68
6172124	88	65	62	85	70	80
6172125	79	65	63	81	67	74
6172126	104	81	80	100	86	96
6172127	91	73	71	82	73	83
6172128	86	69	65	86	70	77
6172129	83	68	71	84	69	78
6172130	67	54	43	80	59	72
6172131	56	59	57	67	57	60
6172132	73	69	68	87	72	80
6172133	60	54	56	86	54	60
6172134	78	58	53	79	63	76
Blank	93	72	70	92	73	87
MS	79	65	63	81	67	74
MSD	104	81	80	100	86	96
OPR	88	67	65	90	70	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6172120	73	72	74	74	67	71
6172122	82	81	83	82	79	82
6172123	67	66	66	69	69	73
6172124	78	77	77	76	71	77
6172125	73	73	74	72	68	72
6172126	94	94	94	95	87	94
6172127	80	81	82	83	75	88
6172128	78	77	77	76	74	78
6172129	79	78	81	107	74	74
6172130	70	71	64	58	71	65
6172131	59	63	58	58	64	65
6172132	77	79	77	79	80	76
6172133	60	59	60	63	54	57
6172134	76	75	70	63	69	72
Blank	86	88	84	83	76	80
MS	73	73	74	72	68	72
MSD	94	94	94	95	87	94
OPR	80	79	78	77	71	75

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226687
Reported: 02/21/11 at 05:41 PM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6172120						
6172122						
6172123						
6172124						
6172125						
6172126						
6172127						
6172128						
6172129						
6172130						
6172131	62					
6172132	82					
6172133						
6172134						
Blank	76					
MS						
MSD						
OPR						

Limits: 24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11018001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6172121	64	65	59	62	62	62
Blank	89	94	89	90	90	86
OPR	69	76	76	75	75	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6172121	52	48	34	88	62	61
Blank	71	62	37	96	88	89
OPR	59	50	28	82	73	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6172121	61	61	52	38	70	65
Blank	86	86	66	41	95	93
OPR	72	71	53	30	75	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1226687 6172120-34

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hexchrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	*pH EPA 9045C	**Terpheryls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP02-SIV-QC-122110	12.21.10	0952	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										SEDIMENT DUP
DUP15-SA5B-QC-122110	12.21.10	1052	soil	none	2 16 oz. jars			X			X	X	X	X	X	X														SUBSURFACE DUP
DUP15-SA5B-QC-122110	12.21.10	1052	soil	none	4 Encore Samplers	X	X																							SUBSURFACE DUP
EB07-SA5B-122110	12.21.10	1212	water	none	6-1 liter ambers			X							X	X			X	X										surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	none	1-500 ml poly								X	X			X													surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	HNO3	1-500 ml poly						X																			surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	HCl	5 40-mL VOA vials				X																				X	surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	none	4 40 Ml VOA vials																X							X		surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	none	4 1L ambers					X													X	X			X			surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	none	1 250 mL glass bottle																X									surface tool rinsate
EB07-SA5B-122110	12.21.10	1212	water	NaOH	1 500 mL poly																				X					surface tool rinsate
SED-002-SIV-SD-0.0-0.5	12.21.10	0950	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-015-SIV-SD-0.0-0.5	12.21.10	1305	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-036-SIV-SD-0.0-0.5	12.21.10	1145	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-038-SIV-SD-0.0-0.5	12.21.10	1515	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SED-039-SIV-SD-0.0-0.5	12.21.10	1055	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-006-SA5B-SB-4.0-5.0	12.21.10	1529	soil	none	4 16 oz Jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-006-SA5B-SB-4.5	12.21.10	1525	soil	none	5 Encore Samplers	X	X		X																					
SL-006-SA5B-SB-5.0-6.0	12.21.10	1539	soil	none	4 16 oz Jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	sample appears to be red concrete
SL-006-SA5B-SB-5.5	12.21.10	1535	soil	none	5 Encore Samplers	X	X		X																				sample appears to be red
SL-046-SA5B-SB-4.0-5.0MS	12.21.10	1047	soil	none	6 16 oz. Jars			X		X	X	X	X	X	X	X													subsurface MS/MSD
SL-046-SA5B-SB-4.5MS	12.21.10	1041	soil	none	12 Encore Samplers	X	X																						subsurface MS/MSD
SL-046-SA5B-SB-9.0-10.0	12.21.10	1054	soil	none	2 16 oz. jars			X		X	X	X	X	X	X	X													
SL-047-SA5B-SB-4.0-5.0	12.21.10	1254	soil	none	2 16 oz. jars			X		X	X	X	X	X	X	X													
SL-047-SA5B-SB-4.5	12.21.10	1250	soil	none	4 Encore Samplers	X	X																						
SL-159-SA5B-SS-0.0-0.5	12.21.10	1037	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-183-SA5B-SS-0.0-0.5	12.21.10	1025	soil	none	2 x 16 oz. Jars & 1 6" sleeve			X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
SL-183-SA5B-SS-0.0-0.5	12.21.10	1025	soil	none	5 Encore Samplers	X	X		X																				
SL-219-SA5B-SS-0.0-0.5	12.21.10	0859	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-225-SA5B-SS-0.0-0.5	12.21.10	0935	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-226-SA5B-SS-0.0-0.5	12.21.10	0950	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
SL-227-SA5B-SS-0.0-0.5	12.21.10	0938	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X			X	X									
TB-122110	12.21.10	1212	water	HCl	4-40 mL clear VOA vials	X	X		X																					trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.21.10 1630		12/22/10 1056	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill #s:		No. of coolers = 4
		Tracking Numbers 8695 1431 7903, ...7914, ...7925, ...7936		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/23/2010
Group Number: 1226926
SDG: DE051
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP10-SA5B-QC-122210 Soil	6173160
EB08-SA5B-122210 Water	6173161
FB06-SA5B-122210 Water	6173162
SED-010-SIV-SD-0.0-0.5 Soil	6173163
SL-101-SA5B-SS-0.0-0.5 Soil	6173164
SL-117-SA5B-SS-0.0-0.5 Soil	6173165
SL-118-SA5B-SS-0.0-0.5 Soil	6173166
SL-100-SA5B-SS-0.0-0.5 Soil	6173167
SL-100-SA5B-SS-0.0-0.5MS Soil	6173168
SL-100-SA5B-SS-0.0-0.5MSD Soil	6173169
SL-100-SA5B-SS-0.0-0.5DUP Soil	6173170
SL-114-SA5B-SS-0.0-0.5 Soil	6173171
SL-102-SA5B-SS-0.0-0.5 Soil	6173172
SL-024-SA5B-SS-0.0-0.5 Soil	6173173
SL-157-SA5B-SB-4.0-5.0 Soil	6173174
SL-158-SA5B-SB-4.0-5.0 Soil	6173175
SL-157-SA5B-SB-9.0-10.0 Soil	6173176
SL-145-SA5B-SB-4.0-5.0 Soil	6173177
TB-122210 Water	6173178

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Martha L. Seidel
Senior Chemist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP10-SA5B-QC-122210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173160
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP10 SDG#: DE051-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP10-SA5B-QC-122210 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173160
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP10 SDG#: DE051-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	2.2		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	2.6		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.97	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	2.7		0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.7	J	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	100	U	100	290		1
10401	MCPP (Mecoprop)	93-65-2	430		87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/kg. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP10-SA5B-QC-122210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173160
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP10 SDG#: DE051-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	2,4-DB.							
	Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.16	U	0.16	0.39		1
01363	p,p-DDE	72-55-9	0.076	U	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.29	U	0.29	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.090	U	0.090	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.044	U	0.044	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	6.4		0.38	2.0		1
10225	PCB-1260	11096-82-5	2.5		0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.66	22.5		1
07914	Boron	7440-42-8	4.36	J	1.00	5.62		1
01650	Calcium	7440-70-2	3,070		6.90	22.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP10-SA5B-QC-122210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173160
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP10 SDG#: DE051-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	18,600		5.30	22.5		1
01656	Lithium	7439-93-2	21.0		0.25	2.2		1
01657	Magnesium	7439-95-4	4,260		2.86	11.2		1
06958	Manganese	7439-96-5	261		0.0877	0.562		1
10145	Phosphorus	7723-14-0	361		0.630	11.2		1
01662	Potassium	7440-09-7	2,800		20.2	56.2		1
01667	Sodium	7440-23-5	92.3	J	42.0	112		1
07968	Strontium	7440-24-6	18.7		0.0697	0.562		1
06969	Tin	7440-31-5	2.22	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,120		0.427	1.12		1
10146	Zirconium	7440-67-7	1.88	J	0.945	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0960	J	0.0695	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.90		0.0695	0.463		2
06126	Barium	7440-39-3	98.1		0.125	0.463		2
06127	Beryllium	7440-41-7	0.467		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.133		0.0417	0.116		2
06131	Chromium	7440-47-3	16.6		0.139	0.463		2
06132	Cobalt	7440-48-4	5.52		0.0232	0.116		2
06133	Copper	7440-50-8	11.2		0.0735	0.446		2
06135	Lead	7439-92-1	5.68		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.615		0.0579	0.116		2
06139	Nickel	7440-02-0	11.8		0.116	0.463		2
06141	Selenium	7782-49-2	0.121	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0302	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.259		0.0348	0.116		2
06148	Vanadium	7440-62-2	39.4		0.0245	0.111		2
06149	Zinc	7440-66-6	56.2		0.649	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0128	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	429		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP10-SA5B-QC-122210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173160
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP10 SDG#: DE051-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.17	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 02:15	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 12:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 04:53	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 18:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 05:52	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP10-SA5B-QC-122210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173160
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP10 SDG#: DE051-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 09:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 13:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 13:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 13:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 13:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201A	01/14/2011 12:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203A	01/14/2011 20:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 19:21	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201A	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203A	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102B	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402B	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB08-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5B-122210

LLI Sample # WW 6173161
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 11:45

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-08 SDG#: DE051-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	64		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB08-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5B-122210

LLI Sample # WW 6173161
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 11:45

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-08 SDG#: DE051-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.067	J	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.40	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.098	J	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.25	J	0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053		1
10137	Naphthalene	91-20-3	0.034	J	0.011	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	0.083	J	0.053	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1

The QC limits for n-nitrosodimethylamine and dimethylphthalate are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:
butylbenzylphthalate .056 ug/l
bis(2-ethylhexyl)phthalate .056 ug/l
di-n-octylphthalate .082 ug/l
These blank values were not subtracted from the analytical results.

Reporting limits were raised due to limited sample volume.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.51		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.082	U	0.082	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.51		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.51		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB08-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5B-122210

LLI Sample # WW 6173161
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 11:45

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-08 SDG#: DE051-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	51	U	51	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.051		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.051		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.52		1
00177	p,p-DDD	72-54-8	0.0052	U	0.0052	0.021		1
00177	p,p-DDE	72-55-9	0.0052	U	0.0052	0.021		1
00177	p,p-DDT	50-29-3	0.0052	U	0.0052	0.021		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0055	U	0.0055	0.021		1
00177	Endosulfan I	959-98-8	0.0045	U	0.0045	0.010		1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0060	U	0.0060	0.021		1
00177	Endrin	72-20-8	0.0084	U	0.0084	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0052	U	0.0052	0.021		1
00177	Heptachlor	76-44-8	0.0027	U	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031	U	0.031	0.10		1
00177	Mirex	2385-85-5	0.088	U	0.088	0.26		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0640	J	0.0522	0.200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB08-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5B-122210

LLI Sample # WW 6173161
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 11:45

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-08 SDG#: DE051-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000055 J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB08-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5B-122210

LLI Sample # WW 6173161
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 11:45

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-08 SDG#: DE051-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10362WAE026	01/20/2011 14:57	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362WAC026	01/06/2011 13:09	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10362WAE026	12/29/2010 00:30	Sherry L Morrow	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10362WAC026	12/28/2010 16:15	Timothy J Attenberger	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103620008A	12/31/2010 01:07	Michele D Hamilton	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103570023A	01/14/2011 00:54	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103570024A	01/06/2011 16:49	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103570024A	12/26/2010 12:20	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103570023A	12/26/2010 12:20	Karen L Beyer	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103620008A	12/28/2010 20:30	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
08014	Boron	SW-846 6010B	1	103651848001	01/05/2011 18:36	John P Hook	1
01750	Calcium	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
01754	Iron	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
01756	Lithium	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
07058	Manganese	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
01762	Potassium	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
01767	Sodium	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
08068	Strontium	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
07069	Tin	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
07070	Titanium	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103651848001	01/04/2011 18:04	John P Hook	1
06024	Antimony	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103656050001D	01/06/2011 08:26	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103656050001C	01/06/2011 08:26	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103656050001B	01/06/2011 08:26	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103656050001A	01/06/2011 08:26	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103575713005	12/28/2010 15:39	Parker D Lindstrom	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB08-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5B-122210

LLI Sample # WW 6173161
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 11:45

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-08 SDG#: DE051-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103651848001	01/04/2011 08:43	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103656050001	01/04/2011 08:40	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103575713005	12/23/2010 15:50	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10364196902A	12/31/2010 00:43	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10363658701A	12/29/2010 15:17	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10357113001A	12/23/2010 13:52	Nicole M Kepley	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: FB06-SA5B-122210 Water
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	1	J	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.82		0.522	1.04		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.95 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	57		1
04678	Benzoic acid	65-85-0	6	U	6	14		1
04678	Benzyl alcohol	100-51-6	5	U	5	14		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	14		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	14		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	14		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.065	J	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.069	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.052	U	0.052	1.0		1

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Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.22	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.017	J	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.022	J	0.010	0.052		1
10137	Naphthalene	91-20-3	0.29		0.010	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.087	J	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1

The QC limits for n-nitrosodimethylamine and dimethylphthalate are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:
butylbenzylphthalate .056 ug/l
bis(2-ethylhexyl)phthalate .056 ug/l
di-n-octylphthalate .082 ug/l
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.50		1
10407	Dalapon	75-99-0	0.25	U	0.25	1.2		1
10407	2,4-DB	94-82-6	0.30	U	0.30	1.0		1
10407	Dicamba	1918-00-9	0.080	U	0.080	0.30		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.50		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.50		1
10407	MCPA	94-74-6	300	U	300	1,000		1
10407	MCPP	93-65-2	50	U	50	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.050		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.050		1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	17b Formaldehyde by 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010		1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.010		1
00177	Beta BHC	319-85-7	0.0040	U	0.0040	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.50		1
00177	p,p-DDD	72-54-8	0.0050	U	0.0050	0.020		1
00177	p,p-DDE	72-55-9	0.0050	U	0.0050	0.020		1
00177	p,p-DDT	50-29-3	0.0050	U	0.0050	0.020		1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.010		1
00177	Dieldrin	60-57-1	0.0053	U	0.0053	0.020		1
00177	Endosulfan I	959-98-8	0.0043	U	0.0043	0.010		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0058	U	0.0058	0.020		1
00177	Endrin	72-20-8	0.0081	U	0.0081	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.10		1
00177	Endrin Ketone	53494-70-5	0.0050	U	0.0050	0.020		1
00177	Heptachlor	76-44-8	0.0026	U	0.0026	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.010		1

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Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Methoxychlor	72-43-5	0.030	U	0.030	0.10		1
00177	Mirex	2385-85-5	0.084	U	0.084	0.25		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.60		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	14	U	14	100		1
08278	Ethylene glycol	107-21-1	14	U	14	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.084	U	0.084	0.26		1
10319	o-Terphenyl	84-15-1	0.084	U	0.084	0.26		1
10319	p-Terphenyl	92-94-4	0.084	U	0.084	0.26		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038	U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	21b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103631AA	12/29/2010	04:41	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103562AB	12/28/2010	12:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103562AB	12/28/2010	12:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103631AA	12/29/2010	04:41	Frank A Valla, Jr	1
10962	19b NDMA by 1625C	EPA 1625C	1	10362WAA026	01/06/2011	06:49	Timothy J Trees	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10362WAE026	01/20/2011	15:23	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10362WAC026	01/06/2011	13:42	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	10362WAE026	12/29/2010	00:30	Sherry L Morrow	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10362WAC026	12/28/2010	16:15	Timothy J Attenberger	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	10362WAA026	12/28/2010	12:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10363B20A	12/29/2010	20:35	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10363B20A	12/29/2010	20:35	Marie D John	1
10131	20b Energetics by 8330A	SW-846 8330A	1	103610006A	12/28/2010	19:06	Michele D Hamilton	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	103560024A	12/23/2010	20:05	Michele D Hamilton	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103620008A	12/31/2010	01:34	Michele D Hamilton	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103570023A	01/14/2011	01:06	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103570024A	01/06/2011	17:08	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103570024A	12/26/2010	12:20	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103570023A	12/26/2010	12:20	Karen L Beyer	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103620008A	12/28/2010	20:30	Elaine F Stoltzfus	1
01013	Formaldehyde Extraction	SW-846 8315A	1	103560024A	12/23/2010	15:00	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	103610006A	12/27/2010	16:30	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: FB06-SA5B-122210 Water
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620004A	12/30/2010 17:13	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	103630029A	12/29/2010 21:34	Dustin A Underkoffler	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	103640032A	12/31/2010 17:03	Robert Brown	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	103620021A	01/04/2011 23:50	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	103620004A	12/28/2010 16:15	Timothy J Attenberger	1
10304	Terphenyls water prep	SW-846 3510C	1	103620021A	12/29/2010 00:30	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
08014	Boron	SW-846 6010B	1	103651848001	01/05/2011 18:39	John P Hook	1
01750	Calcium	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
01754	Iron	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
01756	Lithium	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
07058	Manganese	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
01762	Potassium	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
01767	Sodium	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
08068	Strontium	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
07069	Tin	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
07070	Titanium	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
10144	Zirconium	SW-846 6010B	1	103651848001	01/04/2011 18:07	John P Hook	1
06024	Antimony	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103656050001D	01/06/2011 08:29	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103656050001C	01/06/2011 08:29	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103656050001B	01/06/2011 08:29	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103656050001A	01/06/2011 08:29	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103575713005	12/28/2010 15:41	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103651848001	01/04/2011 08:43	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103656050001	01/04/2011 08:40	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103575713005	12/23/2010 15:50	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10356196903A	12/23/2010 16:31	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173162
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-06 SDG#: DE051-03FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	10356196903A	12/23/2010 16:31	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10363658701A	12/29/2010 15:41	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10357113001A	12/23/2010 14:05	Nicole M Kepley	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	10365117102A	12/31/2010 19:34	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	10365117102A	12/31/2010 10:40	Carolyn M Mastropietro	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-010-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173163
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DE051-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	810	U	810	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	130	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-010-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173163
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DE051-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	1.1	J	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	1.1	J	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	1.0	J	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	1.8	J	0.81	2.0		1
10138	Pyrene	129-00-0	1.0	J	0.81	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.4		1
10401	Dalapon	75-99-0	5.4	U	5.4	11		1
10401	2,4-DB	94-82-6	0.76	U	0.76	2.1		1
10401	Dicamba	1918-00-9	0.74	U	0.74	0.74		1
10401	Dinoseb	88-85-7	0.98	U	0.98	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.98	U	0.98	2.1		1
10401	MCPA	94-74-6	290	U	290	310		1
10401	MCPP (Mecoprop)	93-65-2	92	U	92	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.092	U	0.092	0.21		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-010-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173163
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DE051-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	compounds were affected: MCPA.							
	Due to interfering peaks on the chromatogram, the values reported for dicamba represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.081	U	0.081	0.20		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.20		1
01363	Beta BHC	319-85-7	0.073	U	0.073	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.20		1
01363	Chlordane	57-74-9	3.7	U	3.7	4.2		1
01363	p,p-DDD	72-54-8	0.22	U	0.22	0.42		1
01363	p,p-DDE	72-55-9	1.1		0.081	0.42		1
01363	p,p-DDT	50-29-3	0.90	U	0.90	0.90		1
01363	Delta BHC	319-86-8	0.11	U	0.11	0.20		1
01363	Dieldrin	60-57-1	0.31	U	0.31	0.42		1
01363	Endosulfan I	959-98-8	0.21	U	0.21	0.21		1
01363	Endosulfan II	33213-65-9	0.44	U	0.44	0.44		1
01363	Endosulfan Sulfate	1031-07-8	0.61	U	0.61	0.61		1
01363	Endrin	72-20-8	0.081	U	0.081	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	0.42		1
01363	Endrin Ketone	53494-70-5	0.30	U	0.30	0.42		1
01363	Heptachlor	76-44-8	0.073	U	0.073	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.067	U	0.067	0.20		1
01363	Methoxychlor	72-43-5	1.3	U	1.3	2.0		1
01363	Mirex	2385-85-5	0.50	U	0.50	0.50		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.61	U	0.61	2.1		1
10225	PCB-1232	11141-16-5	0.63	U	0.63	2.1		1
10225	PCB-1242	53469-21-9	0.61	U	0.61	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	2.0	J	0.40	2.1		1
10225	PCB-1260	11096-82-5	1.2	J	0.40	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,910		5.96	23.7		1
07914	Boron	7440-42-8	6.51		1.06	5.93		1
01650	Calcium	7440-70-2	4,260		7.27	23.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-010-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173163
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DE051-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	15,400		5.58	23.7		1
01656	Lithium	7439-93-2	23.2		0.26	2.4		1
01657	Magnesium	7439-95-4	3,720		3.01	11.9		1
06958	Manganese	7439-96-5	301		0.0925	0.593		1
10145	Phosphorus	7723-14-0	378		0.664	11.9		1
01662	Potassium	7440-09-7	2,890		21.3	59.3		1
01667	Sodium	7440-23-5	56.7	J	44.2	119		1
07968	Strontium	7440-24-6	13.2		0.0735	0.593		1
06969	Tin	7440-31-5	2.40	J	1.19	11.9		1
06970	Titanium	7440-32-6	873		0.450	1.19		1
10146	Zirconium	7440-67-7	0.996	U	0.996	5.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0698	U	0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.04		0.0698	0.465		2
06126	Barium	7440-39-3	72.5		0.126	0.465		2
06127	Beryllium	7440-41-7	0.407		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.152		0.0419	0.116		2
06131	Chromium	7440-47-3	11.8		0.140	0.465		2
06132	Cobalt	7440-48-4	4.17		0.0233	0.116		2
06133	Copper	7440-50-8	5.42		0.0775	0.470		2
06135	Lead	7439-92-1	8.58		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.276		0.0581	0.116		2
06139	Nickel	7440-02-0	8.35		0.116	0.465		2
06141	Selenium	7782-49-2	0.137	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0232	J	0.0140	0.116		2
06145	Thallium	7440-28-0	0.247		0.0349	0.116		2
06148	Vanadium	7440-62-2	23.9		0.0258	0.117		2
06149	Zinc	7440-66-6	58.0		0.651	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093	J	0.0035	0.122		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.98	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	434		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-010-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173163
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DE051-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	18.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 02:50	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 12:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 05:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 18:22	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 06:11	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SED-010-SIV-SD-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173163
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DE051-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:09	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 13:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 13:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 13:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 13:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201A	01/14/2011 12:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203A	01/14/2011 21:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 19:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201A	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203A	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102B	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402B	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-101-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173164
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL101 SDG#: DE051-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	58	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-101-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173164
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL101 SDG#: DE051-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	J	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.67	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	1.6	J	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.91	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.6	J	0.79	2.0		1
10138	Pyrene	129-00-0	1.2	J	0.79	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	180	J	90	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1

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Sample Description: SL-101-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173164
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL101 SDG#: DE051-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.078	U	0.078	0.40		1
01363	p,p-DDT	50-29-3	0.078	U	0.078	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.20	J	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,700		5.70	22.7		1
07914	Boron	7440-42-8	5.41	J	1.01	5.66		1
01650	Calcium	7440-70-2	3,030		6.94	22.7		1
01654	Iron	7439-89-6	25,400		5.33	22.7		1
01656	Lithium	7439-93-2	23.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,660		2.88	11.3		1
06958	Manganese	7439-96-5	547		0.0883	0.566		1
10145	Phosphorus	7723-14-0	256		0.634	11.3		1
01662	Potassium	7440-09-7	3,240		20.4	56.6		1

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Sample Description: **SL-101-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173164
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL101 SDG#: DE051-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	162		42.2	113		1
07968	Strontium	7440-24-6	28.5		0.0702	0.566		1
06969	Tin	7440-31-5	2.50	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,330		0.430	1.13		1
10146	Zirconium	7440-67-7	2.40	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0982	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.58		0.0680	0.453		2
06126	Barium	7440-39-3	196		0.306	1.13		5
06127	Beryllium	7440-41-7	0.947		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.485		0.0408	0.113		2
06131	Chromium	7440-47-3	25.8		0.136	0.453		2
06132	Cobalt	7440-48-4	13.3		0.0227	0.113		2
06133	Copper	7440-50-8	13.2		0.0770	0.466		2
06135	Lead	7439-92-1	10.5		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.888		0.0566	0.113		2
06139	Nickel	7440-02-0	21.2		0.113	0.453		2
06141	Selenium	7782-49-2	0.210	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0532	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.434		0.0340	0.113		2
06148	Vanadium	7440-62-2	46.6		0.0257	0.117		2
06149	Zinc	7440-66-6	74.8		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	478		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.08		0.0100	0.0100		1

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Sample Description: SL-101-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173164
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL101 SDG#: DE051-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	15.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011	03:25	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011	13:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010	06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011	05:48	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011	16:38	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011	18:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011	06:30	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011	06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010	06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011	23:30	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011	09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010	10:13	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-101-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173164
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL101 SDG#: DE051-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:13	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/11/2011 13:19	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201A	01/14/2011 12:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203A	01/14/2011 21:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 19:46	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201A	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203A	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182102B	12/27/2010 12:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039402B	12/27/2010 12:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.84
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.84
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.84
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.84
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.84
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.84
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.84
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.84
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.84
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.84
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.84
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.84
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.84
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.84
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.84
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.84
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.84
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.84
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.84
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.84
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.84
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.84
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.84
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.84
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.84
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.84
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.84
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.84
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.84
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.84
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.84
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.84
06192	Methylene Chloride	75-09-2	0.44	J	0.25	4.2		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.84

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.84
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.84
06192	Toluene	108-88-3	0.15	J	0.08	4.2		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.84
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.84
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.84
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.84
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.84
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		21.55
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	369		103	207		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	620		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	210	U	210	620		1
04688	Benzyl alcohol	100-51-6	210	U	210	620		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210		1
04688	4-Chloroaniline	106-47-8	83	U	83	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620		1
04688	2,4-Dinitrophenol	51-28-5	830	U	830	2,500		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	21	410		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	41	U	41	210		1
04688	4-Methylphenol	106-44-5	41	U	41	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	41	U	41	210		1
04688	4-Nitroaniline	100-01-6	83	U	83	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	620		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	620		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.8		0.83	2.1		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.1		1
10138	Anthracene	120-12-7	6.5		0.41	2.1		1
10138	Benzo(a)anthracene	56-55-3	13		0.83	2.1		1
10138	Benzo(a)pyrene	50-32-8	11		0.83	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	13		0.83	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	2.7		0.83	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	8.2		0.83	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	8.4	J	7.4	22		1
10138	Chrysene	218-01-9	14		0.41	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.98	J	0.83	2.1		1
10138	Diethylphthalate	84-66-2	11	J	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Fluoranthene	206-44-0	28		0.83	2.1		1
10138	Fluorene	86-73-7	3.3		0.83	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.1		0.83	2.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.83	U	0.83	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.95	J	0.83	2.1		1
10138	Naphthalene	91-20-3	2.1	J	0.83	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.83	U	0.83	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	27		0.83	2.1		1
10138	Pyrene	129-00-0	25		0.83	2.1		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		20.7
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	93	U	93	190	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	62	U	62	190	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	370	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	370	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	62	U	62	190	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	62	U	62	190	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	62	U	62	190	10000000	1
10132	HMX	2691-41-0	190	U	190	470	10000000	1
10132	Nitrobenzene	98-95-3	62	U	62	190	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,700	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	190	10000000	1
10132	3-Nitrotoluene	99-08-1	160	U	160	190	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	190	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,700	10000000	1
10132	RDX	121-82-4	78	U	78	190	10000000	1
10132	Tetryl	479-45-8	95	U	95	190	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	62	U	62	190	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	62	U	62	190	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5		1
10401	Dalapon	75-99-0	5.5	U	5.5	11		1
10401	2,4-DB	94-82-6	1.1	U	1.1	2.1		1
10401	Dicamba	1918-00-9	3.1		0.50	1.5		1
10401	Dinoseb	88-85-7	0.99	U	0.99	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.0	J	0.99	2.1		1
10401	MCPA	94-74-6	240	J	94	310		1
10401	MCPP (Mecoprop)	93-65-2	93	U	93	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.36	U	0.36	0.36		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/l. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for 2,4-DB.
Due to interfering peaks on the chromatogram, the values reported for 2,4,5-TP and 2,4-DB represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	740	U	740	1,900		1

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.21		1
01363	Beta BHC	319-85-7	0.074	U	0.074	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.21		1
01363	Chlordane	57-74-9	0.99	U	0.99	4.2		1
01363	p,p-DDD	72-54-8	0.082	U	0.082	0.42		1
01363	p,p-DDE	72-55-9	0.082	U	0.082	0.42		1
01363	p,p-DDT	50-29-3	0.10	J	0.082	0.42		1
01363	Delta BHC	319-86-8	0.045	U	0.045	0.21		1
01363	Dieldrin	60-57-1	0.082	U	0.082	0.42		1
01363	Endosulfan I	959-98-8	0.055	U	0.055	0.21		1
01363	Endosulfan II	33213-65-9	0.082	U	0.082	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.082	U	0.082	0.42		1
01363	Endrin	72-20-8	0.082	U	0.082	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.082	U	0.082	0.42		1
01363	Endrin Ketone	53494-70-5	0.082	U	0.082	0.42		1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.21		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1		1
01363	Mirex	2385-85-5	0.13	J	0.082	0.42		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

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Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.62	U	0.62	2.1		1
10225	PCB-1232	11141-16-5	0.65	U	0.65	2.1		1
10225	PCB-1242	53469-21-9	0.62	U	0.62	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	0.41	U	0.41	2.1		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.50	U	0.50	1.5		1
10199	EFH (C15-C20)	n.a.	0.72	J	0.50	1.5		1
10199	EFH (C21-C30)	n.a.	8.7		0.50	1.5		1
10199	EFH (C30 - C40)	n.a.	40		0.50	1.5		1
10199	EFH (C8-C11)	n.a.	0.50	U	0.50	1.5		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	620		1
10501	Isopropanol	67-63-0	120	U	120	620		1
10501	Methanol	67-56-1	120	U	120	620		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	16		1
08283	Ethylene glycol	107-21-1	6.2	U	6.2	16		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	16		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9	U	1.9	4.3		1
10318	o-Terphenyl	84-15-1	1.9	U	1.9	4.3		1
10318	p-Terphenyl	92-94-4	1.9	U	1.9	4.3		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,200		6.18	24.6		1
07914	Boron	7440-42-8	11.4		1.09	6.14		1
01650	Calcium	7440-70-2	71,800		37.7	123		5
01654	Iron	7439-89-6	28,500		5.79	24.6		1
01656	Lithium	7439-93-2	24.2		0.27	2.5		1
01657	Magnesium	7439-95-4	7,560		3.12	12.3		1
06958	Manganese	7439-96-5	357		0.0958	0.614		1
10145	Phosphorus	7723-14-0	640		0.688	12.3		1
01662	Potassium	7440-09-7	5,740		22.1	61.4		1

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Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	129		45.8	123		1
07968	Strontium	7440-24-6	114		0.0762	0.614		1
06969	Tin	7440-31-5	2.05	J	1.23	12.3		1
06970	Titanium	7440-32-6	1,240		0.467	1.23		1
10146	Zirconium	7440-67-7	2.97	J	1.03	6.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.189	J	0.0744	0.248		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.75		0.0744	0.496		2
06126	Barium	7440-39-3	115		0.134	0.496		2
06127	Beryllium	7440-41-7	0.723		0.0199	0.124		2
06128	Cadmium	7440-43-9	0.360		0.0447	0.124		2
06131	Chromium	7440-47-3	31.5		0.149	0.496		2
06132	Cobalt	7440-48-4	8.52		0.0248	0.124		2
06133	Copper	7440-50-8	13.6		0.0819	0.496		2
06135	Lead	7439-92-1	9.53		0.0129	0.248		2
06138	Molybdenum	7439-98-7	0.527		0.0620	0.124		2
06139	Nickel	7440-02-0	18.0		0.124	0.496		2
06141	Selenium	7782-49-2	0.296	J	0.0496	0.496		2
06142	Silver	7440-22-4	0.0309	J	0.0149	0.124		2
06145	Thallium	7440-28-0	0.344		0.0372	0.124		2
06148	Vanadium	7440-62-2	60.6		0.0273	0.124		2
06149	Zinc	7440-66-6	77.6		0.695	3.72		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.120		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.99	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.99	U	0.99	1.9		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.2	U	11.2	37.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.25	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.62		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	440		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.19	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	19.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103621AA	12/28/2010	16:24	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103631AA	12/29/2010	10:11	Jason M Long	21.55
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010	17:18	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035723411	12/23/2010	17:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035723411	12/23/2010	17:55	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035723411	12/23/2010	17:15	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/20/2011	15:38	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011	03:59	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011	13:55	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010	10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010	06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34B	12/27/2010	19:05	Carrie E Miller	20.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010	17:14	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103650008A	01/06/2011	03:49	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010	19:08	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011	06:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011	18:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011	06:48	Lindsey K Lafferty	1

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Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103650008A	01/03/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 18:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103630030A	12/29/2010 22:48	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103630032A	12/29/2010 20:41	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 08:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103630032A	12/29/2010 17:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103630030A	12/29/2010 17:00	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
01650	Calcium	SW-846 6010B	2	103645708002	12/31/2010 17:18	John P Hook	5
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:17	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06133	Copper	SW-846 6020	2	110101026002A	01/12/2011 09:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:05	Choon Y Tian	2

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Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173165
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL117 SDG#: DE051-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201A	01/14/2011 12:54	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11013013201A	01/14/2011 12:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203A	01/14/2011 22:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 19:59	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11004102201A	01/04/2011 19:04	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201A	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203A	01/13/2011 23:45	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11004102201A	01/04/2011 09:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Sample Description: **SL-118-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173166
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE051-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.86
06192	Methylene Chloride	75-09-2	0.43	J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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SL118 SDG#: DE051-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.11	J	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.76
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	98.3	U	98.3	197		5

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1

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SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173166
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14420 Albemarle Point Place
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SL118 SDG#: DE051-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	11	J	7.1	21		1
10138	Chrysene	218-01-9	1.0	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.4	J	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	88	U	88	180	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	59	U	59	180	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	350	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	350	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	59	U	59	180	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	59	U	59	180	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	59	U	59	180	10000000	1
10132	HMX	2691-41-0	150	U	150	440	10000000	1
10132	Nitrobenzene	98-95-3	59	U	59	180	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,500	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	180	10000000	1
10132	3-Nitrotoluene	99-08-1	150	U	150	180	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	180	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,500	10000000	1
10132	RDX	121-82-4	74	U	74	180	10000000	1
10132	Tetryl	479-45-8	90	U	90	180	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	59	U	59	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	59	U	59	180	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	7.9	U	7.9	7.9		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.7	U	1.7	2.0		1
10401	MCPA	94-74-6	110	J	90	290		1
10401	MCPP (Mecoprop)	93-65-2	390		88	290		1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/l. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for 2,4-DB.
Due to interfering peaks on the chromatogram, the values reported 2,4-DP and 2,4-DB represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.94	U	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.078	U	0.078	0.40		1
01363	p,p-DDT	50-29-3	0.29	U	0.29	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20		1

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Sample Description: SL-118-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173166
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE051-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.79	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.0	J	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.80	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	7.5		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	32		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	13	U	13	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1

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Sample Description: SL-118-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173166
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE051-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		5.87	23.4		1
07914	Boron	7440-42-8	5.79	J	1.04	5.84		1
01650	Calcium	7440-70-2	22,300		7.16	23.4		1
01654	Iron	7439-89-6	12,400		5.50	23.4		1
01656	Lithium	7439-93-2	11.2		0.26	2.3		1
01657	Magnesium	7439-95-4	3,230		2.97	11.7		1
06958	Manganese	7439-96-5	156		0.0911	0.584		1
10145	Phosphorus	7723-14-0	391		0.654	11.7		1
01662	Potassium	7440-09-7	2,470		21.0	58.4		1
01667	Sodium	7440-23-5	72.7	J	43.6	117		1
07968	Strontium	7440-24-6	46.2		0.0724	0.584		1
06969	Tin	7440-31-5	1.61	J	1.17	11.7		1
06970	Titanium	7440-32-6	615		0.444	1.17		1
10146	Zirconium	7440-67-7	1.94	J	0.981	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.18		0.0687	0.458		2
06126	Barium	7440-39-3	122		0.124	0.458		2
06127	Beryllium	7440-41-7	0.624		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.254		0.0412	0.114		2
06131	Chromium	7440-47-3	28.6		0.137	0.458		2
06132	Cobalt	7440-48-4	8.64		0.0229	0.114		2
06133	Copper	7440-50-8	12.9		0.0771	0.467		2
06135	Lead	7439-92-1	9.56		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.502		0.0572	0.114		2
06139	Nickel	7440-02-0	17.3		0.114	0.458		2
06141	Selenium	7782-49-2	0.265	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0300	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.295		0.0343	0.114		2
06148	Vanadium	7440-62-2	54.1		0.0257	0.117		2
06149	Zinc	7440-66-6	71.2		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.94	U	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-118-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173166
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE051-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	441		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103621AA	12/28/2010	16:46	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103631AA	12/29/2010	10:31	Jason M Long	20.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010	17:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035723411	12/23/2010	17:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035723411	12/23/2010	17:55	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035723411	12/23/2010	17:22	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011	17:17	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011	04:34	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011	14:27	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010	10:40	Kelli M Barto	1

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Sample Description: SL-118-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173166
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE051-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34B	12/27/2010 19:41	Carrie E Miller	20.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:21	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103650008A	01/06/2011 05:56	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 19:17	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 07:37	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 19:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 07:07	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103650008A	01/03/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 23:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103630030A	12/29/2010 23:03	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103630032A	12/29/2010 20:57	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 11:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103630032A	12/29/2010 17:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103630030A	12/29/2010 17:00	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:22	Eric L Eby	1

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Sample Description: SL-118-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173166
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL118 SDG#: DE051-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/11/2011 13:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06133	Copper	SW-846 6020	2	110101026002A	01/12/2011 09:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 13:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11013013201B	01/14/2011 13:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 11:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 20:11	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	2	11004102201A	01/04/2011 19:07	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11004102201A	01/04/2011 09:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-100-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173167
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Account # 13013

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SL100 SDG#: DE051-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.81	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	7.0		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	6.1		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	9.2		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.6		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	10	J	7.0	21		1
10138	Chrysene	218-01-9	6.8		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	12		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.6		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	3.5		0.77	1.9		1
10138	Pyrene	129-00-0	12		0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.0	U	1.0	2.0		1
10401	Dicamba	1918-00-9	2.3	U	2.3	2.3		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.12	J	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/l. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for

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SL100 SDG#: DE051-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	2,4-DB.							
	Due to interfering peaks on the chromatogram, the values reported for dicamba and 2,4-DB represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.39		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.39		1
01363	p,p-DDT	50-29-3	0.077	U	0.077	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.39		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.73	22.8		1
07914	Boron	7440-42-8	5.13	J	1.01	5.69		1
01650	Calcium	7440-70-2	5,190		6.98	22.8		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,000		5.36	22.8		1
01656	Lithium	7439-93-2	23.0		0.25	2.3		1
01657	Magnesium	7439-95-4	4,940		2.89	11.4		1
06958	Manganese	7439-96-5	283		0.0888	0.569		1
10145	Phosphorus	7723-14-0	423		0.638	11.4		1
01662	Potassium	7440-09-7	3,050		20.5	56.9		1
01667	Sodium	7440-23-5	95.5	J	42.5	114		1
07968	Strontium	7440-24-6	25.6		0.0706	0.569		1
06969	Tin	7440-31-5	2.26	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,130		0.433	1.14		1
10146	Zirconium	7440-67-7	3.01	J	0.956	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0683	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.21		0.0683	0.455		2
06126	Barium	7440-39-3	102		0.123	0.455		2
06127	Beryllium	7440-41-7	0.404		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.121		0.0410	0.114		2
06131	Chromium	7440-47-3	14.9		0.137	0.455		2
06132	Cobalt	7440-48-4	5.29		0.0228	0.114		2
06133	Copper	7440-50-8	13.5		0.0767	0.465		2
06135	Lead	7439-92-1	5.00		0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.447		0.0569	0.114		2
06139	Nickel	7440-02-0	10.4		0.114	0.455		2
06141	Selenium	7782-49-2	0.127	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0305	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.243		0.0342	0.114		2
06148	Vanadium	7440-62-2	48.4		0.0256	0.116		2
06149	Zinc	7440-66-6	57.2		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0161	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	459		10.0	10.0		1

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SL100 SDG#: DE051-08BKG

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.70	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	13.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 00:31	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 10:44	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 03:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 19:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 07:25	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1

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Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 09:35	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 13:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 13:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 13:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 13:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 13:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/14/2011 22:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11017243201A	01/20/2011 20:17	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-100-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173168
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,200		190	580		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	3,700	J	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,900		190	580		1
04688	Benzyl alcohol	100-51-6	1,800		190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190		1
04688	Carbazole	86-74-8	1,900		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		39	190		1
04688	4-Chloroaniline	106-47-8	1,100		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,900		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190		1
04688	Diethylphthalate	84-66-2	1,800		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,900		39	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000		39	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500		190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,800		770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,100		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	390		1
04688	Fluoranthene	206-44-0	1,900		19	190		1
04688	Fluorene	86-73-7	1,900		19	190		1
04688	Hexachlorobenzene	118-74-1	1,900		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,800		77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,500		190	580		1
04688	Hexachloroethane	67-72-1	1,600		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		19	190		1
04688	Isophorone	78-59-1	1,800		19	190		1

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Sample Description: SL-100-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173168
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL100 SDG#: DE051-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,800	39	190		1
04688	4-Methylphenol	106-44-5	1,800	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	2,000	19	190		1
04688	3-Nitroaniline	99-09-2	1,900	39	190		1
04688	4-Nitroaniline	100-01-6	1,600	77	190		1
04688	Nitrobenzene	98-95-3	1,900	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	2,100	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	19	190		1
04688	Pentachlorophenol	87-86-5	1,600	190	580		1
04688	Phenanthrene	85-01-8	1,900	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	2,000	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	36	0.77	1.9		1
10138	Acenaphthylene	208-96-8	37	0.39	1.9		1
10138	Anthracene	120-12-7	35	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	38	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	36	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	39	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	25	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	42	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	49	7.0	21		1
10138	Chrysene	218-01-9	35	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	30	0.77	1.9		1
10138	Diethylphthalate	84-66-2	45	7.0	21		1
10138	Dimethylphthalate	131-11-3	41	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41	7.0	21		1
10138	Fluoranthene	206-44-0	37	0.77	1.9		1
10138	Fluorene	86-73-7	36	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	35	0.77	1.9		1

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Sample Description: SL-100-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173168
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

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SL100 SDG#: DE051-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	33		0.77	1.9		1
10138	Naphthalene	91-20-3	35		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	40		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	40		7.0	21		1
10138	Phenanthrene	85-01-8	35		0.77	1.9		1
10138	Pyrene	129-00-0	33		0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	12		1.4	4.2		1
10401	Dalapon	75-99-0	16		5.1	10		1
10401	2,4-DB	94-82-6	9.2		0.72	2.0		1
10401	Dicamba	1918-00-9	1.0	J	0.46	1.4		1
10401	Dinoseb	88-85-7	2.0	J	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.8		0.93	2.0		1
10401	MCPA	94-74-6	1,000		88	290		1
10401	MCPP (Mecoprop)	93-65-2	960		87	290		1
10401	2,4,5-T	93-76-5	0.93		0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.82		0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/l. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for 2,4-DB.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.39		0.077	0.20		1
01363	Alpha BHC	319-84-6	0.26		0.039	0.20		1
01363	Beta BHC	319-85-7	0.27		0.070	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.29		0.039	0.20		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.51		0.077	0.39		1
01363	p,p-DDE	72-55-9	0.77		0.077	0.39		1
01363	p,p-DDT	50-29-3	0.58		0.077	0.39		1
01363	Delta BHC	319-86-8	0.26		0.042	0.20		1
01363	Dieldrin	60-57-1	0.52		0.077	0.39		1
01363	Endosulfan I	959-98-8	0.21		0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.62		0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.70		0.077	0.39		1
01363	Endrin	72-20-8	0.53		0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.46		0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.70		0.077	0.39		1
01363	Heptachlor	76-44-8	0.33		0.070	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.36		0.039	0.20		1
01363	Methoxychlor	72-43-5	3.0		0.39	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

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Sample Description: **SL-100-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173168
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
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14420 Albemarle Point Place
Suite 210
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SL100 SDG#: DE051-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	25		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	26		0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,300		5.56	22.1		1
07914	Boron	7440-42-8	199		0.984	5.53		1
01650	Calcium	7440-70-2	4,790		6.78	22.1		1
01654	Iron	7439-89-6	28,800		5.21	22.1		1
01656	Lithium	7439-93-2	138		0.24	2.2		1
01657	Magnesium	7439-95-4	6,840		2.81	11.1		1
06958	Manganese	7439-96-5	397		0.0863	0.553		1
10145	Phosphorus	7723-14-0	583		0.619	11.1		1
01662	Potassium	7440-09-7	4,870		19.9	55.3		1
01667	Sodium	7440-23-5	1,130		41.3	111		1
07968	Strontium	7440-24-6	126		0.0686	0.553		1
06969	Tin	7440-31-5	398		1.11	11.1		1
06970	Titanium	7440-32-6	1,560		0.420	1.11		1
10146	Zirconium	7440-67-7	108		0.929	5.53		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.551		0.0683	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.18		0.0683	0.455		2
06126	Barium	7440-39-3	119		0.123	0.455		2
06127	Beryllium	7440-41-7	1.40		0.0182	0.114		2
06128	Cadmium	7440-43-9	1.37		0.0410	0.114		2
06131	Chromium	7440-47-3	27.6		0.137	0.455		2
06132	Cobalt	7440-48-4	58.9		0.0228	0.114		2
06133	Copper	7440-50-8	25.1		0.0744	0.451		2
06135	Lead	7439-92-1	9.11		0.0118	0.228		2
06138	Molybdenum	7439-98-7	12.4		0.0569	0.114		2
06139	Nickel	7440-02-0	23.8		0.114	0.455		2
06141	Selenium	7782-49-2	2.16		0.0455	0.455		2
06142	Silver	7440-22-4	12.4		0.0137	0.114		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-100-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173168
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.724	0.0342	0.114		2
06148	Vanadium	7440-62-2	56.4	0.0248	0.113		2
06149	Zinc	7440-66-6	70.2	0.638	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.193	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.6	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	503	10.5	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	46.2	1.2	5.8		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	13.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 01:06	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 11:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 03:58	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 19:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 07:44	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1

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Sample Description: **SL-100-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173168
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 09:46	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 13:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06133	Copper	SW-846 6020	2	110101026002A	01/12/2011 09:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 13:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 13:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 13:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 13:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/14/2011 23:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 20:36	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-100-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173169
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900	19	190		1
04688	Acenaphthylene	208-96-8	1,900	19	190		1
04688	Aniline	62-53-3	1,100	190	580		1
04688	Anthracene	120-12-7	1,900	19	190		1
04688	Benzidine	92-87-5	4,800	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	19	190		1
04688	Benzoic acid	65-85-0	2,000	190	580		1
04688	Benzyl alcohol	100-51-6	1,700	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900	19	190		1
04688	Carbazole	86-74-8	1,900	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900	39	190		1
04688	4-Chloroaniline	106-47-8	1,100	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600	19	190		1
04688	2-Chlorophenol	95-57-8	1,800	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	39	190		1
04688	Chrysene	218-01-9	1,800	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	19	190		1
04688	Dibenzofuran	132-64-9	1,900	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,900	19	190		1
04688	Diethylphthalate	84-66-2	1,900	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,900	39	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000	39	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,800	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	2,000	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	390		1
04688	Fluoranthene	206-44-0	1,900	19	190		1
04688	Fluorene	86-73-7	1,900	19	190		1
04688	Hexachlorobenzene	118-74-1	1,900	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,800	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,100	190	580		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1

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Sample Description: SL-100-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173169
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,800	39	190		1
04688	4-Methylphenol	106-44-5	1,700	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	2,000	19	190		1
04688	3-Nitroaniline	99-09-2	1,900	39	190		1
04688	4-Nitroaniline	100-01-6	1,600	77	190		1
04688	Nitrobenzene	98-95-3	1,900	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	2,100	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	19	190		1
04688	Pentachlorophenol	87-86-5	1,500	190	580		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	2,100	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.77	1.9		1
10138	Acenaphthylene	208-96-8	40	0.39	1.9		1
10138	Anthracene	120-12-7	35	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	41	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	40	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	42	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	25	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	42	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	42	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	52	7.0	21		1
10138	Chrysene	218-01-9	38	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	31	0.77	1.9		1
10138	Diethylphthalate	84-66-2	42	7.0	21		1
10138	Dimethylphthalate	131-11-3	43	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47	7.0	21		1
10138	Fluoranthene	206-44-0	42	0.77	1.9		1
10138	Fluorene	86-73-7	36	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	35	0.77	1.9		1

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Sample Description: SL-100-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173169
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	31		0.77	1.9		1
10138	Naphthalene	91-20-3	34		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	40		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	45		7.0	21		1
10138	Phenanthrene	85-01-8	36		0.77	1.9		1
10138	Pyrene	129-00-0	37		0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	11		1.4	4.2		1
10401	Dalapon	75-99-0	14		5.1	10		1
10401	2,4-DB	94-82-6	8.0		0.72	2.0		1
10401	Dicamba	1918-00-9	0.99	J	0.46	1.4		1
10401	Dinoseb	88-85-7	0.98	J	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.5		0.93	2.0		1
10401	MCPA	94-74-6	800		88	290		1
10401	MCPP (Mecoprop)	93-65-2	770		87	290		1
10401	2,4,5-T	93-76-5	0.85		0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.80		0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/l. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for 2,4-DB.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.36		0.077	0.20		1
01363	Alpha BHC	319-84-6	0.23		0.039	0.20		1
01363	Beta BHC	319-85-7	0.24		0.070	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.039	0.20		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.56		0.077	0.39		1
01363	p,p-DDE	72-55-9	0.77		0.077	0.39		1
01363	p,p-DDT	50-29-3	0.49		0.077	0.39		1
01363	Delta BHC	319-86-8	0.28		0.042	0.20		1
01363	Dieldrin	60-57-1	0.55		0.077	0.39		1
01363	Endosulfan I	959-98-8	0.21		0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.64		0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.81		0.077	0.39		1
01363	Endrin	72-20-8	0.51		0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.51		0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.69		0.077	0.39		1
01363	Heptachlor	76-44-8	0.27		0.070	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.34		0.039	0.20		1
01363	Methoxychlor	72-43-5	2.9		0.39	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-100-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173169
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	32		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	29		0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,300		5.84	23.2		1
07914	Boron	7440-42-8	211		1.03	5.81		1
01650	Calcium	7440-70-2	4,000		7.12	23.2		1
01654	Iron	7439-89-6	21,100		5.47	23.2		1
01656	Lithium	7439-93-2	133		0.26	2.3		1
01657	Magnesium	7439-95-4	5,300		2.95	11.6		1
06958	Manganese	7439-96-5	346		0.0906	0.581		1
10145	Phosphorus	7723-14-0	588		0.650	11.6		1
01662	Potassium	7440-09-7	5,020		20.9	58.1		1
01667	Sodium	7440-23-5	1,230		43.3	116		1
07968	Strontium	7440-24-6	127		0.0720	0.581		1
06969	Tin	7440-31-5	421		1.16	11.6		1
06970	Titanium	7440-32-6	1,550		0.441	1.16		1
10146	Zirconium	7440-67-7	114		0.976	5.81		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.591		0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.73		0.0670	0.447		2
06126	Barium	7440-39-3	133		0.121	0.447		2
06127	Beryllium	7440-41-7	1.27		0.0179	0.112		2
06128	Cadmium	7440-43-9	1.33		0.0402	0.112		2
06131	Chromium	7440-47-3	27.2		0.134	0.447		2
06132	Cobalt	7440-48-4	58.2		0.0223	0.112		2
06133	Copper	7440-50-8	24.8		0.0730	0.442		2
06135	Lead	7439-92-1	8.74		0.0116	0.223		2
06138	Molybdenum	7439-98-7	12.4		0.0558	0.112		2
06139	Nickel	7440-02-0	22.3		0.112	0.447		2
06141	Selenium	7782-49-2	2.11		0.0447	0.447		2
06142	Silver	7440-22-4	12.3		0.0134	0.112		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-100-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173169
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06145	Thallium	7440-28-0	0.749	0.0335	0.112		2
06148	Vanadium	7440-62-2	57.1	0.0243	0.111		2
06149	Zinc	7440-66-6	74.3	0.625	3.35		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.200	0.0032	0.111		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 01:40	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 11:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 04:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 19:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 08:02	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-100-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173169
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 09:51	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 13:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06133	Copper	SW-846 6020	2	110101026002A	01/12/2011 09:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 13:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 13:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 13:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-100-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173170
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.62	22.3		1
07914	Boron	7440-42-8	4.25	J	0.994	5.58		1
01650	Calcium	7440-70-2	3,150		6.85	22.3		1
01654	Iron	7439-89-6	18,600		5.26	22.3		1
01656	Lithium	7439-93-2	21.1		0.25	2.2		1
01657	Magnesium	7439-95-4	4,350		2.84	11.2		1
06958	Manganese	7439-96-5	278		0.0871	0.558		1
10145	Phosphorus	7723-14-0	365		0.625	11.2		1
01662	Potassium	7440-09-7	2,850		20.1	55.8		1
01667	Sodium	7440-23-5	95.8	J	41.7	112		1
07968	Strontium	7440-24-6	19.3		0.0692	0.558		1
06969	Tin	7440-31-5	2.26	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,140		0.424	1.12		1
10146	Zirconium	7440-67-7	2.34	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0697	U	0.0697	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.36		0.0697	0.465		2
06126	Barium	7440-39-3	100		0.125	0.465		2
06127	Beryllium	7440-41-7	0.484		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.131		0.0418	0.116		2
06131	Chromium	7440-47-3	16.7		0.139	0.465		2
06132	Cobalt	7440-48-4	5.59		0.0232	0.116		2
06133	Copper	7440-50-8	9.79		0.0767	0.465		2
06135	Lead	7439-92-1	5.27		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.523		0.0581	0.116		2
06139	Nickel	7440-02-0	11.7		0.116	0.465		2
06141	Selenium	7782-49-2	0.113	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0330	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.252		0.0348	0.116		2
06148	Vanadium	7440-62-2	34.9		0.0256	0.116		2
06149	Zinc	7440-66-6	58.3		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0140	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-100-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173170
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	457	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.76	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3		n.a.	13.9	0.50	0.50		1
11626	28a Moisture Content by 160.3		n.a.	12.7	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010	09:42	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011	13:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011	13:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011	13:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011	13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011	13:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011	13:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011	13:37	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173170
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL100 SDG#: DE051-08DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 13:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/11/2011 13:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 13:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 13:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 13:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 13:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 13:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 13:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/14/2011 23:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11017243201A	01/20/2011 21:19	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173171
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.8
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.8
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.8
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.8
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.8
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.8
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.8
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.8
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.8
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.8
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.8
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.8
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.8
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.8
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.8
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.8
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.8
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.8
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.8
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.8
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.8
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.8
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.8
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.8
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.8
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.8
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.8
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.8
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.8
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.8
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.8
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.8
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.8
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.8
06192	Methylene Chloride	75-09-2	0.43	J	0.24	4.0		0.8
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.8

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Sample Description: **SL-114-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173171
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.8
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.8
06192	Toluene	108-88-3	0.11	J	0.08	4.0		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.8
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.8
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.8
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.8
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.8
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	104	U	104	208		5

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	620		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	620		1
04688	Benzyl alcohol	100-51-6	210	U	210	620		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	83	U	83	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1

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Sample Description: SL-114-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173171
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620		1
04688	2,4-Dinitrophenol	51-28-5	830	U	830	2,500		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	87	J	21	420		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	83	U	83	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	620		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	620		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.83	U	0.83	2.1		1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1		1
10138	Anthracene	120-12-7	0.42	U	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.83	2.1		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.83	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	4.0		0.83	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.83	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.83	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.5	U	7.5	22		1
10138	Di-n-butylphthalate	84-74-2	7.5	U	7.5	22		1
10138	Chrysene	218-01-9	2.6		0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.83	U	0.83	2.1		1
10138	Diethylphthalate	84-66-2	7.5	U	7.5	22		1
10138	Dimethylphthalate	131-11-3	7.5	U	7.5	22		1

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SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173171
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

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14420 Albemarle Point Place
Suite 210
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SL114 SDG#: DE051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	4.0		0.83	2.1		1
10138	Fluorene	86-73-7	0.83	U	0.83	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.83	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.83	U	0.83	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.83	U	0.83	2.1		1
10138	Naphthalene	91-20-3	0.84	J	0.83	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.83	U	0.83	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.5	U	7.5	22		1
10138	Phenanthrene	85-01-8	2.3		0.83	2.1		1
10138	Pyrene	129-00-0	3.8		0.83	2.1		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.0	U	2.0	10		200.32
	Reporting limits were raised due to sample foaming.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	94	U	94	190	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	62	U	62	190	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120	U	120	370	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120	U	120	370	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	62	U	62	190	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	62	U	62	190	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	62	U	62	190	10000000	1
10132	HMX	2691-41-0	160	U	160	470	10000000	1
10132	Nitrobenzene	98-95-3	62	U	62	190	10000000	1
10132	Nitroglycerin	55-63-0	1,200	U	1,200	3,700	10000000	1
10132	2-Nitrotoluene	88-72-2	120	U	120	190	10000000	1
10132	3-Nitrotoluene	99-08-1	160	U	160	190	10000000	1
10132	4-Nitrotoluene	99-99-0	120	U	120	190	10000000	1
10132	PETN	78-11-5	1,200	U	1,200	3,700	10000000	1
10132	RDX	121-82-4	78	U	78	190	10000000	1
10132	Tetryl	479-45-8	95	U	95	190	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173171
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	62	U	62	190	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	62	U	62	190	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5		1
10401	Dalapon	75-99-0	5.5	U	5.5	11		1
10401	2,4-DB	94-82-6	0.87	J	0.77	2.1		1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.5		1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.5	U	1.5	2.1		1
10401	MCPA	94-74-6	190	U	190	310		1
10401	MCPP (Mecoprop)	93-65-2	94	U	94	310		1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.21		1
10401	2,4,5-TP	93-72-1	0.094	U	0.094	0.21		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/l. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for 2,4-DB.
Due to interfering peaks on the chromatogram, the values reported for MCPA, 2,4-DP and 2,4,5-TP represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	750	U	750	1,900		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.21		1
01363	Beta BHC	319-85-7	0.075	U	0.075	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.21		1
01363	Chlordane	57-74-9	3.2	U	3.2	4.2		1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.42		1
01363	p,p-DDE	72-55-9	0.082	U	0.082	0.42		1
01363	p,p-DDT	50-29-3	0.34	U	0.34	0.42		1
01363	Delta BHC	319-86-8	0.045	U	0.045	0.21		1
01363	Dieldrin	60-57-1	0.094	U	0.094	0.42		1
01363	Endosulfan I	959-98-8	0.055	U	0.055	0.21		1
01363	Endosulfan II	33213-65-9	0.082	U	0.082	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.082	U	0.082	0.42		1
01363	Endrin	72-20-8	0.082	U	0.082	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.42		1
01363	Endrin Ketone	53494-70-5	0.082	U	0.082	0.42		1
01363	Heptachlor	76-44-8	0.075	U	0.075	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.079	U	0.079	0.21		1

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Sample Description: **SL-114-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173171
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.42		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.62	U	0.62	2.1		1
10225	PCB-1232	11141-16-5	0.65	U	0.65	2.1		1
10225	PCB-1242	53469-21-9	0.62	U	0.62	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	3.4		0.41	2.1		1
10225	PCB-1260	11096-82-5	1.1	J	0.41	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.50	U	0.50	1.5		1
10199	EFH (C15-C20)	n.a.	0.61	J	0.50	1.5		1
10199	EFH (C21-C30)	n.a.	2.6		0.50	1.5		1
10199	EFH (C30 - C40)	n.a.	9.9		0.50	1.5		1
10199	EFH (C8-C11)	n.a.	0.50	U	0.50	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	620		1
10501	Isopropanol	67-63-0	140	J	120	620		1
10501	Methanol	67-56-1	520	J	120	620		1

Methanol was detected in the method blank at a concentration of 110 ug/kg. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The methanol result for the original extraction is 160 ug/kg; the ethanol result for the original extraction is <100 ug/kg and the isopropanol result for the original extraction is 120 ug/kg.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SL-114-SA5B-SS-0.0-0.5

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SL114 SDG#: DE051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	16		1
08283	Ethylene glycol	107-21-1	17	U	17	17		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	16		1
	Reporting limits were raised due to interference from the sample matrix.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.9	U	1.9	4.4		1
10318	o-Terphenyl	84-15-1	1.9	U	1.9	4.4		1
10318	p-Terphenyl	92-94-4	1.9	U	1.9	4.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		6.27	24.9		1
07914	Boron	7440-42-8	9.74		1.11	6.23		1
01650	Calcium	7440-70-2	27,500		7.64	24.9		1
01654	Iron	7439-89-6	22,700		5.87	24.9		1
01656	Lithium	7439-93-2	22.7		0.27	2.5		1
01657	Magnesium	7439-95-4	6,260		3.17	12.5		1
06958	Manganese	7439-96-5	292		0.0973	0.623		1
10145	Phosphorus	7723-14-0	534		0.698	12.5		1
01662	Potassium	7440-09-7	4,650		22.4	62.3		1
01667	Sodium	7440-23-5	133		46.5	125		1
07968	Strontium	7440-24-6	58.9		0.0773	0.623		1
06969	Tin	7440-31-5	2.21	J	1.25	12.5		1
06970	Titanium	7440-32-6	1,270		0.474	1.25		1
10146	Zirconium	7440-67-7	1.94	J	1.05	6.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0895	J	0.0741	0.247		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.93		0.0741	0.494		2
06126	Barium	7440-39-3	109		0.133	0.494		2
06127	Beryllium	7440-41-7	0.513		0.0198	0.123		2
06128	Cadmium	7440-43-9	0.256		0.0444	0.123		2
06131	Chromium	7440-47-3	23.6		0.148	0.494		2
06132	Cobalt	7440-48-4	7.12		0.0247	0.123		2
06133	Copper	7440-50-8	13.6		0.0784	0.475		2
06135	Lead	7439-92-1	7.69		0.0128	0.247		2
06138	Molybdenum	7439-98-7	0.459		0.0617	0.123		2
06139	Nickel	7440-02-0	14.4		0.123	0.494		2
06141	Selenium	7782-49-2	0.188	J	0.0494	0.494		2
06142	Silver	7440-22-4	0.0289	J	0.0148	0.123		2
06145	Thallium	7440-28-0	0.296		0.0370	0.123		2
06148	Vanadium	7440-62-2	56.9		0.0261	0.119		2
06149	Zinc	7440-66-6	78.1		0.691	3.70		2

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Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035	U	0.0035	0.123		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		1.0	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	U	1.0	1.9		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.2	U	11.2	37.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.25	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	443		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	19.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103621AA	12/28/2010 17:09	Chelsea B Eastep	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103631AA	12/29/2010 10:51	Jason M Long	20.66

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SL-114-SA5B-SS-0.0-0.5

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SL114 SDG#: DE051-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035723411	12/23/2010 17:55	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035723411	12/23/2010 17:29	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011 17:34	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 05:09	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 14:59	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34B	12/27/2010 20:27	Carrie E Miller	200.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:28	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103650008A	01/06/2011 06:39	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 19:27	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 08:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 20:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 08:21	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103650008A	01/03/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 20:11	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 17:42	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103630032A	12/29/2010 21:13	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 08:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103630032A	12/29/2010 17:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:26	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 14:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11013013201B	01/14/2011 14:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/15/2011 00:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11017243201A	01/20/2011 21:32	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	2	11004102201A	01/04/2011 19:08	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11004102201A	01/04/2011 09:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-114-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173171
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE051-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-102-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173172
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL102 SDG#: DE051-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-102-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173172
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL102 SDG#: DE051-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	7.2	J	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	7.7	J	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	1.2	J	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/l. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for

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Sample Description: **SL-102-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173172
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL102 SDG#: DE051-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
2,4-DB.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.38		1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.38		1
01363	p,p-DDT	50-29-3	0.075	U	0.075	0.38		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38		1
01363	Endrin	72-20-8	0.075	U	0.075	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.38		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.075	U	0.075	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,000		5.47	21.7		1
07914	Boron	7440-42-8	4.70	J	0.967	5.43		1
01650	Calcium	7440-70-2	4,940		6.66	21.7		1
01654	Iron	7439-89-6	21,000		5.12	21.7		1
01656	Lithium	7439-93-2	22.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,600		2.76	10.9		1
06958	Manganese	7439-96-5	304		0.0847	0.543		1
10145	Phosphorus	7723-14-0	344		0.608	10.9		1

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Sample Description: **SL-102-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173172
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL102 SDG#: DE051-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,290		19.6	54.3		1
01667	Sodium	7440-23-5	118		40.5	109		1
07968	Strontium	7440-24-6	24.5		0.0674	0.543		1
06969	Tin	7440-31-5	2.27	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,150		0.413	1.09		1
10146	Zirconium	7440-67-7	2.04	J	0.913	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.55		0.0665	0.443		2
06126	Barium	7440-39-3	108		0.120	0.443		2
06127	Beryllium	7440-41-7	0.659		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.367		0.0399	0.111		2
06131	Chromium	7440-47-3	30.9		0.133	0.443		2
06132	Cobalt	7440-48-4	7.79		0.0222	0.111		2
06133	Copper	7440-50-8	14.5		0.0738	0.448		2
06135	Lead	7439-92-1	9.32		0.0115	0.222		2
06138	Molybdenum	7439-98-7	15.9		0.0554	0.111		2
06139	Nickel	7440-02-0	24.0		0.111	0.443		2
06141	Selenium	7782-49-2	0.195	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0333	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.323		0.0332	0.111		2
06148	Vanadium	7440-62-2	50.9		0.0246	0.112		2
06149	Zinc	7440-66-6	113		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0763	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	415		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-102-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173172
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL102 SDG#: DE051-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.71	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 05:44	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 15:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 08:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 20:17	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 08:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173172
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL102 SDG#: DE051-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:30	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06133	Copper	SW-846 6020	2	110101026002A	01/12/2011 09:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 14:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/15/2011 00:47	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 21:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173173
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL124 SDG#: DE051-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	630		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	630		1
04688	Benzyl alcohol	100-51-6	210	U	210	630		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	84	U	84	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630		1
04688	2,4-Dinitrophenol	51-28-5	840	U	840	2,500		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	84	U	84	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	84	U	84	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	630		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	630		1
04688	Phenol	108-95-2	21	U	21	210		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173173
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL124 SDG#: DE051-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.84	U	0.84	2.1		1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1		1
10138	Anthracene	120-12-7	0.42	U	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.84	2.1		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.84	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.84	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	U	0.84	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.85	J	0.84	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.5	U	7.5	23		1
10138	Di-n-butylphthalate	84-74-2	12	J	7.5	23		1
10138	Chrysene	218-01-9	1.6	J	0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.84	U	0.84	2.1		1
10138	Diethylphthalate	84-66-2	7.5	U	7.5	23		1
10138	Dimethylphthalate	131-11-3	7.5	U	7.5	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.5	U	7.5	23		1
10138	Fluoranthene	206-44-0	2.3		0.84	2.1		1
10138	Fluorene	86-73-7	0.84	U	0.84	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	U	0.84	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.84	U	0.84	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.84	U	0.84	2.1		1
10138	Naphthalene	91-20-3	0.84	U	0.84	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.84	U	0.84	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.5	U	7.5	23		1
10138	Phenanthrene	85-01-8	0.84	U	0.84	2.1		1
10138	Pyrene	129-00-0	2.0	J	0.84	2.1		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5		1
10401	Dalapon	75-99-0	5.5	U	5.5	11		1
10401	2,4-DB	94-82-6	0.97	J	0.78	2.1		1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.5		1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.2	U	1.2	2.1		1
10401	MCPA	94-74-6	95	U	95	310		1
10401	MCPP (Mecoprop)	93-65-2	94	U	94	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.094	U	0.094	0.21		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
2,4-DB was detected in the method blank at a concentration of 1.1 ug/l. A reextraction was performed outside the sample hold time. The method blank in the reextraction has no detections for target compounds. Results are reported from the in hold trial data. Similar results were obtained in both extraction for

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173173
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL124 SDG#: DE051-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	2,4-DB. Due to interfering peaks on the chromatogram, the values reported for 2,4-DP represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.083	U	0.083	0.21		1
01363	Alpha BHC	319-84-6	0.043	U	0.043	0.21		1
01363	Beta BHC	319-85-7	0.075	U	0.075	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.043	U	0.043	0.21		1
01363	Chlordane	57-74-9	1.0	U	1.0	4.3		1
01363	p,p-DDD	72-54-8	0.083	U	0.083	0.43		1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.43		1
01363	p,p-DDT	50-29-3	0.14	U	0.14	0.43		1
01363	Delta BHC	319-86-8	0.045	U	0.045	0.21		1
01363	Dieldrin	60-57-1	0.083	U	0.083	0.43		1
01363	Endosulfan I	959-98-8	0.055	U	0.055	0.21		1
01363	Endosulfan II	33213-65-9	0.083	U	0.083	0.43		1
01363	Endosulfan Sulfate	1031-07-8	0.14	U	0.14	0.43		1
01363	Endrin	72-20-8	0.083	U	0.083	0.43		1
01363	Endrin Aldehyde	7421-93-4	0.083	U	0.083	0.43		1
01363	Endrin Ketone	53494-70-5	0.083	U	0.083	0.43		1
01363	Heptachlor	76-44-8	0.075	U	0.075	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.043	U	0.043	0.21		1
01363	Methoxychlor	72-43-5	0.43	U	0.43	2.1		1
01363	Mirex	2385-85-5	0.083	U	0.083	0.43		1
01363	Toxaphene	8001-35-2	2.8	U	2.8	8.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.1		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.1		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.3	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.63	U	0.63	2.1		1
10225	PCB-1232	11141-16-5	0.65	U	0.65	2.1		1
10225	PCB-1242	53469-21-9	0.63	U	0.63	2.1		1
10225	PCB-1248	12672-29-6	22		0.41	2.1		1
10225	PCB-1254	11097-69-1	0.41	U	0.41	2.1		1
10225	PCB-1260	11096-82-5	1.2	J	0.41	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,800		6.06	24.1		1
07914	Boron	7440-42-8	4.85	J	1.07	6.02		1
01650	Calcium	7440-70-2	4,630		7.39	24.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173173
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL124 SDG#: DE051-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,000		5.68	24.1		1
01656	Lithium	7439-93-2	19.4		0.27	2.4		1
01657	Magnesium	7439-95-4	4,210		3.06	12.0		1
06958	Manganese	7439-96-5	266		0.0940	0.602		1
10145	Phosphorus	7723-14-0	362		0.675	12.0		1
01662	Potassium	7440-09-7	2,720		21.7	60.2		1
01667	Sodium	7440-23-5	104	J	44.9	120		1
07968	Strontium	7440-24-6	23.2		0.0747	0.602		1
06969	Tin	7440-31-5	2.26	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,080		0.458	1.20		1
10146	Zirconium	7440-67-7	2.14	J	1.01	6.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0752	U	0.0752	0.251		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.86		0.0752	0.501		2
06126	Barium	7440-39-3	94.8		0.135	0.501		2
06127	Beryllium	7440-41-7	0.586		0.0201	0.125		2
06128	Cadmium	7440-43-9	0.158		0.0451	0.125		2
06131	Chromium	7440-47-3	19.8		0.150	0.501		2
06132	Cobalt	7440-48-4	6.01		0.0251	0.125		2
06133	Copper	7440-50-8	7.76		0.0795	0.482		2
06135	Lead	7439-92-1	5.97		0.0130	0.251		2
06138	Molybdenum	7439-98-7	0.579		0.0627	0.125		2
06139	Nickel	7440-02-0	11.7		0.125	0.501		2
06141	Selenium	7782-49-2	0.152	J	0.0501	0.501		2
06142	Silver	7440-22-4	0.0342	J	0.0150	0.125		2
06145	Thallium	7440-28-0	0.277		0.0376	0.125		2
06148	Vanadium	7440-62-2	35.8		0.0265	0.120		2
06149	Zinc	7440-66-6	66.0		0.702	3.76		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0108	J	0.0035	0.120		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		1.0	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.3	U	11.3	37.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.25	1.3		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	433		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173173
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL124 SDG#: DE051-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.24	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	20.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 09:47	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 16:04	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110040014A	01/10/2011 08:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103650029A	01/20/2011 20:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 08:58	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103650029A	01/04/2011 06:30	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110040014A	01/04/2011 23:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173173
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL124 SDG#: DE051-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:34	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 15:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/15/2011 01:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 22:03	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-157-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173174
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15745 SDG#: DE051-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	58		6.4	7.6		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.87
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	7.6		1.2	7.6		0.87
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.87
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.87
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.87
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.7		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.7		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.87
06192	Methylene Chloride	75-09-2	3.8	J	0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-157-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173174
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15745 SDG#: DE051-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.09	J	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.36
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-157-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173174
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15745 SDG#: DE051-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

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Sample Description: SL-157-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173174
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15745 SDG#: DE051-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.26	20.9		1
07914	Boron	7440-42-8	3.70	J	0.930	5.23		1
01650	Calcium	7440-70-2	2,180		6.41	20.9		1
01654	Iron	7439-89-6	19,000		4.92	20.9		1
01656	Lithium	7439-93-2	22.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,010		2.66	10.5		1
06958	Manganese	7439-96-5	287		0.0815	0.523		1
10145	Phosphorus	7723-14-0	391		0.585	10.5		1
01662	Potassium	7440-09-7	2,800		18.8	52.3		1
01667	Sodium	7440-23-5	113		39.0	105		1
07968	Strontium	7440-24-6	14.9		0.0648	0.523		1
06969	Tin	7440-31-5	2.24	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,010		0.397	1.05		1
10146	Zirconium	7440-67-7	1.84	J	0.878	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0639	U	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.63		0.0639	0.426		2
06126	Barium	7440-39-3	89.8		0.115	0.426		2
06127	Beryllium	7440-41-7	0.576		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.139		0.0384	0.107		2
06131	Chromium	7440-47-3	17.8		0.128	0.426		2
06132	Cobalt	7440-48-4	5.81		0.0213	0.107		2
06133	Copper	7440-50-8	9.36		0.0697	0.422		2
06135	Lead	7439-92-1	5.81		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.668		0.0533	0.107		2

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Sample Description: SL-157-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173174
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15745 SDG#: DE051-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	11.9		0.107	0.426		2
06141	Selenium	7782-49-2	0.146	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0237	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.264		0.0320	0.107		2
06148	Vanadium	7440-62-2	41.5		0.0232	0.106		2
06149	Zinc	7440-66-6	52.8		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0042	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	412		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-157-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-157-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173174
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15745 SDG#: DE051-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103621AA	12/28/2010 17:32	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103631AA	12/29/2010 11:11	Jason M Long	23.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035723411	12/23/2010 17:55	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035723411	12/23/2010 17:34	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 10:22	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 16:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 09:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:38	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:37	Nelli S Markaryan	1

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Sample Description: **SL-157-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173174
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15745 SDG#: DE051-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 15:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/15/2011 01:33	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 22:15	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-158-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173175
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15845 SDG#: DE051-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.96
06192	Methylene Chloride	75-09-2	0.41	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Sample Description: SL-158-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173175
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15845 SDG#: DE051-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.13	J	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		24.85
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-158-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173175
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15845 SDG#: DE051-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

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Sample Description: **SL-158-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173175
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15845 SDG#: DE051-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.58	22.2		1
07914	Boron	7440-42-8	3.92	J	0.987	5.54		1
01650	Calcium	7440-70-2	1,970		6.80	22.2		1
01654	Iron	7439-89-6	18,700		5.22	22.2		1
01656	Lithium	7439-93-2	22.7		0.24	2.2		1
01657	Magnesium	7439-95-4	3,790		2.82	11.1		1
06958	Manganese	7439-96-5	300		0.0865	0.554		1
10145	Phosphorus	7723-14-0	397		0.621	11.1		1
01662	Potassium	7440-09-7	3,350		20.0	55.4		1
01667	Sodium	7440-23-5	111		41.4	111		1
07968	Strontium	7440-24-6	15.6		0.0687	0.554		1
06969	Tin	7440-31-5	2.35	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,050		0.421	1.11		1
10146	Zirconium	7440-67-7	2.09	J	0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	U	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.34		0.0659	0.439		2
06126	Barium	7440-39-3	97.7		0.119	0.439		2
06127	Beryllium	7440-41-7	0.631		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.183		0.0395	0.110		2
06131	Chromium	7440-47-3	18.5		0.132	0.439		2

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Sample Description: SL-158-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173175
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15845 SDG#: DE051-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	7.13	0.0220	0.110		2
06133	Copper	7440-50-8	11.1	0.0724	0.439		2
06135	Lead	7439-92-1	6.78	0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.609	0.0549	0.110		2
06139	Nickel	7440-02-0	13.6	0.110	0.439		2
06141	Selenium	7782-49-2	0.162 J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0396 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.286	0.0329	0.110		2
06148	Vanadium	7440-62-2	38.5	0.0241	0.110		2
06149	Zinc	7440-66-6	61.4	0.615	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0048 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	490	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.33	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-158-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-158-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173175
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15845 SDG#: DE051-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103621AA	12/28/2010 17:54	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103631AA	12/29/2010 11:31	Jason M Long	24.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:41	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035723411	12/23/2010 17:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035723411	12/23/2010 17:39	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 10:57	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/13/2011 17:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 16:44	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 09:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:42	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-158-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173175
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15845 SDG#: DE051-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 15:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/15/2011 01:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 22:28	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-157-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173176
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15891 SDG#: DE051-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-157-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173176
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15891 SDG#: DE051-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.4	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.55	22.1		1
07914	Boron	7440-42-8	3.90	J	0.982	5.52		1
01650	Calcium	7440-70-2	2,050		6.77	22.1		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-157-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173176
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15891 SDG#: DE051-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	17,900		5.20	22.1		1
01656	Lithium	7439-93-2	19.5		0.24	2.2		1
01657	Magnesium	7439-95-4	3,380		2.80	11.0		1
06958	Manganese	7439-96-5	268		0.0861	0.552		1
10145	Phosphorus	7723-14-0	246		0.618	11.0		1
01662	Potassium	7440-09-7	2,390		19.9	55.2		1
01667	Sodium	7440-23-5	96.7	J	41.2	110		1
07968	Strontium	7440-24-6	19.5		0.0684	0.552		1
06969	Tin	7440-31-5	2.36	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,020		0.419	1.10		1
10146	Zirconium	7440-67-7	2.05	J	0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0651	J	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.63		0.0643	0.429		2
06126	Barium	7440-39-3	107		0.116	0.429		2
06127	Beryllium	7440-41-7	0.738		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.128		0.0386	0.107		2
06131	Chromium	7440-47-3	20.2		0.129	0.429		2
06132	Cobalt	7440-48-4	7.28		0.0214	0.107		2
06133	Copper	7440-50-8	11.5		0.0729	0.442		2
06135	Lead	7439-92-1	6.86		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.629		0.0536	0.107		2
06139	Nickel	7440-02-0	14.1		0.107	0.429		2
06141	Selenium	7782-49-2	0.104	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0339	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.311		0.0322	0.107		2
06148	Vanadium	7440-62-2	43.5		0.0243	0.110		2
06149	Zinc	7440-66-6	49.9		0.600	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	446		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-157-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173176
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15891 SDG#: DE051-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011	11:31	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/14/2011	07:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010	06:00	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011	09:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010	06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010	10:45	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-157-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173176
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15891 SDG#: DE051-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 15:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/15/2011 02:19	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11017243201A	01/20/2011 22:40	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103A	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403A	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173177
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14545 SDG#: DE051-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.82
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.82
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.82
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.7		0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.82
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.82
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.82
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5		0.82
06192	Methylene Chloride	75-09-2	0.38	J	0.22	3.7		0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.82

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-145-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173177
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14545 SDG#: DE051-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.7		0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.82
06192	Toluene	108-88-3	0.1	J	0.07	3.7		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		19.5
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	95.4	U	95.4	191		5
Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-145-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173177
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14545 SDG#: DE051-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.87	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	7.2	J	6.9	21		1
10138	Chrysene	218-01-9	2.2		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.9	21		1

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Sample Description: **SL-145-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173177
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14545 SDG#: DE051-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.89	J	0.76	1.9		1
10138	Naphthalene	91-20-3	0.90	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.4	J	0.76	1.9		1
10138	Pyrene	129-00-0	0.78	J	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		25.93
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86	U	86	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57	U	57	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	57	U	57	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	57	U	57	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	57	U	57	170	10000000	1
10132	HMX	2691-41-0	140	U	140	430	10000000	1
10132	Nitrobenzene	98-95-3	57	U	57	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100	U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140	U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110	U	110	170	10000000	1
10132	PETN	78-11-5	1,100	U	1,100	3,400	10000000	1
10132	RDX	121-82-4	72	U	72	170	10000000	1
10132	Tetryl	479-45-8	88	U	88	170	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173177
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14545 SDG#: DE051-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	57	U	57	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U	57	170	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.94	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	18		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	53		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

Methanol was detected in the method blank at a concentration of 110 ug/kg. The sample was re-extracted and run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The data is reported from the second extraction. The methanol result for the original extraction is 150 ug/kg; the ethanol and isopropanol results for the original extraction are <100 ug/kg.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

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Sample Description: SL-145-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173177
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14545 SDG#: DE051-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,700		5.48	21.8		1
07914	Boron	7440-42-8	16.4		0.970	5.45		1
01650	Calcium	7440-70-2	2,780		6.68	21.8		1
01654	Iron	7439-89-6	23,900		5.13	21.8		1
01656	Lithium	7439-93-2	27.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,170		2.77	10.9		1
06958	Manganese	7439-96-5	242		0.0850	0.545		1
10145	Phosphorus	7723-14-0	246		0.610	10.9		1
01662	Potassium	7440-09-7	2,180		19.6	54.5		1
01667	Sodium	7440-23-5	123		40.6	109		1
07968	Strontium	7440-24-6	25.8		0.0676	0.545		1
06969	Tin	7440-31-5	1.77	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,090		0.414	1.09		1
10146	Zirconium	7440-67-7	2.17	J	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.98		0.0680	0.453		2
06126	Barium	7440-39-3	125		0.122	0.453		2
06127	Beryllium	7440-41-7	0.852		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.191		0.0408	0.113		2
06131	Chromium	7440-47-3	24.0		0.136	0.453		2
06132	Cobalt	7440-48-4	5.32		0.0227	0.113		2
06133	Copper	7440-50-8	12.0		0.0748	0.453		2
06135	Lead	7439-92-1	7.28		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.526		0.0566	0.113		2
06139	Nickel	7440-02-0	15.8		0.113	0.453		2
06141	Selenium	7782-49-2	0.163	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0394	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.307		0.0340	0.113		2
06148	Vanadium	7440-62-2	52.1		0.0249	0.113		2
06149	Zinc	7440-66-6	59.7		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92	U	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	17.9		0.92	1.7		1

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Sample Description: SL-145-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173177
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14545 SDG#: DE051-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	618		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	5.91		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	12.6		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-145-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103621AA	12/28/2010	18:16	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103631AA	12/29/2010	11:51	Jason M Long	19.5
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010	17:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035723411	12/23/2010	17:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035723411	12/23/2010	17:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035723411	12/23/2010	17:45	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10363SLG026	01/06/2011	17:50	Timothy J Trees	5

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14545 SDG#: DE051-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10363SLK026	01/20/2011 12:06	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10365SLA026	01/14/2011 08:13	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10363SLG026	12/30/2010 10:40	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10365SLA026	01/03/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	10363SLK026	12/30/2010 06:00	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10357A34B	12/27/2010 21:04	Carrie E Miller	25.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035723411	12/23/2010 17:44	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103650008A	01/06/2011 07:21	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103610005A	12/29/2010 19:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103640029A	01/12/2011 10:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103640029A	12/31/2010 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103610005A	12/27/2010 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103650008A	01/03/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103620026A	12/31/2010 21:01	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103640014A	12/30/2010 17:56	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103630032A	12/29/2010 21:29	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103640012A	01/05/2011 11:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103620026A	12/29/2010 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	103640012A	12/31/2010 00:30	David V Hershey Jr	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103630032A	12/29/2010 17:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103640014A	12/30/2010 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
07914	Boron	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
01654	Iron	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
06969	Tin	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	103645708002	12/31/2010 10:57	Eric L Eby	1
06124	Antimony	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-145-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173177
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14545 SDG#: DE051-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103641026002D	01/06/2011 14:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026002A	01/12/2011 09:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103641026002C	01/06/2011 14:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103641026002B	01/06/2011 14:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026002A	01/12/2011 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103641026002A	01/06/2011 14:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103645711003	01/02/2011 13:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103645708002	12/30/2010 09:09	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103641026002	12/30/2010 09:55	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110101026002	01/11/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103645711003	12/30/2010 11:09	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11013013201B	01/14/2011 15:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11013013201B	01/14/2011 15:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11013013203B	01/15/2011 02:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11017243201A	01/20/2011 22:47	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11004102201A	01/04/2011 19:09	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11013013201B	01/13/2011 13:30	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11013013203B	01/13/2011 23:45	Venia B McFadden	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11004102201A	01/04/2011 09:15	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10361182103B	12/27/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10361039403B	12/27/2010 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11017243201A	01/17/2011 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-122210 Water**
SSFL Area IV Collocated Soil Sampling
TB-122210

LLI Sample # WW 6173178
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:00

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB222 SDG#: DE051-16TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-122210 Water**
SSFL Area IV Collocated Soil Sampling
TB-122210

LLI Sample # WW 6173178
LLI Group # 1226926
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:00

Submitted: 12/23/2010 11:20
Reported: 02/01/2011 10:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB222 SDG#: DE051-16TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103631AA	12/29/2010	05:01	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103562AB	12/28/2010	12:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103562AB	12/28/2010	12:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103631AA	12/29/2010	05:01	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10363B20A	12/29/2010	20:57	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10363B20A	12/29/2010	20:57	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B103621AA	Sample number(s): 6173165-6173166,6173171,6173174-6173175,6173177									
Acetone	6.7	U	6.7	8.0	ug/kg	156	156	32-209	0	30
Benzene	0.10	U	0.10	4.0	ug/kg	102	100	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	89	89	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	101	100	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95	94	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	92	90	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	71	72	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	126	122	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	91	90	72-120	0	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	91	90	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	90	87	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100	95	69-122	5	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	94	94	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	77	76	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	103	99	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	100	98	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	86	83	54-132	3	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	90	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	91	92	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	122	111	22-131	10	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	89	84	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	94	92	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97	93	80-120	4	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	98	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	91	92	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88	88	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	89	91	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71	66	20-120	7	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	98	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	98	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	97	93	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101	97	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99	99	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96	93	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98	95	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	99	95	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	90	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	86	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	95	92	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	97	90	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	94	90	78-120	5	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	87	85	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	81	79	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	91	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	91	90	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	94	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	78	73	61-134	7	30
Methylene Chloride	0.39	J	0.24	4.0	ug/kg	96	94	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	95	93	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	92	93	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95	93	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	93	89	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	94	93	77-120	1	30
Toluene	0.17	J	0.08	4.0	ug/kg	97	94	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	84	88	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	81	86	68-120	6	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100	97	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96	93	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	96	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	83	79	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	93	89	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	91	91	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	91	92	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	83	80	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96	95	80-120	1	30
o-Xylene	0.18	J	0.17	4.0	ug/kg	90	90	80-120	0	30
Batch number: E103562AB	Sample number(s): 6173162,6173178									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	109	60-132	4	30
Batch number: E103631AA	Sample number(s): 6173165-6173166,6173171,6173174-6173175,6173177									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	106	101	70-130	4	30
Batch number: Y103631AA	Sample number(s): 6173162,6173178									
Acetone	6	U	6.	20	ug/l	70	66	49-234	6	30
Benzene	0.5	U	0.5	5	ug/l	100	99	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	102	104	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	97	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	92	92	80-120	0	30
Bromoform	1	U	1.	5	ug/l	90	91	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	93	92	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	91	88	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	100	98	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	105	104	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	99	96	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	94	93	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	95	96	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	94	92	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	95	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	98	99	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	91	92	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	101	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	101	98	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	101	98	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	90	93	66-120	2	30
Dibromochloromethane	1	U	1.	5	ug/l	90	90	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	97	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	98	95	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	97	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	89	87	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	99	79-120	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	97	96	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	107	108	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	101	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	102	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	94	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	97	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	95	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	99	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	91	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	97	79-120	0	30
Freon 113	2	U	2.	10	ug/l	111	109	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	97	93	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	92	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	95	96	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	98	97	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	102	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	99	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	95	93	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	104	106	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	106	106	80-120	0	30
Styrene	1	U	1.	5	ug/l	101	100	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	98	99	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	98	98	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	97	98	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	99	100	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	99	99	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	97	97	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	98	98	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	97	95	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	104	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	104	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	101	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	89	88	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	94	94	80-120	1	30
Batch number: 10362WAA026	Sample number(s): 6173162									
N-Nitrosodimethylamine	1.95		0.500	1.00	ng/l	92	89	70-130	4	30
Batch number: 10362WAC026	Sample number(s): 6173161-6173162									
Acenaphthene	0.010	U	0.010	0.050	ug/l	85	81	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	89	86	70-110	4	30
Anthracene	0.010	U	0.010	0.050	ug/l	88	87	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	89	89	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	84	84	64-115	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	91	92	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	83	83	68-125	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	82	82	72-122	0	30
Butylbenzylphthalate	0.056	J	0.050	1.0	ug/l	77	78	70-130	2	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	91	90	70-130	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	85	85	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	82	83	71-125	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	73	73	70-130	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	66*	69*	70-130	5	30
Bis(2-Ethylhexyl)phthalate	0.056	J	0.050	1.0	ug/l	129	92	70-130	33*	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.010	U	0.010	0.050	ug/l	88	89	75-116	1	30
Fluorene	0.010	U	0.010	0.050	ug/l	92	89	75-114	3	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	83	83	69-124	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	87	82	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	78	75	75-115	4	30
Naphthalene	0.010	U	0.010	0.050	ug/l	83	80	72-109	3	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	55*	51*	70-130	6	30
Di-n-octylphthalate	0.082	J	0.050	1.0	ug/l	83	77	70-130	8	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	85	85	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	88	89	69-118	1	30
Batch number: 10362WAE026	Sample number(s): 6173161-6173162									
Aniline	1	U	1.	5	ug/l	73	68	49-101	7	30
Benzidine	20	U	20.	60	ug/l	55	56	20-109	2	30
Benzoic acid	6	U	6.	15	ug/l	51	47	10-69	10	30
Benzyl alcohol	5	U	5.	15	ug/l	85	83	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	94	82-117	1	30
Carbazole	1	U	1.	5	ug/l	102	101	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	98	99	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	53	43	42-124	21	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	96	95	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	96	97	77-108	1	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	93	93	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	83	82	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	99	97	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	99	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	100	100	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	79	81	67-108	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	75	78	63-110	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	77	79	65-113	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	68	62	49-111	8	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	104	99	80-109	5	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	101	98	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	109	107	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	84	86	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	82	84	64-120	3	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	101	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	98	100	85-115	2	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	101	99	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	99	99	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	77	80	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	65	64	10-118	1	30
Hexachloroethane	1	U	1.	5	ug/l	70	71	52-113	0	30
Isophorone	1	U	1.	5	ug/l	99	96	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	99	98	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	86	86	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	102	100	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	98	95	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	84	84	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	99	97	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	100	98	86-120	2	30
4-Nitrophenol	10	U	10.	30	ug/l	45	43	16-78	5	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	98	98	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	98	98	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	83	83	53-110	0	30
Phenol	1	U	1.	5	ug/l	52	50	29-67	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	88	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	102	99	79-107	3	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	102	81-113	0	30
Batch number: 10363SLG026	Sample number(s): 6173165-6173166,6173171,6173177									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 10363SLK026	Sample number(s): 6173160,6173163-6173169,6173171-6173177									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	101		75-122		
Aniline	170 U		170.	500	ug/kg	47		10-107		
Anthracene	17	U	17.	170	ug/kg	100		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	44		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	88		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	85		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	88		67-125		
Benzoic acid	170 U		170.	500	ug/kg	96		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	98		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	101		79-112		
Carbazole	17	U	17.	170	ug/kg	102		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	60		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	84		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		79-110		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	41		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	101		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	89		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	87		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	99		75-117		
Fluoranthene	17	U	17.	170	ug/kg	107		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	97		78-116		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	67	U	67.	170	ug/kg	101		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	104		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	87		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	98		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	91		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	107		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	101		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	109		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	77		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	84		35-106		
Phenanthrene	17	U	17.	170	ug/kg	99		77-113		
Phenol	17	U	17.	170	ug/kg	95		58-112		
Pyrene	17	U	17.	170	ug/kg	96		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	99		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		

Batch number: 10365SLA026 Sample number(s): 6173160,6173163-6173169,6173171-6173177

Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	89		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	92		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	114		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	91		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	92		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	111		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	137		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	84		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	95		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	103		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	88		56-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10357A34B	Sample number(s): 6173165-6173166,6173171,6173177									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	75	67-119	9	30
Batch number: 10363B20A	Sample number(s): 6173162,6173178									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 103610006A	Sample number(s): 6173162									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	95	91	80-120	4	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	92	89	80-120	3	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	75-125	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	75-125	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	91	89	72-117	2	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	90	88	80-120	2	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	97	80-120	3	30
HMX	0.65	U	0.65	2.0	ug/l	83	83	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	85	83	75-121	2	30
Nitroglycerin	5.2	U	5.2	15	ug/l	83	83	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	90	74-120	3	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	92	90	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	91	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	100	96	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	81	82	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	110	100	33-147	10	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	91	90	53-129	1	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	94	92	76-109	2	30
Batch number: 103650008A	Sample number(s): 6173165-6173166,6173171,6173177									
4-Amino-2,6-Dinitrotoluene	75	U	75.	150	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	50	U	50.	150	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	100	96	54-134	4	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	99	95	54-134	4	30
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	113		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	112		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	116		80-120		
HMX	130 U		130.	380	ug/kg	106		74-130		
Nitrobenzene	50	U	50.	150	ug/kg	112		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	100		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	117		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	117		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	116		80-120		
PETN	1,000 U		1,000.	3,000	ug/kg	115		80-120		
RDX	63	U	63.	150	ug/kg	111		75-131		
Tetryl	77	U	77.	150	ug/kg	136		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	127		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	118		80-120		
Batch number: 103560024A	Sample number(s): 6173162									
17b Formaldehyde by 8315A	10	U	10.	50	ug/l	88	96	69-130	9	30
Batch number: 103610005A	Sample number(s): 6173165-6173166,6173171,6173177									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	99		80-126		
Batch number: 103620008A	Sample number(s): 6173161-6173162									
2,4-D	0.16	U	0.16	0.50	ug/l	120	120	45-128	0	30
Dalapon	0.25	U	0.25	1.3	ug/l	97	98	40-100	2	30
2,4-DB	0.30	U	0.30	1.0	ug/l	112	108	41-138	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	108	104	51-144	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	60	49	23-93	21	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	160*	156*	72-145	3	30
MCPA	300 U		300.	1,000	ug/l	100	98	69-129	2	30
MCPP	50	U	50.	200	ug/l	104	100	66-132	4	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	76	84	53-141	10	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	108	108	56-135	0	30
Batch number: 110040014A	Sample number(s): 6173160,6173163-6173169,6173171-6173173									
2,4-D	1.2	U	1.2	3.6	ug/kg	78		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	56		24-89		
2,4-DB	1.1	J	0.62	1.7	ug/kg	57		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	69		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	5*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	63		60-141		
MCPA	76	U	76.	250	ug/kg	54		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	48		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	72		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	53		48-138		
Batch number: 110040016A	Sample number(s): 6173164,6173175									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 103570023A	Sample number(s): 6173161-6173162									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	133	133	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	124	134	73-147	8	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	111	121	68-128	9	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	125	71-139	8	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	126	137*	66-130	8	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	110	120	53-126	9	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	115	120	76-132	4	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	93	99	68-128	6	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	105	110	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	125	125	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	105	120	52-132	13	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	125	130	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	120	125	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	102	102	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	122	122	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	130	52-133	8	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103570024A	Sample number(s): 6173161-6173162									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	56*	64*	75-125	13	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1016	0.10	U	0.10	0.50	ug/l	110	114	68-119	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	124*	142*	68-121	14	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103640029A	Sample number(s): 6173160,6173163-6173169,6173171-6173177									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	87	75-125	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	127		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 103650029A	Sample number(s): 6173160,6173163-6173169,6173171-6173173									
Aldrin	0.066	U	0.066	0.17	ug/kg	139*		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	116		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	91		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	100		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	126		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	89		54-130		
Delta BHC	0.082	J	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	97		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	85		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	120		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	131		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	97		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	102		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	120		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	133*		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	102		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 103620004A	Sample number(s): 6173162									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	96	88	60-120	9	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	100	91	60-120	10	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	92	60-120	8	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	93	60-120	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	72	68	60-120	6	30
Batch number: 103620026A	Sample number(s): 6173165-6173166,6173171,6173177									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		66-113		
Batch number: 103630029A	Sample number(s): 6173162									
Ethanol	200 U		200.	1,000	ug/l	108	100	66-132	8	20
Isopropanol	200 U		200.	1,000	ug/l	96	92	75-125	4	20
Methanol	200 U		200.	1,000	ug/l	108	104	77-137	4	20
Batch number: 103630030A	Sample number(s): 6173165-6173166									
Ethanol	100 U		100.	500	ug/kg	98	100	75-112	3	20
Isopropanol	100 U		100.	500	ug/kg	88	90	75-125	2	20
Methanol	110 J		100.	500	ug/kg	96	98	75-134	3	20
Batch number: 103630032A	Sample number(s): 6173165-6173166,6173171,6173177									
Diethylene glycol	5.0	U	5.0	13	mg/kg	101	101	75-125	1	20
Ethylene glycol	5.0	U	5.0	13	mg/kg	84	87	75-125	4	20
Propylene glycol	5.0	U	5.0	13	mg/kg	103	104	75-125	1	20
Batch number: 103640014A	Sample number(s): 6173171,6173177									
Ethanol	100 U		100.	500	ug/kg	103		75-112		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	97		75-134		
Batch number: 103640032A	Sample number(s): 6173162									
Diethylene glycol	14	U	14.	100	mg/l	95	100	78-126	5	20
Ethylene glycol	10	U	10.	100	mg/l	95	95	80-124	0	20
Propylene glycol	10	U	10.	100	mg/l	90	90	80-120	0	20
Batch number: 103620021A	Sample number(s): 6173162									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	99	99	75-125	0	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	100	100	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	96	98	75-125	2	20
Batch number: 103640012A	Sample number(s): 6173165-6173166,6173171,6173177									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	111		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
Batch number: 103575713005	Sample number(s): 6173161-6173162									
Mercury	0.000050 U		0.00005 0	0.00020	mg/l	106	103	80-120	2	20
Batch number: 103641026002A	Sample number(s): 6173160,6173163-6173177									
Antimony	0.0583	U	0.0583	0.194	mg/kg	65		11-208		
Arsenic	0.0658	J	0.0583	0.388	mg/kg	100		80-120		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	101		82-118		
Cadmium	0.0350	U	0.0350	0.0971	mg/kg	102		82-118		
Chromium	0.117	U	0.117	0.388	mg/kg	96		80-120		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	100		82-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.0128 J	0.0101	0.194	mg/kg	100		80-120		
Nickel	0.146 J	0.0971	0.388	mg/kg	103		80-120		
Silver	0.0117 U	0.0117	0.0971	mg/kg	104		66-134		
Thallium	0.0291 U	0.0291	0.0971	mg/kg	104		81-119		
Zinc	0.544 U	0.544	2.91	mg/kg	100		78-122		
Batch number: 103641026002B	Sample number(s): 6173160,6173163-6173177								
Selenium	0.0389 J	0.0388	0.388	mg/kg	100		79-122		
Batch number: 103641026002C	Sample number(s): 6173160,6173163-6173177								
Molybdenum	0.0485 U	0.0485	0.0971	mg/kg	103		78-122		
Batch number: 103641026002D	Sample number(s): 6173160,6173163-6173177								
Barium	0.105 U	0.105	0.388	mg/kg	106		79-121		
Batch number: 103645708002	Sample number(s): 6173160,6173163-6173177								
Aluminum	5.76 J	4.88	19.4	mg/kg	99		61-110		
Boron	0.864 U	0.864	4.85	mg/kg	89		78-110		
Calcium	12.6 J	5.95	19.4	mg/kg	96		88-110		
Iron	4.57 U	4.57	19.4	mg/kg	93		61-110		
Lithium	0.21 U	0.21	1.9	mg/kg	99		80-120		
Magnesium	2.47 U	2.47	9.71	mg/kg	95		82-110		
Manganese	0.0757 U	0.0757	0.485	mg/kg	96		81-119		
Phosphorus	1.68 J	0.544	9.71	mg/kg	99		80-120		
Potassium	17.5 U	17.5	48.5	mg/kg	96		78-110		
Sodium	36.2 U	36.2	97.1	mg/kg	91		87-110		
Strontium	0.0650 J	0.0602	0.485	mg/kg	98		79-121		
Tin	0.971 U	0.971	9.71	mg/kg	99		90-114		
Titanium	0.369 U	0.369	0.971	mg/kg	90		80-120		
Zirconium	0.816 U	0.816	4.85	mg/kg	99		80-120		
Batch number: 103645711003	Sample number(s): 6173160,6173163-6173177								
Mercury	0.0028 U	0.0028	0.0979	mg/kg	100		88-123		
Batch number: 103651848001	Sample number(s): 6173161-6173162								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	95	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	96	95	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	98	98	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	99	99	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	102	102	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	97	89-110	0	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	98	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	100	100	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	97	98	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	99	98	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	102	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	99	99	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	101	100	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	101	80-120	0	20
Batch number: 103656050001A	Sample number(s): 6173161-6173162								
Antimony	0.00030 U	0.00030	0.0010	mg/l	94	102	87-110	8	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	98	102	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	103	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	102	106	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	95	97	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	101	80-120	2	20
Copper	0.00058 J	0.00038	0.0020	mg/l	100	101	90-113	1	20

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.00023 J	0.000052	0.0010	mg/l	100	99	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	105	90-113	0	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	102	104	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	107	95	89-116	12	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	94	96	80-120	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	101	102	80-120	2	20
Batch number: 103656050001B	Sample number(s): 6173161-6173162								
Selenium	0.00025 U	0.00025	0.0020	mg/l	102	102	85-114	0	20
Batch number: 103656050001C	Sample number(s): 6173161-6173162								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	101	101	80-120	0	20
Batch number: 103656050001D	Sample number(s): 6173161-6173162								
Barium	0.00038 U	0.00038	0.0020	mg/l	103	105	88-113	1	20
Batch number: 110101026002A	Sample number(s): 6173160,6173163-6173177								
Copper	0.0719 J	0.0660	0.400	mg/kg	98		80-120		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	95		90-110		
Batch number: 10356196903A	Sample number(s): 6173162								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	97	97	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	97	97	90-110	0	20
Batch number: 10357113001A	Sample number(s): 6173161-6173162								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	98	99	90-110	1	20
Batch number: 10363658701A	Sample number(s): 6173161-6173162								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	93	96	85-115	3	20
Batch number: 10364196902A	Sample number(s): 6173161								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	104	106	90-110	2	20
Batch number: 10365117102A	Sample number(s): 6173162								
21b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	107	100	90-110	6	20
Batch number: 11004102201A	Sample number(s): 6173165-6173166,6173171,6173177								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	107		80-120		
Batch number: 11013013201A	Sample number(s): 6173160,6173163-6173165								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11013013201B	Sample number(s): 6173166-6173168,6173170-6173177								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11013013203A	Sample number(s): 6173160,6173163-6173165								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	87		85-115		
Batch number: 11013013203B	Sample number(s): 6173167-6173168,6173170-6173177								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	87		85-115		
Batch number: 11017017201A	Sample number(s): 6173166								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11017243201A	Sample number(s): 6173160,6173163-6173168,6173170-6173177								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	96		80-120		
Batch number: 10361039402B	Sample number(s): 6173160,6173163-6173164								
22a pH by 9045C					100		95-105		
Batch number: 10361039403A	Sample number(s): 6173165-6173167,6173170-6173176								
22a pH by 9045C					101		95-105		
Batch number: 10361039403B	Sample number(s): 6173177								
22a pH by 9045C					101		95-105		
Batch number: 10361182102B	Sample number(s): 6173160,6173163-6173164								
Oxidation Reduction Potential					100		98-102		
Batch number: 10361182103A	Sample number(s): 6173165-6173167,6173170-6173176								
Oxidation Reduction Potential					100		98-102		
Batch number: 10361182103B	Sample number(s): 6173177								
Oxidation Reduction Potential					100		98-102		
Batch number: 11007162401B	Sample number(s): 6173160,6173163-6173164,6173167-6173170,6173172-6173176								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
Batch number: 11014162401A	Sample number(s): 6173165-6173166,6173171,6173177								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103621AA	Sample number(s): 6173165-6173166,6173171,6173174-6173175,6173177 UNSPK: 6173165								
Acetone	95		15-210						
Benzene	106		55-143						
Bromobenzene	84		43-139						
Bromochloromethane	104		60-137						
Bromodichloromethane	97		53-136						
Bromoform	85		38-124						
Bromomethane	68		42-168						
2-Butanone	87		37-163						
n-Butylbenzene	83		30-146						
sec-Butylbenzene	87		33-157						
tert-Butylbenzene	85		41-152						
Carbon Tetrachloride	107		45-153						
Chlorobenzene	92		49-135						
Chloroethane	69		39-152						
2-Chloroethyl Vinyl Ether	98		32-139						
Chloroform	105		61-142						
Chloromethane	92		51-163						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chlorotoluene	86		42-146						
4-Chlorotoluene	85		39-145						
1,2-Dibromo-3-chloropropane	73		30-139						
Dibromochloromethane	90		51-128						
1,2-Dibromoethane	91		54-129						
Dibromomethane	100		57-130						
1,2-Dichlorobenzene	79		36-133						
1,3-Dichlorobenzene	79		34-134						
1,4-Dichlorobenzene	79		35-136						
Dichlorodifluoromethane	84		26-151						
1,1-Dichloroethane	106		63-142						
1,2-Dichloroethane	102		68-131						
1,1-Dichloroethene	110		61-149						
cis-1,2-Dichloroethene	105		60-136						
trans-1,2-Dichloroethene	108		59-142						
1,2-Dichloropropane	102		62-135						
1,3-Dichloropropane	93		58-129						
2,2-Dichloropropane	101		53-147						
1,1-Dichloropropene	106		54-145						
cis-1,3-Dichloropropene	89		51-131						
trans-1,3-Dichloropropene	83		49-129						
Ethylbenzene	94		44-141						
Freon 113	112		56-156						
Hexachlorobutadiene	68		10-155						
2-Hexanone	60		32-160						
Isopropylbenzene	91		38-144						
p-Isopropyltoluene	85		29-152						
Methyl Tertiary Butyl Ether	93		55-129						
4-Methyl-2-pentanone	70		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	91		39-157						
Styrene	89		35-134						
1,1,1,2-Tetrachloroethane	94		52-130						
1,1,2,2-Tetrachloroethane	83		40-152						
Tetrachloroethene	98		42-149						
Toluene	98		50-146						
1,2,3-Trichlorobenzene	59		10-140						
1,2,4-Trichlorobenzene	58		10-136						
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	94		54-139						
Trichloroethene	102		53-144						
Trichlorofluoromethane	92		47-163						
1,2,3-Trichloropropane	84		45-154						
1,2,4-Trimethylbenzene	85		37-149						
1,3,5-Trimethylbenzene	87		38-150						
Vinyl Chloride	93		50-154						
m+p-Xylene	95		44-137						
o-Xylene	89		42-137						
Batch number: E103562AB	Sample number(s): 6173162,6173178 UNSPK: P171167								
1,4-Dioxane	109		50-150						
Batch number: 10363SLG026	Sample number(s): 6173165-6173166,6173171,6173177 UNSPK: P172090								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	69*	69*	70-130	0	30				
Batch number: 10363SLK026	Sample number(s): 6173160,6173163-6173169,6173171-6173177 UNSPK: 6173167								
Acenaphthene	95	97	75-115	2	30				
Acenaphthylene	98	99	49-126	0	30				
Aniline	60	55	14-114	8	30				
Anthracene	100	97	75-115	2	30				
Benzidine	38	49	35-141	24	30				
Benzo(a)anthracene	97	96	65-122	1	30				
Benzo(a)pyrene	86	87	57-126	2	30				
Benzo(b)fluoranthene	87	87	59-125	0	30				
Benzo(g,h,i)perylene	77	81	59-127	4	30				
Benzo(k)fluoranthene	91	89	56-132	2	30				
Benzoic acid	97	101	10-173	4	30				
Benzyl alcohol	91	88	55-123	4	30				
4-Bromophenyl-phenylether	92	91	67-129	1	30				
Butylbenzylphthalate	108	109	73-134	1	30				
Di-n-butylphthalate	97	96	67-123	1	30				
Carbazole	97	96	64-120	1	30				
4-Chloro-3-methylphenol	98	98	53-130	0	30				
4-Chloroaniline	58	55	23-95	4	30				
bis(2-Chloroethoxy)methane	98	94	54-117	4	30				
bis(2-Chloroethyl)ether	85	82	60-116	3	30				
bis(2-Chloroisopropyl)ether	86	82	55-142	5	30				
2-Chloronaphthalene	81	81	50-141	0	30				
2-Chlorophenol	97	91	73-121	6	30				
4-Chlorophenyl-phenylether	97	100	64-119	3	30				
Chrysene	94	93	62-128	1	30				
Dibenz(a,h)anthracene	83	83	65-125	1	30				
Dibenzofuran	97	97	71-112	0	30				
1,2-Dichlorobenzene	85	79	66-108	8	30				
1,3-Dichlorobenzene	78	74	63-109	6	30				
1,4-Dichlorobenzene	80	76	53-113	5	30				
3,3'-Dichlorobenzidine	75	74	25-123	1	30				
2,4-Dichlorophenol	99	98	78-117	1	30				
Diethylphthalate	95	96	66-118	1	30				
2,4-Dimethylphenol	98	98	56-130	1	30				
3,5-Dimethylphenol	104	103	70-130	1	30				
Dimethylphthalate	94	94	64-118	0	30				
4,6-Dinitro-2-methylphenol	77	76	10-148	1	30				
2,4-Dinitrophenol	71	72	20-143	1	30				
2,4-Dinitrotoluene	99	104	57-114	4	30				
2,6-Dinitrotoluene	98	100	69-123	2	30				
1,2-Diphenylhydrazine	106	102	71-129	4	30				
bis(2-Ethylhexyl)phthalate	103	103	63-122	0	30				
Fluoranthene	99	98	59-122	1	30				
Fluorene	96	97	60-125	1	30				
Hexachlorobenzene	98	98	61-111	0	30				
Hexachlorobutadiene	95	94	62-120	1	30				
Hexachlorocyclopentadiene	64	54	10-153	17	30				
Hexachloroethane	82	78	57-109	5	30				
Indeno(1,2,3-cd)pyrene	81	82	61-126	2	30				
Isophorone	94	91	51-118	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1-Methylnaphthalene	95	93	73-112	2	30				
2-Methylnaphthalene	90	87	76-114	3	30				
2-Methylphenol	94	91	47-142	3	30				
4-Methylphenol	91	87	55-126	4	30				
Naphthalene	89	86	72-116	4	30				
2-Nitroaniline	105	105	67-125	0	30				
3-Nitroaniline	98	99	59-122	1	30				
4-Nitroaniline	81	84	52-112	4	30				
Nitrobenzene	99	98	51-114	1	30				
2-Nitrophenol	98	97	74-115	1	30				
4-Nitrophenol	108	110	39-133	2	30				
N-Nitroso-di-n-propylamine	90	85	60-116	5	30				
N-Nitrosodimethylamine	78	73	47-116	6	30				
N-Nitrosodiphenylamine	96	96	86-145	1	30				
Di-n-octylphthalate	100	98	56-126	2	30				
Pentachlorophenol	84	76	17-149	10	30				
Phenanthrene	96	95	65-125	1	30				
Phenol	95	91	58-126	5	30				
Pyrene	104	108	51-151	4	30				
1,2,4-Trichlorobenzene	93	91	72-115	3	30				
2,4,5-Trichlorophenol	100	103	34-139	3	30				
2,4,6-Trichlorophenol	106	105	49-140	1	30				
Batch number: 10365SLA026	Sample number(s): 6173160,6173163-6173169,6173171-6173177 UNSPK: 6173167								
Acenaphthene	92	91	63-105	0	30				
Acenaphthylene	94	103	55-126	8	30				
Anthracene	89	88	46-136	1	30				
Benzo(a)anthracene	80	87	39-144	7	30				
Benzo(a)pyrene	77	87	34-156	10	30				
Benzo(b)fluoranthene	78	86	43-155	7	30				
Benzo(g,h,i)perylene	56	56	33-141	0	30				
Benzo(k)fluoranthene	86	100	42-144	14	30				
Butylbenzylphthalate	109	108	73-140	0	30				
Di-n-butylphthalate	100	108	78-160	6	30				
Chrysene	72	81	29-156	10	30				
Dibenz(a,h)anthracene	76	77	41-130	1	30				
Diethylphthalate	115	108	87-131	7	30				
Dimethylphthalate	106	111	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	84	99	39-167	13	30				
Fluoranthene	63	76	26-166	13	30				
Fluorene	94	94	45-121	0	30				
Indeno(1,2,3-cd)pyrene	70	71	21-143	1	30				
1-Methylnaphthalene	92	89	72-123	3	30				
2-Methylnaphthalene	85	81	28-121	5	30				
Naphthalene	90	87	61-102	3	30				
N-Nitrosodimethylamine	103	103	48-113	0	30				
Di-n-octylphthalate	104	116	40-192	11	30				
Phenanthrene	82	83	12-165	1	30				
Pyrene	54	65	15-153	12	30				
Batch number: 10357A34B	Sample number(s): 6173165-6173166,6173171,6173177 UNSPK: P172090								
9a TPH by EPA 8015B Gas C5-C12	73	74	39-118	15	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103650008A	Sample number(s): 6173165-6173166,6173171,6173177 UNSPK: P172105								
4-Amino-2,6-Dinitrotoluene	99	95	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	100	96	80-137	4	50				
1,3-Dinitrobenzene	103	98	38-166	5	50				
2,4-Dinitrotoluene	100	95	80-131	5	50				
2,6-Dinitrotoluene	105	100	80-127	5	50				
HMX	85	82	63-128	4	50				
Nitrobenzene	107	100	80-125	7	50				
Nitroglycerin	88	86	80-120	3	50				
2-Nitrotoluene	108	102	80-122	5	50				
3-Nitrotoluene	108	103	72-119	5	50				
4-Nitrotoluene	107	103	80-125	4	50				
PETN	97	93	80-121	5	50				
RDX	91	89	75-129	2	50				
Tetryl	105	101	55-174	4	50				
1,3,5-Trinitrobenzene	112	107	82-126	5	50				
2,4,6-Trinitrotoluene	102	98	82-130	4	50				
Batch number: 103610005A	Sample number(s): 6173165-6173166,6173171,6173177 UNSPK: P172090								
17a Formaldehyde by 8315A	62*	70*	80-120	3	50				
Batch number: 110040014A	Sample number(s): 6173160,6173163-6173169,6173171-6173173 UNSPK: 6173167								
2,4-D	125	117	28-161	6	35				
Dalapon	67	59	12-86	13	50				
2,4-DB	95	82	20-170	14	50				
Dicamba	105	102	33-120	2	50				
Dinoseb	12	6	1-44	69*	35				
2,4-DP (Dichlorprop)	101	98	55-141	3	50				
MCPA	103	83	31-184	22	50				
MCPP (Mecoprop)	99	80	16-174	22	50				
2,4,5-T	83	75	25-132	9	35				
2,4,5-TP	86	83	10-183	3	35				
Batch number: 110040016A	Sample number(s): 6173164,6173175 UNSPK: P167468								
6a Perchlorate EPA 6850	110	110	80-120	0	20				
Batch number: 103640029A	Sample number(s): 6173160,6173163-6173169,6173171-6173177 UNSPK: 6173167								
PCB-1016	131	167*	29-146	24	50				
PCB-1260	136	149	39-149	9	50				
Batch number: 103650029A	Sample number(s): 6173160,6173163-6173169,6173171-6173173 UNSPK: 6173167								
Aldrin	103	94	16-126	9	50				
Alpha BHC	67	61	10-129	10	50				
Beta BHC	72	66	14-147	9	50				
Gamma BHC - Lindane	76	61	10-140	22	50				
p,p-DDD	66	72	16-163	9	50				
p,p-DDE	102	102	18-161	0	50				
p,p-DDT	77	65	10-176	17	50				
Delta BHC	69	75	23-140	9	50				
Dieldrin	68	71	19-154	4	50				
Endosulfan I	55	55	16-137	0	50				
Endosulfan II	82	85	28-154	4	50				
Endosulfan Sulfate	92	108	21-160	15	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endrin	70	67	11-149	4	50				
Endrin Aldehyde	61	67	10-148	10	35				
Endrin Ketone	91	89	22-165	2	50				
Heptachlor	85	70	13-126	20	50				
Heptachlor Epoxide	94	88	13-157	7	50				
Methoxychlor	73	72	32-147	1	50				
Batch number: 103620026A	Sample number(s): 6173165-6173166,6173171,6173177 UNSPK: P172090								
EFH (C12-C14)	74	69	49-123	7	20				
EFH (C15-C20)	97	90	49-123	8	20				
EFH (C21-C30)	55	41*	49-123	11	20				
EFH (C30 - C40)	17*	-23*	49-123	29*	20				
EFH (C8-C11)	54	56	49-123	4	20				
Batch number: 103630030A	Sample number(s): 6173165-6173166 UNSPK: P173171								
Ethanol	77	72	24-143	6	20				
Isopropanol	68*	66*	75-125	3	20				
Methanol	76	74	45-136	3	20				
Batch number: 103630032A	Sample number(s): 6173165-6173166,6173171,6173177 UNSPK: 6173171								
Diethylene glycol	68	77	59-109	11	20				
Ethylene glycol	63	68	63-107	8	20				
Propylene glycol	73	80	63-107	10	20				
Batch number: 103640014A	Sample number(s): 6173171,6173177 UNSPK: P172090								
Ethanol	88	88	24-143	1	20				
Isopropanol	80	80	75-125	0	20				
Methanol	77	81	45-136	5	20				
Batch number: 103640012A	Sample number(s): 6173165-6173166,6173171,6173177 UNSPK: P172090								
m-Terphenyl	105	104	75-125	1	20				
o-Terphenyl	110	108	75-125	1	20				
p-Terphenyl	104	103	75-125	1	20				
Batch number: 103641026002A	Sample number(s): 6173160,6173163-6173177 UNSPK: 6173167 BKG: 6173167								
Antimony	32*	35*	75-125	7	20	0.104 J	0.0600 U	200* (1)	20
Arsenic	174*	113	75-125	23*	20	2.77	3.75	30*	20
Beryllium	110	97	75-125	10	20	0.347	0.417	18 (1)	20
Cadmium	109	109	75-125	2	20	0.104	0.113	8 (1)	20
Chromium	112	110	75-125	2	20	12.9	14.4	11	20
Cobalt	94	95	75-125	1	20	4.55	4.81	6	20
Lead	120	112	75-125	4	20	4.31	4.54	5	20
Nickel	118	107	75-125	7	20	8.93	10.1	12	20
Silver	108	110	75-125	0	20	0.0262 J	0.0284 J	8 (1)	20
Thallium	106	113	75-125	3	20	0.210	0.217	3 (1)	20
Zinc	115 (2)	153 (2)	75-125	6	20	49.2	50.2	2	20
Batch number: 103641026002B	Sample number(s): 6173160,6173163-6173177 UNSPK: 6173167 BKG: 6173167								
Selenium	89	89	75-125	2	20	0.109 J	0.0972 J	12 (1)	20
Batch number: 103641026002C	Sample number(s): 6173160,6173163-6173177 UNSPK: 6173167 BKG: 6173167								
Molybdenum	105	107	75-125	0	20	0.385	0.450	16 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103641026002D	Sample number(s): 6173160,6173163-6173177 UNSPK: 6173167 BKG: 6173167								
Barium	148 (2)	277 (2)	75-125	11	20	87.6	86.5	1	20
Batch number: 103645708002	Sample number(s): 6173160,6173163-6173177 UNSPK: 6173167 BKG: 6173167								
Aluminum	1246 (2)	-101 (2)	75-125	18	20	13,300	12,500	6	20
Boron	88	89	84-115	6	20	4.41 J	3.66 J	19 (1)	20
Calcium	-91 (2)	-256 (2)	75-125	18	20	4,470	2,710	49*	20
Iron	7037 (2)	90 (2)	75-125	31*	20	18,100	16,000	12	20
Lithium	104	95	82-114	3	20	19.8	18.2	9	20
Magnesium	856 (2)	153 (2)	75-125	25*	20	4,260	3,750	13	20
Manganese	207 (2)	109 (2)	75-125	14	20	243	240	1	20
Phosphorus	144*	142*	75-125	1	20	364	314	15	20
Potassium	165*	170*	75-125	3	20	2,620	2,450	7	20
Sodium	94	98	75-125	9	20	82.2 J	82.5 J	0 (1)	20
Strontium	91	87	75-115	1	20	22.0	16.6	28*	20
Tin	89	90	80-110	6	20	1.95 J	1.94 J	0 (1)	20
Titanium	393 (2)	358 (2)	75-125	1	20	973	979	1	20
Zirconium	95	96	75-125	5	20	2.59 J	2.01 J	25* (1)	20
Batch number: 103645711003	Sample number(s): 6173160,6173163-6173177 UNSPK: 6173167 BKG: 6173167								
Mercury	95	99	65-135	4	20	0.0139 J	0.0120 J	14 (1)	20
Batch number: 110101026002A	Sample number(s): 6173160,6173163-6173177 UNSPK: 6173167 BKG: 6173167								
Copper	103	102	75-125	1	20	11.6	8.43	32*	20
Vanadium	72 (2)	78 (2)	75-125	1	20	41.7	30.1	32*	20
Batch number: 11004102201A	Sample number(s): 6173165-6173166,6173171,6173177 UNSPK: 6173165 BKG: 6173165								
21a Cyanide by 9012B	110		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11013013201A	Sample number(s): 6173160,6173163-6173165 UNSPK: P172316 BKG: P172316								
11a Anions by 300.0 - Fluoride	81		80-120			0.89 J	0.81 J	10 (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			5.2	4.5	15 (1)	20
Batch number: 11013013201B	Sample number(s): 6173166-6173168,6173170-6173177 UNSPK: 6173167 BKG: 6173167								
11a Anions by 300.0 - Fluoride	79*		80-120			1.3	1.7	32* (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			0.80 U	0.81 J	200* (1)	20
Batch number: 11013013203A	Sample number(s): 6173160,6173163-6173165 UNSPK: P172316 BKG: P172316								
7a Perchlorate EPA 314.0	84		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11013013203B	Sample number(s): 6173167-6173168,6173170-6173177 UNSPK: 6173167 BKG: 6173167								
7a Perchlorate EPA 314.0	87		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11017017201A	Sample number(s): 6173166 UNSPK: 6173166 BKG: 6173166								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11017243201A	Sample number(s): 6173160,6173163-6173168,6173170-6173177 UNSPK: 6173167 BKG: 6173167								
3a Cr VI by EPA 7199	99		75-125			0.26 J	0.39 J	42* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10361039402B	Sample number(s): 6173160,6173163-6173164 BKG: P172316								
22a pH by 9045C						6.51	6.46	1	1
Batch number: 10361039403A	Sample number(s): 6173165-6173167,6173170-6173176 BKG: 6173167								
22a pH by 9045C						7.70	7.76	1	1
Batch number: 10361039403B	Sample number(s): 6173177 BKG: 6173177								
22a pH by 9045C						5.91	5.89	0	1
Batch number: 10361182102B	Sample number(s): 6173160,6173163-6173164 BKG: P172316								
Oxidation Reduction Potential						536	541	1	6
Batch number: 10361182103A	Sample number(s): 6173165-6173167,6173170-6173176 BKG: 6173167								
Oxidation Reduction Potential						459	457	0	6
Batch number: 10361182103B	Sample number(s): 6173177 BKG: 6173177								
Oxidation Reduction Potential						618	619	0	6
Batch number: 11007162401B	Sample number(s): 6173160,6173163-6173164,6173167-6173170,6173172-6173176 BKG: 6173167								
28a Moisture Content by 160.3						13.9	12.7	8	20
28a Moisture Content by 160.3						13.9	12.7	8	20
28a Moisture Content by 160.3						13.9	12.7	8	20
Batch number: 11014162401A	Sample number(s): 6173165-6173166,6173171,6173177 BKG: P182836								
28a Moisture Content by 160.3						12.3	13.1	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B103621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6173165	104	100	98	89
6173166	106	103	97	86
6173171	106	102	95	91
6173174	107	104	94	92
6173175	106	104	97	88
6173177	109	110	95	93
Blank	105	103	95	92
LCS	101	102	98	101
LCSD	100	102	99	100
MS	101	104	98	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Surrogate Quality Control

Batch number: E103562AB

	Toluene-d8
6173162	102
6173178	102
Blank	101
LCS	100
LCSD	101
MS	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103631AA

	Toluene-d8
6173165	99
6173166	98
6173171	98
6173174	99
6173175	99
6173177	99
Blank	99
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103631AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6173162	98	98	99	96
6173178	98	101	99	97
Blank	98	100	100	97
LCS	99	98	101	100
LCSD	99	99	101	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19b NDMA by 1625C
Batch number: 10362WAA026

	N-Nitrosodimethylamine-d6
6173162	148
Blank	101
LCS	97
LCSD	102
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 10362WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6173161	120	79	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Surrogate Quality Control

6173162	87	78	87
Blank	90	85	93
LCS	93	84	88
LCSD	87	80	88
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 10362WAE026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6173161	57	40	96	84	87	86
6173162	50	34	98	83	87	90
Blank	49	36	96	83	85	83
LCS	64	48	98	92	93	87
LCSD	61	47	102	93	94	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10363SLG026

	N-Nitrosodimethylamine-d6
6173165	733*
6173166	515*
6173171	592*
6173177	596*
Blank	104
LCS	110
MS	152*
MSD	151*
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10363SLK026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6173160	92	90	113	85	91	93
6173163	95	93	114	87	92	106
6173164	87	85	106	82	89	94
6173165	87	87	109	84	91	86
6173166	88	85	103	79	86	87
6173167	95	93	112	84	94	97
6173168	92	91	113	91	90	93
6173169	88	86	114	89	91	97
6173171	91	89	106	82	88	91
6173172	82	80	103	78	86	89
6173173	86	87	99	80	92	88
6173174	87	88	101	84	94	90
6173175	85	85	97	81	91	82
6173176	88	88	102	81	93	84
6173177	87	87	100	80	96	85
Blank	90	92	102	84	92	87
LCS	94	94	116	88	92	86
MS	92	91	113	91	90	93

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Surrogate Quality Control

MSD	88	86	114	89	91	97
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10365SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6173160	92	84	90
6173163	93	84	80
6173164	89	83	82
6173165	91	86	83
6173166	90	85	80
6173167	90	85	80
6173168	97	90	75
6173169	96	96	79
6173171	94	86	88
6173172	88	87	86
6173173	97	89	85
6173174	90	83	89
6173175	90	94	83
6173176	88	78	78
6173177	98	97	75
Blank	80	81	83
LCS	96	89	89
MS	97	90	75
MSD	96	96	79
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10357A34B

	Trifluorotoluene-F
6173165	82
6173166	86
6173171	103
6173177	87
Blank	96
LCS	91
LCSD	96
MS	84
MSD	85
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10363B20A

	Trifluorotoluene-F
6173162	82
6173178	84
Blank	83
LCS	106
LCSD	107
Limits:	63-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Surrogate Quality Control

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 103560024A

	Butyraldehyde
6173162	117
Blank	92
LCS	97
LCSD	102
Limits:	45-145

Analysis Name: 12b Pesticides by 8081A
Batch number: 103570023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6173161	133	127
6173162	137	135
Blank	102	107
LCS	105	115
LCSD	105	115
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103570024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6173161	127	137*
6173162	122	126*
Blank	109	107
LCS	107	104
LCSD	109	114
Limits:	30-150	45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103610005A

	Butyraldehyde
6173165	106
6173166	112
6173171	106
6173177	95
Blank	92
LCS	97
MS	102
MSD	102
Limits:	64-126

Analysis Name: 20b Energetics by 8330A
Batch number: 103610006A

	2-Nitro-m-xylene
6173162	85
Blank	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Surrogate Quality Control

LCS	97
LCSD	90
Limits:	50-134

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103620008A

	2,4-Dichlorophenylacetic acid
6173161	97
6173162	133
Blank	108
LCS	124
LCSD	114
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103640029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6173160	146*	124*
6173163	114	119
6173164	105	109
6173165	88	104
6173166	110	104
6173167	95	99
6173168	94	95
6173169	103	103
6173171	102	88
6173172	103	105
6173173	90	106
6173174	82	90
6173175	115	123*
6173176	131	129*
6173177	124	113
Blank	103	111
LCS	103	108
LCSD	130	137*
MS	94	95
MSD	103	103
Limits:	53-139	45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103650008A

	2-Nitro-m-xylene
6173165	117
6173166	122
6173171	113
6173177	118
Blank	123
LCS	120
LCSD	115
MS	121

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Surrogate Quality Control

MSD 116

Limits: 80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 103650029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6173160	75	115
6173163	71	83
6173164	40*	67
6173165	78	78
6173166	73	86
6173167	56	49
6173168	73	78
6173169	56	74
6173171	73	128*
6173172	76	57
6173173	71	95
Blank	81	116
LCS	79	116
MS	73	78
MSD	56	74
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110040014A

	2,4-Dichlorophenylacetic acid
6173160	112
6173163	116
6173164	85
6173165	101
6173166	137
6173167	112
6173168	105
6173169	89
6173171	87
6173172	88
6173173	90
Blank	107
LCS	67
MS	105
MSD	89
Limits:	36-156

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 103620004A

	Chlorobenzene	Orthoterphenyl
6173162	83	85
Blank	61	76
LCS	84	94
LCSD	79	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Surrogate Quality Control

Limits:	28-152	52-131

Analysis Name: 26b Terphenyls by 8015B
Batch number: 103620021A

	n-Triacontane-d62
6173162	99
Blank	94
LCS	90
LCSD	91

Limits:	50-150	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103620026A

	Chlorobenzene	Orthoterphenyl
6173165	60	73
6173166	69	80
6173171	60	79
6173177	52	67
Blank	75	85
LCS	79	88
MS	76	84
MSD	75	84

Limits:	37-125	47-145

Analysis Name: 25b Alcohols by 8015B
Batch number: 103630029A

	Acetone
6173162	129
Blank	124
LCS	125
LCSD	119

Limits:	54-147

Analysis Name: 25a Alcohols by 8015B
Batch number: 103630030A

	Acetone
6173165	84
6173166	87
Blank	98
LCS	96
LCSD	99
MS	86
MSD	86

Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103630032A

	Tetramethylene glycol

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226926
Reported: 02/01/11 at 10:05 AM

Surrogate Quality Control

6173165	83
6173166	86
6173171	76
6173177	85
Blank	102
LCS	107
LCSD	105
MS	76
MSD	82
Limits:	50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103640012A

n-Triacontane-d62

6173165	95
6173166	121
6173171	91
6173177	106
Blank	103
LCS	102
MS	99
MSD	98
Limits:	50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 103640014A

Acetone

6173171	73
6173177	86
Blank	99
LCS	95
MS	85
MSD	85
Limits:	42-138

Analysis Name: 27b Glycols by 8015B
Batch number: 103640032A

Tetramethylene glycol

6173162	90
Blank	97
LCS	122
LCSD	111
Limits:	10-164

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1226926 6173160-78

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-DRO EPA 8015B Mod.	*Metals EPA 6010/6020B/7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/furan EPA 1613B	*Perchlorate EPA 314.0	PercNorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP10-SA5B-QC-122210	12.22.10	0905	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									SURFACE DUP
EB08-SA5B-122210	12.22.10	1145	water	none	6-1 liter ambers			X						X	X			X	X									surface tool rinsate
EB08-SA5B-122210	12.22.10	1145	water	none	1-500 ml poly							X	X			X												surface tool rinsate
EB08-SA5B-122210	12.22.10	1145	water	HNO3	1-500 ml poly						X																	surface tool rinsate
FB06-SA5B-~~122110~~ 122210	12.22.10	1330	water	HCl	6-40 mL VOA vials	X	X																					
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	6-1 liter ambers			X						X	X			X	X									surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	1-500 ml poly							X	X			X												surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	HNO3	1-500 ml poly						X																	surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	HCl	5-40-mL VOA vials				X																		X	surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	4-40 mL VOA vials															X						X		surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	4-1L ambers					X												X	X		X			surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	1-250 mL glass bottle																X							surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	NaOH	1-500 mL poly																			X				surface tool rinsate
SED-010-SIV-SD-0.0-0.5	12.22.10	1010	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-101-SA5B-SS-0.0-0.5	12.22.10	0900	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-117-SA5B-SS-0.0-0.5	12.22.10	0925	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-117-SA5B-SS-0.0-0.5	12.22.10	0925	soil	none	1 x 16 oz. jar					X										X	X	X	X	X	X	X	X	
SL-117-SA5B-SS-0.0-0.5	12.22.10	~~0910~~ 925	soil	none	5 Encore Samplers	X	X		X																			
SL-118-SA5B-SS-0.0-0.5	12.22.10	0910	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-118-SA5B-SS-0.0-0.5	12.22.10	0910	soil	none	1 x 16 oz. jar					X										X	X	X	X	X	X	X	X	
SL-118-SA5B-SS-0.0-0.5	12.22.10	0910	soil	none	5 Encore Samplers	X	X		X																			
SL-100-SA5B-SS-0.0-0.5MS	12.22.10	0902	soil	none	2 16 oz. jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X									surface MS/MSD
SL-114-SA5B-SS-0.0-0.5	12.22.10	0922	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-114-SA5B-SS-0.0-0.5	12.22.10	0922	soil	none	1 x 16 oz. jar					X										X	X	X	X	X	X	X	X	
SL-114-SA5B-SS-0.0-0.5	~~12.22.10~~	0922	soil	none	5 Encore Samplers	X	X		X																			
SL-102-SA5B-SS-0.0-0.5	12.22.10	0936	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-024-SA5B-SS-0.0-0.5	12.22.10	1001	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-157-SA5B-SB-4.0-5.0	12.22.10	1048	soil	none	2 16 oz jars			X		X	X	X	X	X	X	X												
SL-157-SA5B-SB-4.5	12.22.10	1045	soil	none	4 Encore Samplers	X	X																					
SL-158-SA5B-SB-4.0-5.0	12.22.10	1209	soil	none	2 16 oz jars			X		X	X	X	X	X	X	X	X											
SL-158-SA5B-SB-4.5	12.22.10	1201	soil	none	4 Encore Samplers	X	X																					
SL-157 ~~SL-158~~-SA5B-SB-9.0-10.0	12.22.10	1052	soil	none	2 16 oz jars			X			X	X	X	X	X	X												
SL-145-SA5B-SB-4.0-5.0	12.22.10	1454	soil	none	4 16 oz jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-145-SA5B-SB-4.5	12.22.10	1450	soil	none	5 Encore Samplers	X	X		X																			
TB-122210	12.22.10	1300	water	HCl	4-40 mL clear VOA vials	X	X		X																			trip blank

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
	12.22.10 1630		12/23/10 1120	Lancaster Laboratories, Inc.
Relinquished by: (Signature)	Date/Time	Airbill No: Tracking Numbers 8695 1431 7947 8695 1431 7958, 8695 1431 9880, 8695 1431 9891, 8695 1432 3563		No. of coolers = 5

SL-158-SA5B-SB-9.0-10.0 was changed to SL-157-SA5B-SB-9.0-10.0, the collection date in the field blank ID was updated to 122210, and the collection time for SL-117-SA5B-SS-0.0-0.5 (encores) was updated to 9:25 per PB on 12/23/10.

NLM 12/28/10

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/23/2010
Group Number: 1226931
SDG: DX034
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP10-SA5B-QC-122210 Soil	6173197
EB08-SA5B-122210 Water	6173198
FB06-SA5B-122210 Water	6173199
SED-010-SIV-SD-0.0-0.5 Sediment	6173200
SL-101-SA5B-SS-0.0-0.5 Soil	6173201
SL-117-SA5B-SS-0.0-0.5 Soil	6173202
SL-118-SA5B-SS-0.0-0.5 Soil	6173203
SL-100-SA5B-SS-0.0-0.5 Soil	6173204
SL-100-SA5B-SS-0.0-0.5MS Soil	6173205
SL-100-SA5B-SS-0.0-0.5MSD Soil	6173206
SL-114-SA5B-SS-0.0-0.5 Soil	6173207
SL-102-SA5B-SS-0.0-0.5 Soil	6173208
SL-024-SA5B-SS-0.0-0.5 Soil	6173209
SL-157-SA5B-SB-4.0-5.0 Soil	6173210
SL-158-SA5B-SB-4.0-5.0 Soil	6173211
SL-157-SA5B-SB-9.0-10.0 Soil	6173212
SL-145-SA5B-SB-4.0-5.0 Soil	6173213

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP10-SA5B-QC-122210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173197
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP10 SDG#: DX034-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP10-SA5B-QC-122210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173197
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP10 SDG#: DX034-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	JQ	0.0284	1.16	1
11031	12378-PeCDD	40321-76-4	0.284	JQ	0.0622	5.79	1
11031	123478-HxCDD	39227-28-6	0.660	JB	0.0756	5.79	1
11031	123678-HxCDD	57653-85-7	2.62	J	0.0762	5.79	1
11031	123789-HxCDD	19408-74-3	1.12	J	0.0761	5.79	1
11031	1234678-HpCDD	35822-46-9	69.0	B	0.110	5.79	1
11031	OCDD	3268-87-9	666	B	0.0924	11.6	1
11031	2378-TCDF	51207-31-9	0.0492	U	0.0492	1.16	1
11031	12378-PeCDF	57117-41-6	0.214	JBQ	0.0151	5.79	1
11031	23478-PeCDF	57117-31-4	0.184	JB	0.0181	5.79	1
11031	123478-HxCDF	70648-26-9	0.456	JB	0.0524	5.79	1
11031	123678-HxCDF	57117-44-9	0.328	JBQ	0.0348	5.79	1
11031	123789-HxCDF	72918-21-9	0.211	JBQ	0.0429	5.79	1
11031	234678-HxCDF	60851-34-5	0.501	JB	0.0359	5.79	1
11031	1234678-HpCDF	67562-39-4	5.71	JB	0.0402	5.79	1
11031	1234789-HpCDF	55673-89-7	0.693	JB	0.0497	5.79	1
11031	OCDF	39001-02-0	19.0	B	0.0444	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	105	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP10-SA5B-QC-122210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173197
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP10 SDG#: DX034-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP10-SA5B-QC-122210 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA5B-QC-122210

LLI Sample # SW 6173197
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:05

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP10 SDG#: DX034-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 06:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB08-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5B-122210

LLI Sample # WW 6173198
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 11:45

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB08 SDG#: DX034-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.134	JBQ	0.0904	2.13	1
10915	12378-PeCDD	40321-76-4	0.132	U	0.132	10.7	1
10915	123478-HxCDD	39227-28-6	0.104	U	0.104	10.7	1
10915	123678-HxCDD	57653-85-7	0.110	U	0.110	10.7	1
10915	123789-HxCDD	19408-74-3	0.108	U	0.108	10.7	1
10915	1234678-HpCDD	35822-46-9	0.915	JB	0.158	10.7	1
10915	OCDD	3268-87-9	2.88	JBQ	0.291	21.3	1
10915	2378-TCDF	51207-31-9	0.122	JBQ	0.0724	2.13	1
10915	12378-PeCDF	57117-41-6	0.167	JBQ	0.0534	10.7	1
10915	23478-PeCDF	57117-31-4	0.512	JBQ	0.0479	10.7	1
10915	123478-HxCDF	70648-26-9	0.253	JBQ	0.0735	10.7	1
10915	123678-HxCDF	57117-44-9	0.201	JBQ	0.0711	10.7	1
10915	123789-HxCDF	72918-21-9	0.0884	U	0.0884	10.7	1
10915	234678-HxCDF	60851-34-5	0.242	JBQ	0.0701	10.7	1
10915	1234678-HpCDF	67562-39-4	0.921	JB	0.0946	10.7	1
10915	1234789-HpCDF	55673-89-7	0.383	JB	0.139	10.7	1
10915	OCDF	39001-02-0	0.642	JBQ	0.257	21.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	57	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	48	23 - 140
13C12-OCDD	35	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	28	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB08-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5B-122210

LLI Sample # WW 6173198
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 11:45

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB08 SDG#: DX034-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018001	01/20/2011 23:57	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11018001	01/18/2011 05:45	Ginelle L Haines	1

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Analysis Report

Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173199
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DFB06 SDG#: DX034-03FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.0883 U	0.0883	2.01	1
10915	12378-PeCDD	40321-76-4	0.172 JBQ	0.117	10.0	1
10915	123478-HxCDD	39227-28-6	0.0868 U	0.0868	10.0	1
10915	123678-HxCDD	57653-85-7	0.0899 U	0.0899	10.0	1
10915	123789-HxCDD	19408-74-3	0.114 JB	0.0880	10.0	1
10915	1234678-HpCDD	35822-46-9	0.685 JB	0.134	10.0	1
10915	OCDD	3268-87-9	1.83 JBQ	0.331	20.1	1
10915	2378-TCDF	51207-31-9	0.0588 U	0.0588	2.01	1
10915	12378-PeCDF	57117-41-6	0.0462 JBQ	0.0461	10.0	1
10915	23478-PeCDF	57117-31-4	0.407 JBQ	0.0439	10.0	1
10915	123478-HxCDF	70648-26-9	0.212 JBQ	0.0549	10.0	1
10915	123678-HxCDF	57117-44-9	0.115 JBQ	0.0514	10.0	1
10915	123789-HxCDF	72918-21-9	0.190 JBQ	0.0622	10.0	1
10915	234678-HxCDF	60851-34-5	0.213 JBQ	0.0527	10.0	1
10915	1234678-HpCDF	67562-39-4	0.778 JB	0.0623	10.0	1
10915	1234789-HpCDF	55673-89-7	0.127 JBQ	0.0833	10.0	1
10915	OCDF	39001-02-0	0.765 JBQ	0.198	20.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	44	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **FB06-SA5B-122210 Water**
SSFL Area IV Collocated Soil Sampling
FB06-SA5B-122210

LLI Sample # WW 6173199
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 13:30

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DFB06 SDG#: DX034-03FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018001	01/21/2011 00:54	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11018001	01/18/2011 05:45	Ginelle L Haines	1

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Analysis Report

Sample Description: **SED-010-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173200
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DSD10 SDG#: DX034-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	18.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-010-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173200
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DSD10 SDG#: DX034-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0453	J	0.0269	1.22	1
11031	12378-PeCDD	40321-76-4	0.220	JQ	0.0364	6.11	1
11031	123478-HxCDD	39227-28-6	0.127	JBQ	0.0512	6.11	1
11031	123678-HxCDD	57653-85-7	0.467	J	0.0525	6.11	1
11031	123789-HxCDD	19408-74-3	0.368	J	0.0502	6.11	1
11031	1234678-HpCDD	35822-46-9	7.16	B	0.0579	6.11	1
11031	OCDD	3268-87-9	58.4	B	0.0484	12.2	1
11031	2378-TCDF	51207-31-9	0.0486	U	0.0486	1.22	1
11031	12378-PeCDF	57117-41-6	0.169	JBQ	0.0155	6.11	1
11031	23478-PeCDF	57117-31-4	0.397	JB	0.0197	6.11	1
11031	123478-HxCDF	70648-26-9	0.287	JBQ	0.0288	6.11	1
11031	123678-HxCDF	57117-44-9	0.179	JBQ	0.0228	6.11	1
11031	123789-HxCDF	72918-21-9	0.0739	JBQ	0.0254	6.11	1
11031	234678-HxCDF	60851-34-5	0.220	JB	0.0237	6.11	1
11031	1234678-HpCDF	67562-39-4	1.09	JB	0.0226	6.11	1
11031	1234789-HpCDF	55673-89-7	0.0939	JBQ	0.0291	6.11	1
11031	OCDF	39001-02-0	2.13	JB	0.0333	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SED-010-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173200
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DSD10 SDG#: DX034-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SED-010-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-010-SIV-SD-0.0-0.5

LLI Sample # SW 6173200
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:10

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DSD10 SDG#: DX034-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 07:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173201
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL101 SDG#: DX034-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173201
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL101 SDG#: DX034-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0241	U	0.0241	1.18	1
11031	12378-PeCDD	40321-76-4	0.0462	JQ	0.0340	5.89	1
11031	123478-HxCDD	39227-28-6	0.0285	U	0.0285	5.89	1
11031	123678-HxCDD	57653-85-7	0.214	J	0.0291	5.89	1
11031	123789-HxCDD	19408-74-3	0.323	J	0.0290	5.89	1
11031	1234678-HpCDD	35822-46-9	0.567	JB	0.0405	5.89	1
11031	OCDD	3268-87-9	3.59	JB	0.0578	11.8	1
11031	2378-TCDF	51207-31-9	0.0185	U	0.0185	1.18	1
11031	12378-PeCDF	57117-41-6	0.0545	JBQ	0.00789	5.89	1
11031	23478-PeCDF	57117-31-4	0.0452	JB	0.00872	5.89	1
11031	123478-HxCDF	70648-26-9	0.0292	JBQ	0.0220	5.89	1
11031	123678-HxCDF	57117-44-9	0.0320	JBQ	0.0155	5.89	1
11031	123789-HxCDF	72918-21-9	0.303	JB	0.0174	5.89	1
11031	234678-HxCDF	60851-34-5	0.0148	U	0.0148	5.89	1
11031	1234678-HpCDF	67562-39-4	0.0516	JB	0.0196	5.89	1
11031	1234789-HpCDF	55673-89-7	0.0250	U	0.0250	5.89	1
11031	OCDF	39001-02-0	0.246	JBQ	0.0490	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173201
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL101 SDG#: DX034-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SS-0.0-0.5

LLI Sample # SW 6173201
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:00

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL101 SDG#: DX034-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 08:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173202
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL117 SDG#: DX034-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	19.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173202
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL117 SDG#: DX034-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	JQ	0.0227	1.24	1
11031	12378-PeCDD	40321-76-4	0.0485	JQ	0.0284	6.20	1
11031	123478-HxCDD	39227-28-6	0.0337	JBQ	0.0246	6.20	1
11031	123678-HxCDD	57653-85-7	0.0782	JQ	0.0264	6.20	1
11031	123789-HxCDD	19408-74-3	0.0933	JQ	0.0258	6.20	1
11031	1234678-HpCDD	35822-46-9	2.26	JB	0.0602	6.20	1
11031	OCDD	3268-87-9	33.7	B	0.0533	12.4	1
11031	2378-TCDF	51207-31-9	0.0273	U	0.0273	1.24	1
11031	12378-PeCDF	57117-41-6	0.0459	JB	0.0104	6.20	1
11031	23478-PeCDF	57117-31-4	0.0663	JBQ	0.0112	6.20	1
11031	123478-HxCDF	70648-26-9	0.0334	JBQ	0.0195	6.20	1
11031	123678-HxCDF	57117-44-9	0.0318	JBQ	0.0159	6.20	1
11031	123789-HxCDF	72918-21-9	0.0327	JB	0.0175	6.20	1
11031	234678-HxCDF	60851-34-5	0.0298	JBQ	0.0136	6.20	1
11031	1234678-HpCDF	67562-39-4	0.346	JB	0.0230	6.20	1
11031	1234789-HpCDF	55673-89-7	0.0324	JB	0.0305	6.20	1
11031	OCDF	39001-02-0	1.04	JBQ	0.0442	12.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173202
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL117 SDG#: DX034-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SS-0.0-0.5

LLI Sample # SW 6173202
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:25

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL117 SDG#: DX034-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 09:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173203
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL118 SDG#: DX034-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173203
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL118 SDG#: DX034-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0268	U	0.0268	1.18	1
11031	12378-PeCDD	40321-76-4	0.0471	JQ	0.0309	5.90	1
11031	123478-HxCDD	39227-28-6	0.124	JB	0.0488	5.90	1
11031	123678-HxCDD	57653-85-7	0.390	JQ	0.0482	5.90	1
11031	123789-HxCDD	19408-74-3	0.318	J	0.0467	5.90	1
11031	1234678-HpCDD	35822-46-9	9.38	B	0.0594	5.90	1
11031	OCDD	3268-87-9	118	B	0.0690	11.8	1
11031	2378-TCDF	51207-31-9	0.0377	JBQ	0.0367	1.18	1
11031	12378-PeCDF	57117-41-6	0.104	JB	0.0178	5.90	1
11031	23478-PeCDF	57117-31-4	0.287	JBQ	0.0170	5.90	1
11031	123478-HxCDF	70648-26-9	0.134	JB	0.0382	5.90	1
11031	123678-HxCDF	57117-44-9	0.127	JBQ	0.0301	5.90	1
11031	123789-HxCDF	72918-21-9	0.200	JBQ	0.0297	5.90	1
11031	234678-HxCDF	60851-34-5	0.0877	JBQ	0.0282	5.90	1
11031	1234678-HpCDF	67562-39-4	1.29	JB	0.0290	5.90	1
11031	1234789-HpCDF	55673-89-7	0.157	JBQ	0.0320	5.90	1
11031	OCDF	39001-02-0	4.02	JB	0.0435	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173203
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL118 SDG#: DX034-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SS-0.0-0.5

LLI Sample # SW 6173203
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:10

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL118 SDG#: DX034-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 09:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173204
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173204
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0276	U	0.0276	1.16	1
11031	12378-PeCDD	40321-76-4	0.147	JQ	0.0597	5.81	1
11031	123478-HxCDD	39227-28-6	0.336	JB	0.0827	5.81	1
11031	123678-HxCDD	57653-85-7	1.72	J	0.0849	5.81	1
11031	123789-HxCDD	19408-74-3	0.723	J	0.0810	5.81	1
11031	1234678-HpCDD	35822-46-9	53.1	B	0.102	5.81	1
11031	OCDD	3268-87-9	707	B	0.0952	11.6	1
11031	2378-TCDF	51207-31-9	0.0431	U	0.0431	1.16	1
11031	12378-PeCDF	57117-41-6	0.160	JBQ	0.0142	5.81	1
11031	23478-PeCDF	57117-31-4	0.208	JB	0.0160	5.81	1
11031	123478-HxCDF	70648-26-9	0.324	JB	0.0364	5.81	1
11031	123678-HxCDF	57117-44-9	0.215	JBQ	0.0298	5.81	1
11031	123789-HxCDF	72918-21-9	0.135	JBQ	0.0358	5.81	1
11031	234678-HxCDF	60851-34-5	0.335	JB	0.0321	5.81	1
11031	1234678-HpCDF	67562-39-4	4.69	JB	0.0357	5.81	1
11031	1234789-HpCDF	55673-89-7	0.499	JB	0.0487	5.81	1
11031	OCDF	39001-02-0	11.8	B	0.0373	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173204
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173204
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 10:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173205
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173205
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.4		0.0365	1.16	1
11031	12378-PeCDD	40321-76-4	119		0.0878	5.81	1
11031	123478-HxCDD	39227-28-6	112	B	0.0827	5.81	1
11031	123678-HxCDD	57653-85-7	117		0.0890	5.81	1
11031	123789-HxCDD	19408-74-3	115		0.0884	5.81	1
11031	1234678-HpCDD	35822-46-9	173	B	0.110	5.81	1
11031	OCDD	3268-87-9	862	B	0.0952	11.6	1
11031	2378-TCDF	51207-31-9	22.9	B	0.0602	1.16	1
11031	12378-PeCDF	57117-41-6	110	B	0.0235	5.81	1
11031	23478-PeCDF	57117-31-4	110	B	0.0253	5.81	1
11031	123478-HxCDF	70648-26-9	115	B	0.0656	5.81	1
11031	123678-HxCDF	57117-44-9	112	B	0.0535	5.81	1
11031	123789-HxCDF	72918-21-9	114	B	0.0566	5.81	1
11031	234678-HxCDF	60851-34-5	117	B	0.0525	5.81	1
11031	1234678-HpCDF	67562-39-4	120	B	0.0628	5.81	1
11031	1234789-HpCDF	55673-89-7	117	B	0.0779	5.81	1
11031	OCDF	39001-02-0	243	B	0.0746	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173205
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173205
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 11:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173206
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173206
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.3		0.0437	1.16	1
11031	12378-PeCDD	40321-76-4	116		0.0879	5.81	1
11031	123478-HxCDD	39227-28-6	114	B	0.119	5.81	1
11031	123678-HxCDD	57653-85-7	116		0.122	5.81	1
11031	123789-HxCDD	19408-74-3	113		0.121	5.81	1
11031	1234678-HpCDD	35822-46-9	169	B	0.140	5.81	1
11031	OCDD	3268-87-9	806	B	0.119	11.6	1
11031	2378-TCDF	51207-31-9	23.4	B	0.0628	1.16	1
11031	12378-PeCDF	57117-41-6	109	B	0.0286	5.81	1
11031	23478-PeCDF	57117-31-4	110	B	0.0300	5.81	1
11031	123478-HxCDF	70648-26-9	116	B	0.0884	5.81	1
11031	123678-HxCDF	57117-44-9	114	B	0.0721	5.81	1
11031	123789-HxCDF	72918-21-9	115	B	0.0826	5.81	1
11031	234678-HxCDF	60851-34-5	113	B	0.0692	5.81	1
11031	1234678-HpCDF	67562-39-4	120	B	0.0639	5.81	1
11031	1234789-HpCDF	55673-89-7	117	B	0.0760	5.81	1
11031	OCDF	39001-02-0	243	B	0.0672	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173206
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SS-0.0-0.5

LLI Sample # SW 6173206
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:02

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL100 SDG#: DX034-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 12:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-114-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173207
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL114 SDG#: DX034-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	19.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173207
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL114 SDG#: DX034-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0498	JQ	0.0228	1.25	1
11031	12378-PeCDD	40321-76-4	0.253	J	0.0355	6.23	1
11031	123478-HxCDD	39227-28-6	0.285	JBQ	0.0636	6.23	1
11031	123678-HxCDD	57653-85-7	0.969	J	0.0651	6.23	1
11031	123789-HxCDD	19408-74-3	0.758	J	0.0651	6.23	1
11031	1234678-HpCDD	35822-46-9	30.3	B	0.0914	6.23	1
11031	OCDD	3268-87-9	423	B	0.0777	12.5	1
11031	2378-TCDF	51207-31-9	0.0312	JBQ	0.0307	1.25	1
11031	12378-PeCDF	57117-41-6	0.183	JB	0.0142	6.23	1
11031	23478-PeCDF	57117-31-4	0.148	JBQ	0.0151	6.23	1
11031	123478-HxCDF	70648-26-9	0.331	JB	0.0352	6.23	1
11031	123678-HxCDF	57117-44-9	0.295	JB	0.0315	6.23	1
11031	123789-HxCDF	72918-21-9	0.224	JBQ	0.0300	6.23	1
11031	234678-HxCDF	60851-34-5	0.249	JB	0.0294	6.23	1
11031	1234678-HpCDF	67562-39-4	3.19	JB	0.0362	6.23	1
11031	1234789-HpCDF	55673-89-7	0.372	JBQ	0.0471	6.23	1
11031	OCDF	39001-02-0	10.4	JB	0.0369	12.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	86	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173207
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL114 SDG#: DX034-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SS-0.0-0.5

LLI Sample # SW 6173207
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:22

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL114 SDG#: DX034-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 16:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173208
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL102 SDG#: DX034-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173208
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL102 SDG#: DX034-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226	U	0.0226	1.13	1
11031	12378-PeCDD	40321-76-4	0.140	J	0.0379	5.65	1
11031	123478-HxCDD	39227-28-6	0.274	JBQ	0.0592	5.65	1
11031	123678-HxCDD	57653-85-7	0.993	J	0.0583	5.65	1
11031	123789-HxCDD	19408-74-3	0.633	J	0.0525	5.65	1
11031	1234678-HpCDD	35822-46-9	31.0	B	0.0832	5.65	1
11031	OCDD	3268-87-9	477	B	0.0794	11.3	1
11031	2378-TCDF	51207-31-9	0.0606	JBQ	0.0428	1.13	1
11031	12378-PeCDF	57117-41-6	0.124	JBQ	0.0154	5.65	1
11031	23478-PeCDF	57117-31-4	0.122	JBQ	0.0176	5.65	1
11031	123478-HxCDF	70648-26-9	0.321	JBQ	0.0461	5.65	1
11031	123678-HxCDF	57117-44-9	0.270	JBQ	0.0338	5.65	1
11031	123789-HxCDF	72918-21-9	0.154	JB	0.0304	5.65	1
11031	234678-HxCDF	60851-34-5	0.267	JB	0.0278	5.65	1
11031	1234678-HpCDF	67562-39-4	4.65	JB	0.0458	5.65	1
11031	1234789-HpCDF	55673-89-7	0.487	JB	0.0423	5.65	1
11031	OCDF	39001-02-0	15.7	B	0.0354	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173208
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL102 SDG#: DX034-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5B-SS-0.0-0.5

LLI Sample # SW 6173208
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 09:36

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL102 SDG#: DX034-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 17:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173209
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL024 SDG#: DX034-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	20.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173209
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL024 SDG#: DX034-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0193	U	0.0193	1.25	1
11031	12378-PeCDD	40321-76-4	0.104	J	0.0262	6.27	1
11031	123478-HxCDD	39227-28-6	0.156	JB	0.0466	6.27	1
11031	123678-HxCDD	57653-85-7	0.372	J	0.0464	6.27	1
11031	123789-HxCDD	19408-74-3	0.299	J	0.0445	6.27	1
11031	1234678-HpCDD	35822-46-9	8.82	B	0.0561	6.27	1
11031	OCDD	3268-87-9	80.2	B	0.0553	12.5	1
11031	2378-TCDF	51207-31-9	0.0363	JBQ	0.0330	1.25	1
11031	12378-PeCDF	57117-41-6	0.122	JBQ	0.0123	6.27	1
11031	23478-PeCDF	57117-31-4	0.109	JBQ	0.0135	6.27	1
11031	123478-HxCDF	70648-26-9	0.202	JB	0.0356	6.27	1
11031	123678-HxCDF	57117-44-9	0.154	JB	0.0257	6.27	1
11031	123789-HxCDF	72918-21-9	0.227	JB	0.0276	6.27	1
11031	234678-HxCDF	60851-34-5	0.228	JB	0.0228	6.27	1
11031	1234678-HpCDF	67562-39-4	0.949	JB	0.0273	6.27	1
11031	1234789-HpCDF	55673-89-7	0.228	JB	0.0357	6.27	1
11031	OCDF	39001-02-0	2.68	JB	0.0425	12.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173209
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL024 SDG#: DX034-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SS-0.0-0.5

LLI Sample # SW 6173209
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:01

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL024 SDG#: DX034-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 18:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-157-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173210
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL157 SDG#: DX034-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-157-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173210
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL157 SDG#: DX034-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0180	U	0.0180	1.10	1
11031	12378-PeCDD	40321-76-4	0.0595	JQ	0.0232	5.49	1
11031	123478-HxCDD	39227-28-6	0.0315	JBQ	0.0279	5.49	1
11031	123678-HxCDD	57653-85-7	0.416	JQ	0.0261	5.49	1
11031	123789-HxCDD	19408-74-3	0.557	J	0.0233	5.49	1
11031	1234678-HpCDD	35822-46-9	1.24	JB	0.0349	5.49	1
11031	OCDD	3268-87-9	19.6	B	0.0430	11.0	1
11031	2378-TCDF	51207-31-9	0.0410	JBQ	0.0234	1.10	1
11031	12378-PeCDF	57117-41-6	0.108	JB	0.00823	5.49	1
11031	23478-PeCDF	57117-31-4	0.113	JB	0.0104	5.49	1
11031	123478-HxCDF	70648-26-9	0.0722	JBQ	0.0293	5.49	1
11031	123678-HxCDF	57117-44-9	0.0787	JBQ	0.0182	5.49	1
11031	123789-HxCDF	72918-21-9	0.324	JBQ	0.0172	5.49	1
11031	234678-HxCDF	60851-34-5	0.0783	JBQ	0.0156	5.49	1
11031	1234678-HpCDF	67562-39-4	0.213	JB	0.0184	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0557	JB	0.0231	5.49	1
11031	OCDF	39001-02-0	0.566	JBQ	0.0403	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-157-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173210
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL157 SDG#: DX034-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-157-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-4.0-5.0

LLI Sample # SW 6173210
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:48

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL157 SDG#: DX034-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 19:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-158-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173211
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1584 SDG#: DX034-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-158-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173211
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1584 SDG#: DX034-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0192	U	0.0192	1.11	1
11031	12378-PeCDD	40321-76-4	0.0711	J	0.0254	5.54	1
11031	123478-HxCDD	39227-28-6	0.0288	U	0.0288	5.54	1
11031	123678-HxCDD	57653-85-7	0.380	J	0.0293	5.54	1
11031	123789-HxCDD	19408-74-3	0.742	J	0.0271	5.54	1
11031	1234678-HpCDD	35822-46-9	0.636	JBQ	0.0316	5.54	1
11031	OCDD	3268-87-9	9.91	JB	0.0299	11.1	1
11031	2378-TCDF	51207-31-9	0.0213	U	0.0213	1.11	1
11031	12378-PeCDF	57117-41-6	0.0608	JBQ	0.0103	5.54	1
11031	23478-PeCDF	57117-31-4	0.0667	JBQ	0.0114	5.54	1
11031	123478-HxCDF	70648-26-9	0.0499	JBQ	0.0186	5.54	1
11031	123678-HxCDF	57117-44-9	0.0743	JBQ	0.0145	5.54	1
11031	123789-HxCDF	72918-21-9	0.441	JB	0.0162	5.54	1
11031	234678-HxCDF	60851-34-5	0.0421	JB	0.0139	5.54	1
11031	1234678-HpCDF	67562-39-4	0.119	JBQ	0.0150	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0346	JBQ	0.0178	5.54	1
11031	OCDF	39001-02-0	0.258	JB	0.0253	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-158-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173211
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1584 SDG#: DX034-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-158-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5B-SB-4.0-5.0

LLI Sample # SW 6173211
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 12:09

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1584 SDG#: DX034-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 20:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-157-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173212
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1589 SDG#: DX034-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-157-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173212
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1589 SDG#: DX034-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0194 JQ	0.0171	1.11	1
11031	12378-PeCDD	40321-76-4	0.0256 JQ	0.0204	5.57	1
11031	123478-HxCDD	39227-28-6	0.0248 JBQ	0.0183	5.57	1
11031	123678-HxCDD	57653-85-7	0.0946 JQ	0.0184	5.57	1
11031	123789-HxCDD	19408-74-3	0.199 JQ	0.0179	5.57	1
11031	1234678-HpCDD	35822-46-9	0.294 JB	0.0279	5.57	1
11031	OCDD	3268-87-9	1.64 JB	0.0320	11.1	1
11031	2378-TCDF	51207-31-9	0.0128 U	0.0128	1.11	1
11031	12378-PeCDF	57117-41-6	0.0315 JBQ	0.00702	5.57	1
11031	23478-PeCDF	57117-31-4	0.0464 JBQ	0.00758	5.57	1
11031	123478-HxCDF	70648-26-9	0.0361 JB	0.0158	5.57	1
11031	123678-HxCDF	57117-44-9	0.0250 JBQ	0.0118	5.57	1
11031	123789-HxCDF	72918-21-9	0.169 JB	0.0129	5.57	1
11031	234678-HxCDF	60851-34-5	0.0117 JBQ	0.0111	5.57	1
11031	1234678-HpCDF	67562-39-4	0.0436 JB	0.0129	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0415 JBQ	0.0172	5.57	1
11031	OCDF	39001-02-0	0.141 JB	0.0247	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-157-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173212
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1589 SDG#: DX034-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-157-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5B-SB-9.0-10.0

LLI Sample # SW 6173212
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 10:52

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1589 SDG#: DX034-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 21:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11007162401B	01/07/2011 20:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173213
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1454 SDG#: DX034-15*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-145-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173213
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1454 SDG#: DX034-15*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0161	U	0.0161	1.14	1
11031	12378-PeCDD	40321-76-4	0.0271	J	0.0260	5.72	1
11031	123478-HxCDD	39227-28-6	0.0196	U	0.0196	5.72	1
11031	123678-HxCDD	57653-85-7	0.126	JQ	0.0193	5.72	1
11031	123789-HxCDD	19408-74-3	0.182	JQ	0.0191	5.72	1
11031	1234678-HpCDD	35822-46-9	0.251	JB	0.0280	5.72	1
11031	OCDD	3268-87-9	1.37	JBQ	0.0307	11.4	1
11031	2378-TCDF	51207-31-9	0.0127	U	0.0127	1.14	1
11031	12378-PeCDF	57117-41-6	0.0333	JBQ	0.00709	5.72	1
11031	23478-PeCDF	57117-31-4	0.0551	JBQ	0.00847	5.72	1
11031	123478-HxCDF	70648-26-9	0.0352	JBQ	0.0192	5.72	1
11031	123678-HxCDF	57117-44-9	0.0161	JB	0.0124	5.72	1
11031	123789-HxCDF	72918-21-9	0.268	JB	0.0119	5.72	1
11031	234678-HxCDF	60851-34-5	0.0315	JB	0.0114	5.72	1
11031	1234678-HpCDF	67562-39-4	0.0803	JBQ	0.0168	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0257	JBQ	0.0167	5.72	1
11031	OCDF	39001-02-0	0.134	JB	0.0244	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-145-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173213
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1454 SDG#: DX034-15*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-145-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5B-SB-4.0-5.0

LLI Sample # SW 6173213
LLI Group # 1226931
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/22/2010 14:54

Submitted: 12/23/2010 11:20
Reported: 02/10/2011 17:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1454 SDG#: DX034-15*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11018002	01/30/2011 22:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11018002	01/18/2011 12:20	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226931
Reported: 02/10/11 at 05:15 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11007162401B	Sample number(s): 6173197,6173200-6173201,6173204-6173206,6173208-6173212								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11014162401A	Sample number(s): 6173202-6173203,6173207,6173213								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11018001	Sample number(s): 6173198-6173199								
2378-TCDD	0.196 J	0.0833	2.00	pg/l	85		67-158		
12378-PeCDD	0.436 J	0.126	10.0	pg/l	89		70-142		
123478-HxCDD	0.582 J	0.115	10.0	pg/l	93		70-164		
123678-HxCDD	0.636 J	0.118	10.0	pg/l	91		76-134		
123789-HxCDD	0.695 J	0.115	10.0	pg/l	93		64-162		
1234678-HpCDD	2.11 J	0.199	10.0	pg/l	97		70-140		
OCDD	7.03 J	0.430	20.0	pg/l	108		78-144		
2378-TCDF	0.133 J	0.0727	2.00	pg/l	86		75-158		
12378-PeCDF	0.316 J	0.0483	10.0	pg/l	90		80-134		
23478-PeCDF	0.610 J	0.0452	10.0	pg/l	88		68-160		
123478-HxCDF	0.509 J	0.0809	10.0	pg/l	91		72-134		
123678-HxCDF	0.532 J	0.0749	10.0	pg/l	89		84-130		
123789-HxCDF	0.680 J	0.0917	10.0	pg/l	88		78-130		
234678-HxCDF	0.551 J	0.0781	10.0	pg/l	89		70-156		
1234678-HpCDF	1.21 J	0.0929	10.0	pg/l	96		82-122		
1234789-HpCDF	0.676 J	0.129	10.0	pg/l	95		78-138		
OCDF	3.35 J	0.351	20.0	pg/l	106		63-170		
Batch number: 11018002	Sample number(s): 6173197,6173200-6173213								
2378-TCDD	0.0201 U	0.0201	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0240 U	0.0240	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0290 J	0.0244	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0249 U	0.0249	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0239 U	0.0239	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.244 J	0.0439	5.00	ng/kg	98		70-140		
OCDD	0.827 J	0.0486	10.0	ng/kg	101		78-144		
2378-TCDF	0.0195 J	0.0156	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0353 J	0.00680	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0543 J	0.00880	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0386 J	0.0146	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0440 J	0.0119	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0458 J	0.0145	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0450 J	0.0125	5.00	ng/kg	99		70-156		
1234678-HpCDF	0.0317 J	0.0202	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0484 J	0.0319	5.00	ng/kg	101		78-138		
OCDF	0.165 J	0.0371	10.0	ng/kg	100		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226931
Reported: 02/10/11 at 05:15 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11007162401B	Sample number(s): 6173197,6173200-6173201,6173204-6173206,6173208-6173212 BKG: P173167								
28a Moisture Content by 160.3						13.9	12.7	8	20
Batch number: 11014162401A	Sample number(s): 6173202-6173203,6173207,6173213 BKG: P182836								
28a Moisture Content by 160.3						12.3	13.1	6	20
Batch number: 11018002	Sample number(s): 6173197,6173200-6173213 UNSPK: 6173204								
2378-TCDD	96	100	67-158	4	25				
12378-PeCDD	102	100	70-142	2	25				
123478-HxCDD	96	98	70-164	1	25				
123678-HxCDD	99	98	76-134	1	25				
123789-HxCDD	98	96	64-162	2	25				
1234678-HpCDD	103	100	70-140	2	25				
OCDD	67*	43*	78-144	7	25				
2378-TCDF	98	101	75-158	2	25				
12378-PeCDF	95	94	80-134	1	25				
23478-PeCDF	94	95	68-160	1	25				
123478-HxCDF	99	100	72-134	1	25				
123678-HxCDF	96	98	84-130	2	25				
123789-HxCDF	98	99	78-130	1	25				
234678-HxCDF	101	97	70-156	3	25				
1234678-HpCDF	99	100	82-122	1	25				
1234789-HpCDF	100	100	78-138	0	25				
OCDF	100	99	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11018001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6173198	60	62	58	58	58	54
6173199	68	71	68	69	69	66
Blank	89	94	89	90	90	86
OPR	69	76	76	75	75	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226931
Reported: 02/10/11 at 05:15 PM

Surrogate Quality Control

6173198	50	42	28	81	59	58
6173199	61	54	37	79	69	72
Blank	71	62	37	96	88	89
OPR	59	50	28	82	73	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6173198	57	57	48	35	66	60
6173199	70	70	59	44	72	71
Blank	86	86	66	41	95	93
OPR	72	71	53	30	75	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11018002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6173197	82	82	57	81	77	72
6173200	83	75	65	82	75	77
6173201	70	66	48	66	66	60
6173202	75	70	59	73	78	72
6173203	74	71	55	68	71	73
6173204	74	75	70	85	77	75
6173205	79	75	65	79	76	79
6173206	90	82	72	88	87	80
6173207	85	76	70	80	80	88
6173208	79	73	48	66	75	78
6173209	85	73	50	69	75	69
6173210	86	72	41	64	75	71
6173211	83	70	56	73	73	71
6173212	80	70	57	72	73	70
6173213	76	68	44	67	70	74
Blank	77	74	70	89	78	74
MS	79	75	65	79	76	79
MSD	90	82	72	88	87	80
OPR	73	72	68	80	78	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6173197	73	67	67	94	83	80
6173200	74	67	72	91	77	81
6173201	59	55	53	81	64	69
6173202	70	63	65	84	72	80
6173203	62	68	70	82	69	72
6173204	81	73	79	87	76	83
6173205	73	70	71	86	72	81
6173206	76	76	75	99	82	90
6173207	81	75	86	91	78	83
6173208	57	73	75	85	72	73
6173209	65	61	58	85	74	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1226931
Reported: 02/10/11 at 05:15 PM

Surrogate Quality Control

6173210	60	57	55	90	77	72
6173211	72	73	74	86	72	78
6173212	70	64	63	91	70	76
6173213	57	69	74	81	69	70
Blank	87	66	67	90	78	84
MS	73	70	71	86	72	81
MSD	76	76	75	99	82	90
OPR	80	69	68	88	72	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6173197	83	82	84	87	81	105
6173200	79	81	81	85	81	96
6173201	70	71	70	64	70	76
6173202	79	79	76	77	76	79
6173203	74	75	73	73	76	74
6173204	83	80	83	86	78	89
6173205	79	79	80	81	79	85
6173206	91	91	84	80	92	91
6173207	84	84	82	92	82	87
6173208	76	79	79	83	82	89
6173209	81	83	81	80	78	86
6173210	80	86	79	79	80	97
6173211	78	81	89	89	76	81
6173212	79	80	81	79	80	81
6173213	74	75	77	81	75	87
Blank	86	86	83	89	75	95
MS	79	79	80	81	79	85
MSD	91	91	84	80	92	91
OPR	82	83	78	76	72	82
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1226931 6173197-213

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature) [signature] Date/Time 12.22.10 1630

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-DRO EPA 8015B	**TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP10-SA5B-QC-122210	12.22.10	0905	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									SURFACE DUP
EB08-SA5B-122210	12.22.10	1145	water	none	6-1 liter ambers			X						X	X			X	X									surface tool rinsate
EB08-SA5B-122210	12.22.10	1145	water	none	1-500 ml poly							X	X			X												surface tool rinsate
EB08-SA5B-122210	12.22.10	1145	water	HNO3	1-500 ml poly						X																	surface tool rinsate
FB06-SA5B-~~122110~~ 122210	12.22.10	1330	water	HCl	6-40 mL VOA vials	X	X							X	X														
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	6-1 liter ambers			X						X	X			X	X									surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	1-500 ml poly							X	X			X												surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	HNO3	1-500 ml poly						X																	surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	HCl	5-40-mL VOA vials				X																		X	surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	4-40 mL VOA vials															X						X		surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	4-1L ambers					X												X	X			X		surface tool rinsate
FB06-SA5B-~~122110~~	12.22.10	1330	water	none	1-250 mL glass bottle																X							surface tool rinsate
FB06-SA5B-~~122110~~ ✓	12.22.10	1330	water	NaOH	1-500 mL poly																			X				surface tool rinsate
SED-010-SIV-SD-0.0-0.5	12.22.10	1010	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-101-SA5B-SS-0.0-0.5	12.22.10	0900	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X	X	X	X									
SL-117-SA5B-SS-0.0-0.5	12.22.10	0925	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-117-SA5B-SS-0.0-0.5	12.22.10	0925	soil	none	1 x 16 oz. Jar					X										X	X	X	X	X	X	X	X	
SL-117-SA5B-SS-0.0-0.5	12.22.10	0910	soil	none	5 Encore Samplers	X	X		X																			
SL-118-SA5B-SS-0.0-0.5	12.22.10	0910	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-118-SA5B-SS-0.0-0.5	12.22.10	0910	soil	none	1 x 16 oz. Jar					X										X	X	X	X	X	X	X	X	
SL-118-SA5B-SS-0.0-0.5	12.22.10	0910	soil	none	5 Encore Samplers	X	X		X																			
SL-100-SA5B-SS-0.0-0.5MS	12.22.10	0902	soil	none	2 16 oz. Jars & 2 6" sleeves			X			X	X	X	X	X	X		X	X									surface MS/MSD
SL-114-SA5B-SS-0.0-0.5	12.22.10	0922	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-114-SA5B-SS-0.0-0.5	12.22.10	0922	soil	none	1 x 16 oz. Jar					X										X	X	X	X	X	X	X	X	
SL-114-SA5B-SS-0.0-0.5	12.22.10	0922	soil	none	5 Encore Samplers	X	X		X																			
SL-102-SA5B-SS-0.0-0.5	12.22.10	0936	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-024-SA5B-SS-0.0-0.5	12.22.10	1001	soil	none	1 x 16 oz. Jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-157-SA5B-SB-4.0-5.0	12.22.10	1048	soil	none	2 16 oz jars			X		X	X	X	X	X	X	X												
SL-157-SA5B-SB-4.5	12.22.10	1045	soil	none	4 Encore Samplers	X	X																					
SL-158-SA5B-SB-4.0-5.0	12.22.10	1209	soil	none	2 16 oz jars			X		X	X	X	X	X	X	X	X											
SL-158-SA5B-SB-4.5	12.22.10	1201	soil	none	4 Encore Samplers	X	X																					
SL-~~158~~-SA5B-SB-9.0-10.0	12.22.10	1052	soil	none	2 16 oz jars			X			X	X	X	X	X	X												
SL-145-SA5B-SB-4.0-5.0	12.22.10	1454	soil	none	4 16 oz jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-145-SA5B-SB-4.5	12.22.10	1450	soil	none	5 Encore Samplers	X	X		X																			
TB-122210	12.22.10	1300	water	HCl	4-40 mL clear VOA vials	X	X		X																			trip blank

SL-157

Relinquished by: (Signature) [signature] Date/Time 12.22.10 1630

Received for Laboratory by: (Signature) [signature] Date/Time 12/23/10 1610

Laboratory: Lancaster Laboratories, Inc.

Relinquished by: (Signature) Date/Time

Airbill No.: Tracking Numbers 8695 1431 7947 8695 1431 7958, 8695 1431 9880, 8695 1431 9891, 8695 1432 3563

No. of coolers = 5

SL-158-SA5B-SB-9.0-10.0 was updated to SL-157-SA5B-SB-9.0-10.0 and the collection date in the FB ID was changed to 122210 per PB on 12/23/10.

NLM 12/29/10

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/05/2011
Group Number: 1227827
SDG: DE052
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-146-SA5B-SB-4.0-5.0 Soil	6177800
SL-140-SA5C-SS-0.0-0.5 Soil	6177801
SL-039-SA5C-SS-0.0-0.5 Soil	6177802
SL-036-SA5C-SS-0.0-0.5 Soil	6177803
SL-097-SA5C-SS-0.0-0.5 Soil	6177804
SL-259-SA5B-SB-4.0-5.0 Soil	6177805
SL-056-SA5C-SB-4.0-5.0 Soil	6177806
SL-056-SA5C-SB-9.0-10.0 Soil	6177807
TB-010411 Water	6177808

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Tracy A. Cole
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.8
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.8
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.8
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.8
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.8
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.8
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.8
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.8
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.8
06192	Methylene Chloride	75-09-2	0.39	J	0.22	3.7		0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.8

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.8
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.8
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	25.8	J	19.3	38.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1

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Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.76
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-146-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.69	22.6		1
07914	Boron	7440-42-8	1.42	J	1.01	5.66		1
01650	Calcium	7440-70-2	3,460		6.94	22.6		1
01654	Iron	7439-89-6	23,000		5.33	22.6		1
01656	Lithium	7439-93-2	28.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,750		2.88	11.3		1
06958	Manganese	7439-96-5	380		0.0883	0.566		1
10145	Phosphorus	7723-14-0	343		0.634	11.3		1
01662	Potassium	7440-09-7	2,720		20.4	56.6		1
01667	Sodium	7440-23-5	228		42.2	113		1
07968	Strontium	7440-24-6	22.5		0.0702	0.566		1
06969	Tin	7440-31-5	3.05	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,370		0.430	1.13		1
10146	Zirconium	7440-67-7	2.27	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.200	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.47		0.0679	0.453		2
06126	Barium	7440-39-3	118		0.122	0.453		2
06127	Beryllium	7440-41-7	0.852		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0987	J	0.0408	0.113		2
06131	Chromium	7440-47-3	26.3		0.136	0.453		2
06132	Cobalt	7440-48-4	6.95		0.0226	0.113		2
06133	Copper	7440-50-8	9.78		0.0747	0.453		2
06135	Lead	7439-92-1	7.69		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.824		0.0566	0.113		2
06139	Nickel	7440-02-0	16.4		0.113	0.453		2
06141	Selenium	7782-49-2	0.155	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0461	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.333		0.0340	0.113		2
06148	Vanadium	7440-62-2	55.4		0.0249	0.113		2
06149	Zinc	7440-66-6	63.7		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	J	0.0033	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.92	1.7		1

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Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	452		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-146-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011	18:14	Chelsea B Eastep	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011	19:03	Sara E Johnson	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100523447	01/05/2011	19:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100523447	01/05/2011	19:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100523447	01/05/2011	19:51	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100523447	01/05/2011	19:35	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011	08:51	Timothy J Trees	1

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SL146 SDG#: DE052-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 14:25	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 10:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011 10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 13:31	Marie D John	20.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:34	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 05:06	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 17:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 13:00	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110050017A	01/06/2011 13:37	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110060008A	01/06/2011 16:11	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 22:06	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110050018A	01/14/2011 03:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110050017A	01/06/2011 00:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110050018A	01/06/2011 00:00	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110060008A	01/06/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:03	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-146-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL146 SDG#: DE052-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 12:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11017017202A	01/19/2011 12:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 12:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:00	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011 18:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011 09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	74	J	19	190		1
04688	Benzo(a)pyrene	50-32-8	40	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	51	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	31	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	66	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	170	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	22	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1

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Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenanthrene	85-01-8	53	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	180	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.46	J	0.39	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52		7.0	21		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.6	J	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1

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Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.097	U	0.097	0.39		1
01363	p,p-DDT	50-29-3	0.24	U	0.24	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.087	U	0.087	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	8.2		0.38	2.0		1
10225	PCB-1260	11096-82-5	1.8	J	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,100		5.60	22.3		1
07914	Boron	7440-42-8	0.992	U	0.992	5.57		1
01650	Calcium	7440-70-2	2,430		6.83	22.3		1
01654	Iron	7439-89-6	14,500		5.25	22.3		1
01656	Lithium	7439-93-2	13.5		0.25	2.2		1
01657	Magnesium	7439-95-4	3,180		2.83	11.1		1
06958	Manganese	7439-96-5	253		0.0869	0.557		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	335		0.624	11.1		1
01662	Potassium	7440-09-7	2,450		20.1	55.7		1
01667	Sodium	7440-23-5	105	J	41.6	111		1
07968	Strontium	7440-24-6	14.0		0.0691	0.557		1
06969	Tin	7440-31-5	2.52	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,020		0.423	1.11		1
10146	Zirconium	7440-67-7	1.26	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.13		0.0688	0.459		2
06126	Barium	7440-39-3	85.4		0.124	0.459		2
06127	Beryllium	7440-41-7	0.339		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.227		0.0413	0.115		2
06131	Chromium	7440-47-3	13.7		0.138	0.459		2
06132	Cobalt	7440-48-4	4.85		0.0229	0.115		2
06133	Copper	7440-50-8	9.26		0.0757	0.459		2
06135	Lead	7439-92-1	4.74		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.322		0.0574	0.115		2
06139	Nickel	7440-02-0	8.63		0.115	0.459		2
06141	Selenium	7782-49-2	0.115	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0290	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.197		0.0344	0.115		2
06148	Vanadium	7440-62-2	33.8		0.0252	0.115		2
06149	Zinc	7440-66-6	72.1		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0061	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	U	0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	461		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.44	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 15:00	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 08:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/10/2011 14:01	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110050020A	01/31/2011 20:17	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 13:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110050020A	01/06/2011 03:45	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE052-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 14:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 12:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:12	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	36	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	36	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.5		5
10138	Benzo(a)pyrene	50-32-8	12		3.8	9.5		5
10138	Benzo(g,h,i)perylene	191-24-2	8.6	J	3.8	9.5		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.5		5
10138	Chrysene	218-01-9	36		1.9	9.5		5
10138	Dibenz(a,h)anthracene	53-70-3	5.6	J	3.8	9.5		5
10138	Fluoranthene	206-44-0	3.8	U	3.8	9.5		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.5		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5		5
10138	Naphthalene	91-20-3	4.0	J	3.8	9.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5		5
10138	Phenanthrene	85-01-8	4.3	J	3.8	9.5		5
10138	Pyrene	129-00-0	6.2	J	3.8	9.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	27	U	27	82		20
10401	Dalapon	75-99-0	100	U	100	210		20
10401	2,4-DB	94-82-6	14	U	14	39		20
10401	Dicamba	1918-00-9	9.2	U	9.2	27		20
10401	Dinoseb	88-85-7	18	U	18	55		20
10401	2,4-DP (Dichlorprop)	120-36-5	18	U	18	39		20
10401	MCPA	94-74-6	1,700	U	1,700	5,700		20
10401	MCPP (Mecoprop)	93-65-2	1,700	U	1,700	5,700		20
10401	2,4,5-T	93-76-5	1.9	U	1.9	3.9		20
10401	2,4,5-TP	93-72-1	1.7	U	1.7	3.9		20
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.76	U	0.76	1.9		10
01363	Alpha BHC	319-84-6	0.39	U	0.39	1.9		10
01363	Beta BHC	319-85-7	0.69	U	0.69	1.9		10
01363	Gamma BHC - Lindane	58-89-9	0.39	U	0.39	1.9		10
01363	Chlordane	57-74-9	9.2	U	9.2	39		10
01363	p,p-DDD	72-54-8	0.76	U	0.76	3.9		10
01363	p,p-DDE	72-55-9	0.76	U	0.76	3.9		10
01363	p,p-DDT	50-29-3	0.76	U	0.76	3.9		10
01363	Delta BHC	319-86-8	0.41	U	0.41	1.9		10
01363	Dieldrin	60-57-1	0.76	U	0.76	3.9		10
01363	Endosulfan I	959-98-8	0.50	U	0.50	1.9		10
01363	Endosulfan II	33213-65-9	0.76	U	0.76	3.9		10
01363	Endosulfan Sulfate	1031-07-8	0.76	U	0.76	3.9		10
01363	Endrin	72-20-8	0.76	U	0.76	3.9		10
01363	Endrin Aldehyde	7421-93-4	0.76	U	0.76	3.9		10
01363	Endrin Ketone	53494-70-5	0.76	U	0.76	3.9		10
01363	Heptachlor	76-44-8	0.69	U	0.69	1.9		10
01363	Heptachlor Epoxide	1024-57-3	0.39	U	0.39	1.9		10
01363	Methoxychlor	72-43-5	3.9	U	3.9	19		10
01363	Mirex	2385-85-5	9.5		0.76	3.9		10
01363	Toxaphene	8001-35-2	25	U	25	76		10

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	5.9		1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.76	J	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,400		5.70	22.7		1
07914	Boron	7440-42-8	53.0		1.01	5.66		1
01650	Calcium	7440-70-2	2,940		6.94	22.7		1
01654	Iron	7439-89-6	23,800		5.34	22.7		1
01656	Lithium	7439-93-2	23.9		0.25	2.3		1
01657	Magnesium	7439-95-4	5,200		2.88	11.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	226		0.0884	0.566		1
10145	Phosphorus	7723-14-0	184		0.634	11.3		1
01662	Potassium	7440-09-7	2,150		20.4	56.6		1
01667	Sodium	7440-23-5	443		42.3	113		1
07968	Strontium	7440-24-6	25.9		0.0702	0.566		1
06969	Tin	7440-31-5	2.66	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,450		0.430	1.13		1
10146	Zirconium	7440-67-7	2.28	J	0.952	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.156	J	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.66		0.0686	0.458		2
06126	Barium	7440-39-3	143		0.124	0.458		2
06127	Beryllium	7440-41-7	0.758		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.129		0.0412	0.114		2
06131	Chromium	7440-47-3	25.0		0.137	0.458		2
06132	Cobalt	7440-48-4	7.17		0.0229	0.114		2
06133	Copper	7440-50-8	8.93		0.0755	0.458		2
06135	Lead	7439-92-1	7.78		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.620		0.0572	0.114		2
06139	Nickel	7440-02-0	13.9		0.114	0.458		2
06141	Selenium	7782-49-2	0.125	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0310	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.339		0.0343	0.114		2
06148	Vanadium	7440-62-2	56.1		0.0252	0.114		2
06149	Zinc	7440-66-6	71.7		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0041	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.0		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	436		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-039-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.76	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 15:35	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 10:53	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/12/2011 09:56	Michele D Hamilton	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	110050020A	01/31/2011 21:15	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 14:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110050020A	01/06/2011 03:45	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:16	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1

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Analysis Report

Sample Description: **SL-039-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE052-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 14:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 13:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:25	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	9.9		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.9		5
10138	Anthracene	120-12-7	2.0	U	2.0	9.9		5
10138	Benzo(a)anthracene	56-55-3	6.4	J	4.0	9.9		5
10138	Benzo(a)pyrene	50-32-8	9.4	J	4.0	9.9		5
10138	Benzo(b)fluoranthene	205-99-2	22		4.0	9.9		5
10138	Benzo(g,h,i)perylene	191-24-2	7.1	J	4.0	9.9		5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U	4.0	9.9		5
10138	Chrysene	218-01-9	25		2.0	9.9		5
10138	Dibenz(a,h)anthracene	53-70-3	4.6	J	4.0	9.9		5
10138	Fluoranthene	206-44-0	4.0	U	4.0	9.9		5
10138	Fluorene	86-73-7	4.0	U	4.0	9.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U	4.0	9.9		5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	9.9		5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	9.9		5
10138	Naphthalene	91-20-3	4.0	U	4.0	9.9		5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	9.9		5
10138	Phenanthrene	85-01-8	4.0	U	4.0	9.9		5
10138	Pyrene	129-00-0	4.1	J	4.0	9.9		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	29	U	29	86		20
10401	Dalapon	75-99-0	100	U	100	210		20
10401	2,4-DB	94-82-6	15	U	15	40		20
10401	Dicamba	1918-00-9	9.5	U	9.5	29		20
10401	Dinoseb	88-85-7	19	U	19	57		20
10401	2,4-DP (Dichlorprop)	120-36-5	19	U	19	40		20
10401	MCPA	94-74-6	1,800	U	1,800	6,000		20
10401	MCPP (Mecoprop)	93-65-2	1,800	U	1,800	6,000		20
10401	2,4,5-T	93-76-5	2.0	U	2.0	4.0		20
10401	2,4,5-TP	93-72-1	1.8	U	1.8	4.0		20
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.95	U	0.95	4.0		1
01363	p,p-DDD	72-54-8	0.079	U	0.079	0.40		1
01363	p,p-DDE	72-55-9	0.079	U	0.079	0.40		1
01363	p,p-DDT	50-29-3	0.20	U	0.20	0.40		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.40		1
01363	Endrin	72-20-8	0.079	U	0.079	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.079	U	0.079	0.40		1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.22	U	0.22	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.69	J	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.81	23.1		1
07914	Boron	7440-42-8	8.29		1.03	5.78		1
01650	Calcium	7440-70-2	2,280		7.09	23.1		1
01654	Iron	7439-89-6	21,400		5.44	23.1		1
01656	Lithium	7439-93-2	22.2		0.25	2.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,640		2.94	11.6		1
06958	Manganese	7439-96-5	228		0.0902	0.578		1
10145	Phosphorus	7723-14-0	170		0.647	11.6		1
01662	Potassium	7440-09-7	2,130		20.8	57.8		1
01667	Sodium	7440-23-5	275		43.1	116		1
07968	Strontium	7440-24-6	25.8		0.0717	0.578		1
06969	Tin	7440-31-5	2.68	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,350		0.439	1.16		1
10146	Zirconium	7440-67-7	2.21	J	0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.197	J	0.0707	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.24		0.0707	0.471		2
06126	Barium	7440-39-3	134		0.127	0.471		2
06127	Beryllium	7440-41-7	0.799		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.0901	J	0.0424	0.118		2
06131	Chromium	7440-47-3	24.8		0.141	0.471		2
06132	Cobalt	7440-48-4	5.33		0.0236	0.118		2
06133	Copper	7440-50-8	8.37		0.0778	0.471		2
06135	Lead	7439-92-1	6.97		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.531		0.0589	0.118		2
06139	Nickel	7440-02-0	13.0		0.118	0.471		2
06141	Selenium	7782-49-2	0.134	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0358	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.305		0.0354	0.118		2
06148	Vanadium	7440-62-2	53.4		0.0259	0.118		2
06149	Zinc	7440-66-6	51.4		0.660	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.4		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	455		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.13	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	16.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 16:10	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 11:25	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/12/2011 10:24	Michele D Hamilton	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	110050020A	01/31/2011 21:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 14:32	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110050020A	01/06/2011 03:45	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:20	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL036 SDG#: DE052-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 14:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 13:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:37	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	9.9		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.9		5
10138	Anthracene	120-12-7	2.0	U	2.0	9.9		5
10138	Benzo(a)anthracene	56-55-3	4.0	U	4.0	9.9		5
10138	Benzo(a)pyrene	50-32-8	4.0	U	4.0	9.9		5
10138	Benzo(b)fluoranthene	205-99-2	6.0	J	4.0	9.9		5
10138	Benzo(g,h,i)perylene	191-24-2	6.3	J	4.0	9.9		5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U	4.0	9.9		5
10138	Chrysene	218-01-9	4.7	J	2.0	9.9		5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	9.9		5
10138	Fluoranthene	206-44-0	4.0	U	4.0	9.9		5
10138	Fluorene	86-73-7	4.0	U	4.0	9.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U	4.0	9.9		5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	9.9		5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	9.9		5
10138	Naphthalene	91-20-3	4.0	U	4.0	9.9		5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	9.9		5
10138	Phenanthrene	85-01-8	4.0	U	4.0	9.9		5
10138	Pyrene	129-00-0	4.0	U	4.0	9.9		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.1	U	7.1	21		5
10401	Dalapon	75-99-0	26	U	26	53		5
10401	2,4-DB	94-82-6	3.7	U	3.7	10		5
10401	Dicamba	1918-00-9	2.4	U	2.4	7.1		5
10401	Dinoseb	88-85-7	4.8	U	4.8	14		5
10401	2,4-DP (Dichlorprop)	120-36-5	4.8	U	4.8	10		5
10401	MCPA	94-74-6	450	U	450	1,500		5
10401	MCPP (Mecoprop)	93-65-2	450	U	450	1,500		5
10401	2,4,5-T	93-76-5	0.49	U	0.49	1.0		5
10401	2,4,5-TP	93-72-1	0.45	U	0.45	1.0		5
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							

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Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	0.95	U	0.95	4.0		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.078	U	0.078	0.40		1
01363	p,p-DDT	50-29-3	0.078	U	0.078	0.40		1
01363	Delta BHC	319-86-8	0.20	U	0.20	0.20		1
01363	Dieldrin	60-57-1	0.10	J	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.12	J	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.078	U	0.078	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.29		0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: delta-BHC.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,900		5.97	23.8		1
07914	Boron	7440-42-8	1.06	U	1.06	5.94		1
01650	Calcium	7440-70-2	3,840		7.28	23.8		1

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Sample Description: **SL-097-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,000		5.59	23.8		1
01656	Lithium	7439-93-2	25.0		0.26	2.4		1
01657	Magnesium	7439-95-4	4,870		3.02	11.9		1
06958	Manganese	7439-96-5	640		0.0926	0.594		1
10145	Phosphorus	7723-14-0	194		0.665	11.9		1
01662	Potassium	7440-09-7	2,270		21.4	59.4		1
01667	Sodium	7440-23-5	265		44.3	119		1
07968	Strontium	7440-24-6	36.8		0.0736	0.594		1
06969	Tin	7440-31-5	3.00	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,410		0.451	1.19		1
10146	Zirconium	7440-67-7	2.40	J	0.998	5.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.270		0.0713	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.17		0.0713	0.475		2
06126	Barium	7440-39-3	164		0.128	0.475		2
06127	Beryllium	7440-41-7	0.971		0.0190	0.119		2
06128	Cadmium	7440-43-9	0.422		0.0428	0.119		2
06131	Chromium	7440-47-3	36.1		0.143	0.475		2
06132	Cobalt	7440-48-4	7.09		0.0238	0.119		2
06133	Copper	7440-50-8	14.4		0.0784	0.475		2
06135	Lead	7439-92-1	10.2		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.680		0.0594	0.119		2
06139	Nickel	7440-02-0	19.8		0.119	0.475		2
06141	Selenium	7782-49-2	0.149	J	0.0475	0.475		2
06142	Silver	7440-22-4	0.0606	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.396		0.0356	0.119		2
06148	Vanadium	7440-62-2	74.7		0.0261	0.119		2
06149	Zinc	7440-66-6	79.9		0.665	3.56		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	506		10.0	10.0		1

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Sample Description: **SL-097-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL097 SDG#: DE052-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.58	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	15.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 16:45	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 11:57	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/12/2011 14:05	Michele D Hamilton	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	110050020A	01/31/2011 21:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 14:51	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110050020A	01/06/2011 03:45	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1

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Sample Description: **SL-097-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
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SL097 SDG#: DE052-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 15:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 14:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL259 SDG#: DE052-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	13		7.7	9.2		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.6		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.04
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.04
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.04
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2		1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.04
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.04
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		1.04
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.04
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.04
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1.04
06192	Methylene Chloride	75-09-2	0.50	J	0.27	4.6		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.04

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Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL259 SDG#: DE052-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.04
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.04
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		1.04
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.11
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL259 SDG#: DE052-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

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Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL259 SDG#: DE052-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.43	21.6		1
07914	Boron	7440-42-8	0.961	U	0.961	5.40		1
01650	Calcium	7440-70-2	2,610		6.62	21.6		1
01654	Iron	7439-89-6	21,800		5.09	21.6		1
01656	Lithium	7439-93-2	28.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,970		2.74	10.8		1
06958	Manganese	7439-96-5	344		0.0842	0.540		1
10145	Phosphorus	7723-14-0	375		0.605	10.8		1
01662	Potassium	7440-09-7	2,690		19.4	54.0		1
01667	Sodium	7440-23-5	133		40.3	108		1
07968	Strontium	7440-24-6	15.8		0.0669	0.540		1
06969	Tin	7440-31-5	2.54	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,350		0.410	1.08		1
10146	Zirconium	7440-67-7	1.60	J	0.907	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.29		0.0654	0.436		2
06126	Barium	7440-39-3	91.3		0.118	0.436		2
06127	Beryllium	7440-41-7	0.690		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.102	J	0.0393	0.109		2
06131	Chromium	7440-47-3	20.6		0.131	0.436		2
06132	Cobalt	7440-48-4	6.85		0.0218	0.109		2
06133	Copper	7440-50-8	8.45		0.0720	0.436		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL259 SDG#: DE052-06

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	5.80		0.0113	0.218		2
06138	Molybdenum		7439-98-7	0.419		0.0545	0.109		2
06139	Nickel		7440-02-0	13.2		0.109	0.436		2
06141	Selenium		7782-49-2	0.151	J	0.0436	0.436		2
06142	Silver		7440-22-4	0.0131	U	0.0131	0.109		2
06145	Thallium		7440-28-0	0.336		0.0327	0.109		2
06148	Vanadium		7440-62-2	45.9		0.0240	0.109		2
06149	Zinc		7440-66-6	70.2		0.611	3.27		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.88	U	0.88	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.9	U	9.9	33.0		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	565		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.08		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-XXX-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL259 SDG#: DE052-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 18:36	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 19:23	Sara E Johnson	23.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100523447	01/05/2011 19:40	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 19:50	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 12:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 15:10	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:27	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:46	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-259-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL259 SDG#: DE052-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 15:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 14:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243201A	01/21/2011 01:56	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.85
06192	Methylene Chloride	75-09-2	0.66	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		21.97
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-056-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.8	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.50	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.2	J	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500		5.90	23.4		1
07914	Boron	7440-42-8	1.04	U	1.04	5.86		1
01650	Calcium	7440-70-2	3,490		7.19	23.4		1
01654	Iron	7439-89-6	29,800		5.52	23.4		1
01656	Lithium	7439-93-2	33.4		0.26	2.3		1
01657	Magnesium	7439-95-4	6,290		2.98	11.7		1
06958	Manganese	7439-96-5	534		0.0914	0.586		1
10145	Phosphorus	7723-14-0	444		0.657	11.7		1
01662	Potassium	7440-09-7	3,710		21.1	58.6		1
01667	Sodium	7440-23-5	115	J	43.7	117		1
07968	Strontium	7440-24-6	26.5		0.0727	0.586		1
06969	Tin	7440-31-5	3.01	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,620		0.445	1.17		1
10146	Zirconium	7440-67-7	2.55	J	0.985	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.247		0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.0		0.0703	0.469		2
06126	Barium	7440-39-3	184		0.127	0.469		2
06127	Beryllium	7440-41-7	1.08		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.221		0.0422	0.117		2
06131	Chromium	7440-47-3	54.0		0.141	0.469		2
06132	Cobalt	7440-48-4	11.0		0.0234	0.117		2
06133	Copper	7440-50-8	15.0		0.0774	0.469		2

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Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL564 SDG#: DE052-07

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	10.8	0.0122	0.234		2
06138	Molybdenum		7439-98-7	1.35	0.0586	0.117		2
06139	Nickel		7440-02-0	50.6	0.117	0.469		2
06141	Selenium		7782-49-2	0.210 J	0.0469	0.469		2
06142	Silver		7440-22-4	0.0907 J	0.0141	0.117		2
06145	Thallium		7440-28-0	0.466	0.0352	0.117		2
06148	Vanadium		7440-62-2	75.5	0.0258	0.117		2
06149	Zinc		7440-66-6	95.9	0.657	3.52		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0033 U	0.0033	0.115		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.8	0.94	1.2		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.6 U	10.6	35.2		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.76 J	0.23	1.2		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	553	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.42	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	14.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-056-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL564 SDG#: DE052-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 18:59	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 19:43	Sara E Johnson	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100523447	01/05/2011 19:45	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 12:41	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 13:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 15:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:47	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-056-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL564 SDG#: DE052-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 15:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 14:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243201A	01/21/2011 02:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL569 SDG#: DE052-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	140	J	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL569 SDG#: DE052-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.8	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	3.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.8	20		1
10138	Fluoranthene	206-44-0	2.2		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.76	1.9		1
10138	Pyrene	129-00-0	2.0		0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.91	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,700		5.54	22.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-056-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL569 SDG#: DE052-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	5.33	J	0.981	5.51		1
01650	Calcium	7440-70-2	4,450		6.76	22.0		1
01654	Iron	7439-89-6	27,500		5.19	22.0		1
01656	Lithium	7439-93-2	22.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,560		2.80	11.0		1
06958	Manganese	7439-96-5	505		0.0860	0.551		1
10145	Phosphorus	7723-14-0	239		0.617	11.0		1
01662	Potassium	7440-09-7	4,900		19.8	55.1		1
01667	Sodium	7440-23-5	183		41.1	110		1
07968	Strontium	7440-24-6	33.2		0.0683	0.551		1
06969	Tin	7440-31-5	2.72	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,560		0.419	1.10		1
10146	Zirconium	7440-67-7	3.80	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242		0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.27		0.0674	0.450		2
06126	Barium	7440-39-3	161		0.121	0.450		2
06127	Beryllium	7440-41-7	0.858		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.437		0.0405	0.112		2
06131	Chromium	7440-47-3	36.5		0.135	0.450		2
06132	Cobalt	7440-48-4	9.75		0.0225	0.112		2
06133	Copper	7440-50-8	16.2		0.0742	0.450		2
06135	Lead	7439-92-1	11.5		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.694		0.0562	0.112		2
06139	Nickel	7440-02-0	21.2		0.112	0.450		2
06141	Selenium	7782-49-2	0.274	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0365	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.461		0.0337	0.112		2
06148	Vanadium	7440-62-2	75.7		0.0247	0.112		2
06149	Zinc	7440-66-6	81.7		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-056-SA5C-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL569 SDG#: DE052-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	540	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.77	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	11.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011	20:25	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011	13:35	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011	16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011	15:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011	14:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011	10:57	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL569 SDG#: DE052-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 15:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 15:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 02:39	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-010411 Water
SSFL Area IV Collocated Soil Sampling
TB-010411

LLI Sample # WW 6177808
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 12:30

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB104 SDG#: DE052-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-010411 Water**
SSFL Area IV Collocated Soil Sampling
TB-010411

LLI Sample # WW 6177808
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 12:30

Submitted: 01/05/2011 09:00
Reported: 02/02/2011 16:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB104 SDG#: DE052-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110101AA	01/10/2011	14:21	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110101AA	01/10/2011	13:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110101AA	01/10/2011	13:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110101AA	01/10/2011	14:21	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11007A20A	01/07/2011	18:03	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11007A20A	01/07/2011	18:03	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110071AA	Sample number(s): 6177800,6177805-6177806									
Acetone	6.7	U	6.7	8.0	ug/kg	172		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	90		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	99		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	69		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	92		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	87		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	104		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	79		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	77		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	91		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	138*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	91		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	103		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	94		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	85		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	95		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	105		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	90		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	83		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	95		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	93		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69		61-134		
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	95		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	95		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	88		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106		77-120		
Toluene	0.15	J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	82		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	91		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	78		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	89		80-120		
Batch number: E110071AA	Sample number(s): 6177800,6177805-6177806									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	110	70-130	1	30
Batch number: E110101AA	Sample number(s): 6177808									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	104	60-132	2	30
Batch number: Y110101AA	Sample number(s): 6177808									
Acetone	6	U	6.	20	ug/l	106	99	49-234	7	30
Benzene	0.5	U	0.5	5	ug/l	102	97	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	104	101	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	104	99	80-120	4	30
Bromoform	1	U	1.	5	ug/l	99	94	61-120	5	30
Bromomethane	1	U	1.	5	ug/l	94	86	44-120	9	30
2-Butanone	3	U	3.	10	ug/l	106	102	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	104	98	78-120	6	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	96	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	106	98	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	97	80-120	5	30
Chloroethane	1	U	1.	5	ug/l	90	87	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	109	103	77-122	6	30
Chloromethane	1	U	1.	5	ug/l	100	96	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	105	99	80-120	5	30
4-Chlorotoluene	1	U	1.	5	ug/l	102	98	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	87	87	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	104	99	66-120	5	30
Dibromochloromethane	1	U	1.	5	ug/l	100	95	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	106	101	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	93	80-120	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	96	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	91	85	47-120	7	30
1,1-Dichloroethane	1	U	1.	5	ug/l	104	98	79-120	6	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	114	108	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	109	105	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	98	80-120	6	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	96	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	96	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	99	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	106	98	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	99	80-120	6	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	94	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	99	97	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	102	98	79-120	4	30
Freon 113	2	U	2.	10	ug/l	113	108	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	95	92	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	91	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	105	102	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	102	97	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	99	80-120	5	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	104	100	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	106	101	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	100	92	80-120	8	30
n-Propylbenzene	1	U	1.	5	ug/l	105	100	80-120	5	30
Styrene	1	U	1.	5	ug/l	101	97	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	98	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	102	98	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	101	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	101	95	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	99	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	94	88	75-127	6	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	97	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	106	99	80-120	7	30
Trichlorofluoromethane	2	U	2.	5	ug/l	102	95	64-129	7	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	106	105	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	104	99	74-120	5	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	98	75-120	6	30
Vinyl Chloride	1	U	1.	5	ug/l	88	83	65-125	6	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	95	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	99	96	80-120	4	30
Batch number: 11006SLA026	Sample number(s): 6177800-6177807									
Aniline	170 U		170.	500	ug/kg	54		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	84		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	81		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	81		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	83		67-125		
Benzoic acid	170 U		170.	500	ug/kg	88		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	87		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	96		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	93		79-112		
Carbazole	17	U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloroaniline	67	U	67.	170	ug/kg	43		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	84		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	90		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	44		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Fluoranthene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	102		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	108		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	84		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	62		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	98		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	97		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	84		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	75		35-106		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	96		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 11006SLC026	Sample number(s): 6177800-6177807									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		

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Quality Control Summary

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Reported: 02/02/11 at 04:32 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	110		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	95		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	116		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	135		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	122		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	122		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	123		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	101		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	136		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		56-121		
Batch number: 11011SLB026	Sample number(s): 6177800									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11007A20A	Sample number(s): 6177808									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	85	100	75-135	16	30
Batch number: 11010A34A	Sample number(s): 6177800									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76	80	67-119	5	30
Batch number: 110110003A	Sample number(s): 6177800									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	93	83	54-134	12	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	93	82	54-134	12	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	107		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100 U		100.	300	ug/kg	94		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	107		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800 U		800.	2,400	ug/kg	111		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110100020A	Sample number(s): 6177800									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 110060007A	Sample number(s): 6177801-6177804									
2,4-D	1.2	U	1.2	3.6	ug/kg	102		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	84		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	81		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		60-141		
MCPA	76	U	76.	250	ug/kg	99		34-113		
MCPP (Mecoprop)	100 J		75.	250	ug/kg	87		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	96		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	89		48-138		
Batch number: 110050019A	Sample number(s): 6177800-6177807									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	64*	55*	75-125	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110050020A	Sample number(s): 6177801-6177804									
Aldrin	0.066	U	0.066	0.17	ug/kg	127		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	82		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	96		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	128		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	94		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	100		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	97		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	79		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	137*		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	123		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	97		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	117		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	121		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	89		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110050017A	Sample number(s): 6177800									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		66-113		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	75		66-113		
Batch number: 110060008A	Sample number(s): 6177800									
Ethanol	100 U		100.	500	ug/kg	107		75-112		
Isopropanol	100 U		100.	500	ug/kg	96		75-125		
Methanol	100 U		100.	500	ug/kg	103		75-134		
Batch number: 110180028A	Sample number(s): 6177800									
Diethylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Batch number: 110050018A	Sample number(s): 6177800									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	106		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
Batch number: 110061026001A	Sample number(s): 6177800-6177807									
Antimony	0.0600	U	0.0600	0.200	mg/kg	120		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	109		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		82-118		
Cadmium	0.0360	U	0.0360	0.100	mg/kg	108		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	118		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	112		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	117		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	112		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	106		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	104		78-122		
Batch number: 110061026001B	Sample number(s): 6177800-6177807									
Selenium	0.0400	U	0.0400	0.400	mg/kg	114		79-122		
Batch number: 110061026001C	Sample number(s): 6177800-6177807									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 110061026001D	Sample number(s): 6177800-6177807									
Barium	0.108	U	0.108	0.400	mg/kg	106		79-121		
Batch number: 110065708002	Sample number(s): 6177800-6177807									
Aluminum	5.03	U	5.03	20.0	mg/kg	107		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	106		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	104		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		81-119		
Phosphorus	1.78	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	103		78-110		
Sodium	37.3	U	37.3	100	mg/kg	103		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	110		79-121		
Tin	1.51	J	1.00	10.0	mg/kg	105		90-114		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.380	U	0.380	1.00	mg/kg	114		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110065711001	Sample number(s): 6177800-6177807									
Mercury	0.0029	U	0.0029	0.0996	mg/kg	97		88-123		
Batch number: 11014102201A	Sample number(s): 6177800									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11017017201A	Sample number(s): 6177800-6177807									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11017017202A	Sample number(s): 6177800-6177807									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	93		90-110		
Batch number: 11018243201A	Sample number(s): 6177800-6177807									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	87		80-120		
Batch number: 11006039401A	Sample number(s): 6177800-6177807									
22a pH by 9045C						100		95-105		
Batch number: 11006182101A	Sample number(s): 6177800-6177807									
Oxidation Reduction Potential						100		98-102		
Batch number: 11012162401A	Sample number(s): 6177801-6177807									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11019162401A	Sample number(s): 6177800									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110071AA	Sample number(s): 6177800,6177805-6177806 UNSPK: P179369								
Acetone	123	107	15-210	14	30				
Benzene	92	90	55-143	3	30				
Bromobenzene	74	72	43-139	3	30				
Bromochloromethane	93	90	60-137	3	30				
Bromodichloromethane	88	85	53-136	3	30				
Bromoform	89	83	38-124	7	30				
Bromomethane	69	65	42-168	5	30				
2-Butanone	94	89	37-163	6	30				
n-Butylbenzene	55	50	30-146	9	30				
sec-Butylbenzene	57	53	33-157	7	30				
tert-Butylbenzene	60	56	41-152	6	30				
Carbon Tetrachloride	95	91	45-153	5	30				
Chlorobenzene	80	76	49-135	6	30				
Chloroethane	72	70	39-152	3	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	1	30				

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Reported: 02/02/11 at 04:32 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chloroform	95	92	61-142	4	30				
Chloromethane	77	75	51-163	3	30				
2-Chlorotoluene	68	63	42-146	7	30				
4-Chlorotoluene	67	63	39-145	6	30				
Chlorotrifluoroethene	135*	137*	70-130	13	30				
1,2-Dibromo-3-chloropropane	75	71	30-139	6	30				
Dibromochloromethane	90	85	51-128	5	30				
1,2-Dibromoethane	87	84	54-129	5	30				
Dibromomethane	92	88	57-130	4	30				
1,2-Dichlorobenzene	76	72	36-133	6	30				
1,3-Dichlorobenzene	69	65	34-134	6	30				
1,4-Dichlorobenzene	71	67	35-136	6	30				
Dichlorodifluoromethane	72	68	26-151	7	30				
1,1-Dichloroethane	96	93	63-142	3	30				
1,2-Dichloroethane	93	89	68-131	4	30				
1,1-Dichloroethene	101	95	61-149	6	30				
cis-1,2-Dichloroethene	95	91	60-136	5	30				
trans-1,2-Dichloroethene	96	94	59-142	3	30				
1,2-Dichloropropane	90	88	62-135	3	30				
1,3-Dichloropropane	87	83	58-129	4	30				
2,2-Dichloropropane	95	92	53-147	4	30				
1,1-Dichloropropene	87	84	54-145	3	30				
cis-1,3-Dichloropropene	76	76	51-131	0	30				
trans-1,3-Dichloropropene	77	76	49-129	1	30				
Ethylbenzene	71	67	44-141	7	30				
Freon 113	105	98	56-156	6	30				
Freon 133a	87	90	70-130	11	30				
Hexachlorobutadiene	50	45	10-155	11	30				
2-Hexanone	60	58	32-160	4	30				
Isopropylbenzene	64	59	38-144	8	30				
p-Isopropyltoluene	58	53	29-152	9	30				
Methyl Tertiary Butyl Ether	89	86	55-129	3	30				
4-Methyl-2-pentanone	61	61	46-139	1	30				
Methylene Chloride	90	86	61-141	4	30				
n-Propylbenzene	64	60	39-157	6	30				
Styrene	76	71	35-134	7	30				
1,1,1,2-Tetrachloroethane	88	82	52-130	7	30				
1,1,2,2-Tetrachloroethane	81	78	40-152	4	30				
Tetrachloroethene	79	75	42-149	5	30				
Toluene	83	80	50-146	4	30				
1,2,3-Trichlorobenzene	70	63	10-140	10	30				
1,2,4-Trichlorobenzene	59	55	10-136	8	30				
1,1,1-Trichloroethane	95	94	64-142	1	30				
1,1,2-Trichloroethane	91	87	54-139	4	30				
Trichloroethene	85	82	53-144	3	30				
Trichlorofluoromethane	86	81	47-163	6	30				
1,2,3-Trichloropropane	83	81	45-154	3	30				
1,2,4-Trimethylbenzene	66	60	37-149	8	30				
1,3,5-Trimethylbenzene	64	59	38-150	8	30				
Vinyl Chloride	78	75	50-154	4	30				
m+p-Xylene	74	68	44-137	8	30				
o-Xylene	69	64	42-137	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E110071AA	Sample number(s): 6177800,6177805-6177806 UNSPK: P179369								
1,4-Dioxane	126	112	70-130	20	30				
Batch number: 11006SLA026	Sample number(s): 6177800-6177807 UNSPK: 6177806								
Aniline	55	47	14-114	15	30				
Benzidine	35	27*	35-141	27	30				
Benzo(a)anthracene	89	91	65-122	2	30				
Benzo(a)pyrene	79	80	57-126	1	30				
Benzo(b)fluoranthene	80	84	59-125	4	30				
Benzo(g,h,i)perylene	81	81	59-127	1	30				
Benzo(k)fluoranthene	79	81	56-132	2	30				
Benzoic acid	73	74	10-173	1	30				
Benzyl alcohol	80	83	55-123	4	30				
4-Bromophenyl-phenylether	88	92	67-129	4	30				
Butylbenzylphthalate	94	95	73-134	1	30				
Di-n-butylphthalate	88	91	67-123	4	30				
Carbazole	86	90	64-120	5	30				
4-Chloro-3-methylphenol	86	89	53-130	4	30				
4-Chloroaniline	53	44	23-95	18	30				
bis(2-Chloroethoxy)methane	90	93	54-117	3	30				
bis(2-Chloroethyl)ether	80	82	60-116	3	30				
bis(2-Chloroisopropyl)ether	81	81	55-142	1	30				
2-Chloronaphthalene	78	81	50-141	4	30				
2-Chlorophenol	86	91	73-121	5	30				
4-Chlorophenyl-phenylether	91	94	64-119	3	30				
Chrysene	87	90	62-128	4	30				
Dibenzofuran	89	93	71-112	4	30				
1,2-Dichlorobenzene	82	84	66-108	2	30				
1,3-Dichlorobenzene	78	81	63-109	4	30				
1,4-Dichlorobenzene	79	82	53-113	4	30				
3,3'-Dichlorobenzidine	60	54	25-123	9	30				
2,4-Dichlorophenol	90	92	78-117	3	30				
Diethylphthalate	89	92	66-118	3	30				
2,4-Dimethylphenol	89	94	56-130	5	30				
3,5-Dimethylphenol	98	102	70-130	4	30				
Dimethylphthalate	90	92	64-118	3	30				
4,6-Dinitro-2-methylphenol	71	71	10-148	0	30				
2,4-Dinitrophenol	59	58	20-143	2	30				
2,4-Dinitrotoluene	90	97	57-114	7	30				
2,6-Dinitrotoluene	93	94	69-123	2	30				
1,2-Diphenylhydrazine	96	100	71-129	3	30				
bis(2-Ethylhexyl)phthalate	91	94	63-122	3	30				
Fluoranthene	88	93	59-122	6	30				
Hexachlorobenzene	92	95	61-111	4	30				
Hexachlorobutadiene	91	95	62-120	3	30				
Hexachlorocyclopentadiene	82	85	10-153	3	30				
Hexachloroethane	83	85	57-109	2	30				
Indeno(1,2,3-cd)pyrene	79	83	61-126	5	30				
Isophorone	86	89	51-118	3	30				
2-Methylphenol	87	90	47-142	3	30				
4-Methylphenol	82	86	55-126	4	30				
2-Nitroaniline	95	100	67-125	5	30				
3-Nitroaniline	88	90	59-122	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitroaniline	66	64	52-112	4	30				
Nitrobenzene	91	94	51-114	3	30				
2-Nitrophenol	90	90	74-115	1	30				
4-Nitrophenol	88	93	39-133	6	30				
N-Nitroso-di-n-propylamine	79	85	60-116	7	30				
N-Nitrosodiphenylamine	89	93	86-145	5	30				
Di-n-octylphthalate	83	84	56-126	1	30				
Pentachlorophenol	63	69	17-149	9	30				
Phenanthrene	88	93	65-125	5	30				
Phenol	84	92	58-126	8	30				
Pyrene	94	95	51-151	1	30				
1,2,4-Trichlorobenzene	89	91	72-115	2	30				
2,4,5-Trichlorophenol	93	97	34-139	4	30				
2,4,6-Trichlorophenol	95	101	49-140	6	30				
Batch number: 11006SLC026	Sample number(s): 6177800-6177807 UNSPK: 6177801								
Acenaphthene	107*	96	63-105	11	30				
Acenaphthylene	108	96	55-126	11	30				
Anthracene	91	101	46-136	10	30				
Benzo(a)anthracene	89	90	39-144	0	30				
Benzo(a)pyrene	104	105	34-156	1	30				
Benzo(b)fluoranthene	133	124	43-155	5	30				
Benzo(g,h,i)perylene	54	60	33-141	9	30				
Benzo(k)fluoranthene	120	118	42-144	1	30				
Butylbenzylphthalate	127	110	73-140	14	30				
Di-n-butylphthalate	127	129	78-160	1	30				
Chrysene	86	87	29-156	1	30				
Dibenz(a,h)anthracene	90	86	41-130	4	30				
Diethylphthalate	116	113	87-131	3	30				
Dimethylphthalate	119*	106	74-118	11	30				
Bis(2-Ethylhexyl)phthalate	4*	11*	39-167	5	30				
Fluoranthene	89	99	26-166	9	30				
Fluorene	102	96	45-121	6	30				
Indeno(1,2,3-cd)pyrene	82	78	21-143	5	30				
1-Methylnaphthalene	93	96	72-123	4	30				
2-Methylnaphthalene	88	92	28-121	4	30				
Naphthalene	96	87	61-102	10	30				
N-Nitrosodimethylamine	107	107	48-113	0	30				
Di-n-octylphthalate	149	155	40-192	4	30				
Phenanthrene	97	98	12-165	1	30				
Pyrene	77	82	15-153	4	30				
Batch number: 11011SLB026	Sample number(s): 6177800 UNSPK: P179368								
N-Nitrosodimethylamine	86	90	70-130	4	30				
Batch number: 110110003A	Sample number(s): 6177800 UNSPK: P178518								
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	107	104	80-137	3	50				
1,3-Dinitrobenzene	107	104	38-166	3	50				
2,4-Dinitrotoluene	103	101	80-131	2	50				
2,6-Dinitrotoluene	107	105	80-127	2	50				
HMX	94	95	63-128	0	50				
Nitrobenzene	104	101	80-125	3	50				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitroglycerin	94	92	80-120	2	50				
2-Nitrotoluene	106	102	80-122	3	50				
3-Nitrotoluene	106	102	72-119	3	50				
4-Nitrotoluene	104	101	80-125	3	50				
PETN	111	109	80-121	1	50				
RDX	105	104	75-129	1	50				
Tetryl	112	109	55-174	2	50				
1,3,5-Trinitrobenzene	113	110	82-126	2	50				
2,4,6-Trinitrotoluene	106	103	82-130	3	50				
Batch number: 110100020A	Sample number(s): 6177800 UNSPK: 6177800								
17a Formaldehyde by 8315A	98	102	80-120	4	50				
Batch number: 110060007A	Sample number(s): 6177801-6177804 UNSPK: 6177801								
2,4-D	102	111	28-161	8	35				
Dalapon	32	81	12-86	87*	50				
2,4-DB	72	73	20-170	1	50				
Dicamba	70	71	33-120	2	50				
Dinoseb	17	15	1-44	12	35				
2,4-DP (Dichlorprop)	99	101	55-141	2	50				
MCPA	92	103	31-184	12	50				
MCPP (Mecoprop)	79	78	16-174	1	50				
2,4,5-T	88	86	25-132	3	35				
2,4,5-TP	78	80	10-183	2	35				
Batch number: 110050019A	Sample number(s): 6177800-6177807 UNSPK: 6177800								
PCB-1016	89	93	29-146	4	50				
PCB-1260	107	112	39-149	4	50				
Batch number: 110050020A	Sample number(s): 6177801-6177804 UNSPK: 6177801								
Aldrin	94	76	16-126	21	50				
Alpha BHC	67	42	10-129	44	50				
Beta BHC	78	69	14-147	13	50				
Gamma BHC - Lindane	64	61	10-140	5	50				
p,p-DDD	58	49	16-163	17	50				
p,p-DDE	94	77	18-161	20	50				
p,p-DDT	86	74	10-176	15	50				
Delta BHC	63	66	23-140	5	50				
Dieldrin	73	56	19-154	26	50				
Endosulfan I	58	45	16-137	24	50				
Endosulfan II	86	69	28-154	22	50				
Endosulfan Sulfate	92	86	21-160	7	50				
Endrin	70	58	11-149	19	50				
Endrin Aldehyde	73	59	10-148	21	35				
Endrin Ketone	64	73	22-165	13	50				
Heptachlor	0*	94	13-126	200*	50				
Heptachlor Epoxide	112	55	13-157	69*	50				
Methoxychlor	61	59	32-147	4	50				
Batch number: 110050017A	Sample number(s): 6177800 UNSPK: 6177800								
EFH (C12-C14)	82	87	49-123	6	20				
EFH (C15-C20)	106	107	49-123	2	20				
EFH (C21-C30)	118	118	49-123	0	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C30 - C40)	106	120	49-123	12	20				
EFH (C8-C11)	57	62	49-123	8	20				
Batch number: 110060008A	Sample number(s): 6177800 UNSPK: 6177800								
Ethanol	119	118	24-143	1	20				
Isopropanol	105	106	75-125	0	20				
Methanol	116	114	45-136	2	20				
Batch number: 110180028A	Sample number(s): 6177800 UNSPK: P178519								
Diethylene glycol	102	96	59-109	7	20				
Ethylene glycol	100	93	63-107	8	20				
Propylene glycol	99	90	63-107	9	20				
Batch number: 110050018A	Sample number(s): 6177800 UNSPK: 6177800								
m-Terphenyl	99	104	75-125	5	20				
o-Terphenyl	102	108	75-125	5	20				
p-Terphenyl	98	103	75-125	5	20				
Batch number: 110061026001A	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512								
Antimony	41*	44*	75-125	6	20	0.244	0.0986 J	85* (1)	20
Arsenic	24*	169*	75-125	42*	20	5.00	4.13	19	20
Beryllium	82	89	75-125	6	20	0.629	0.480	27* (1)	20
Cadmium	105	103	75-125	1	20	0.132	0.0833 J	45* (1)	20
Chromium	98	108	75-125	5	20	16.4	15.0	9	20
Cobalt	88	98	75-125	12	20	5.12	5.32	4	20
Copper	87	92	75-125	4	20	7.43	7.35	1	20
Lead	68*	84	75-125	6	20	5.85	4.32	30*	20
Nickel	95	114	75-125	11	20	9.31	8.69	7	20
Silver	111	110	75-125	1	20	0.0301 J	0.0300 J	1 (1)	20
Thallium	115	105	75-125	4	20	0.239	0.216	10 (1)	20
Vanadium	76 (2)	52 (2)	75-125	4	20	42.5	34.2	22*	20
Zinc	94 (2)	101 (2)	75-125	2	20	40.9	38.5	6	20
Batch number: 110061026001B	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512								
Selenium	92	102	75-125	12	20	0.152 J	0.112 J	30* (1)	20
Batch number: 110061026001C	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512								
Molybdenum	104	99	75-125	1	20	0.657	0.409	46* (1)	20
Batch number: 110061026001D	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512								
Barium	94 (2)	54 (2)	75-125	3	20	102	92.2	10	20
Batch number: 110065708002	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512								
Aluminum	225 (2)	1269 (2)	75-125	12	20	15,300	15,500	1	20
Boron	99	99	84-115	1	20	0.873 U	0.873 U	0 (1)	20
Calcium	221 (2)	181 (2)	75-125	6	20	1,970	2,190	11	20
Iron	473 (2)	989 (2)	75-125	3	20	16,300	16,900	4	20
Lithium	101	102	82-114	0	20	15.9	16.9	6	20
Magnesium	284 (2)	199 (2)	75-125	4	20	3,460	3,720	7	20
Manganese	187 (2)	889 (2)	75-125	65*	20	260	276	6	20
Phosphorus	160*	104	75-125	15	20	238	252	6	20
Potassium	150*	150*	75-125	0	20	2,220	2,450	10	20

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Quality Control Summary

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Sodium	105	101	75-125	4	20	109	117	6 (1)	20
Strontium	99	101	75-115	0	20	18.1	18.2	0	20
Tin	93	93	80-110	1	20	2.09 J	2.13 J	2 (1)	20
Titanium	226 (2)	225 (2)	75-125	0	20	1,180	1,200	2	20
Zirconium	98	98	75-125	1	20	1.95 J	2.44 J	23* (1)	20
Batch number: 110065711001	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512								
Mercury	99	99	65-135	0	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11014102201A	Sample number(s): 6177800 UNSPK: 6177800 BKG: 6177800								
21a Cyanide by 9012B	96		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11017017201A	Sample number(s): 6177800-6177807 UNSPK: P173166 BKG: P173166								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11017017202A	Sample number(s): 6177800-6177807 UNSPK: 6177800 BKG: 6177800								
11a Anions by 300.0 - Fluoride	74*		80-120			2.6	3.6	30* (1)	20
11a Anions by 300.0 - Nitrate	85		80-120			4.0	5.2	26* (1)	20
Batch number: 11018243201A	Sample number(s): 6177800-6177807 UNSPK: P178522 BKG: P178522								
3a Cr VI by EPA 7199	96		75-125			0.36 J	0.52 J	36* (1)	20
Batch number: 11006039401A	Sample number(s): 6177800-6177807 BKG: 6177807								
22a pH by 9045C						7.77	7.75	0	1
Batch number: 11006182101A	Sample number(s): 6177800-6177807 BKG: 6177807								
Oxidation Reduction Potential						540	540	0	6
Batch number: 11012162401A	Sample number(s): 6177801-6177807 BKG: 6177805								
28a Moisture Content by 160.3						9.2	9.5	3	20
Batch number: 11019162401A	Sample number(s): 6177800 BKG: P183549								
28a Moisture Content by 160.3						13.8	13.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6177800	111	103	96	85
6177805	111	109	95	88
6177806	111	109	94	87
Blank	108	105	95	89
LCS	102	104	101	101
MS	105	105	102	101
MSD	103	103	101	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Surrogate Quality Control

Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110071AA

	Toluene-d8
6177800	98
6177805	98
6177806	98
Blank	102
LCS	102
LCSD	101
MS	99
MSD	98

Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110101AA

	Toluene-d8
6177808	101
Blank	101
LCS	100
LCSD	100

Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6177808	103	101	99	99
Blank	104	101	99	100
LCS	103	105	100	101
LCSD	104	104	100	101

Limits:	86-118	80-120	88-110	86-115		

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11006SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6177800	84	85	93	78	86	92
6177801	86	87	91	80	91	80
6177802	76	77	80	72	83	83
6177803	83	80	85	75	85	91
6177804	80	78	89	78	87	89
6177805	89	88	106	79	86	82
6177806	82	83	93	78	87	82
6177807	89	87	102	78	84	80
Blank	85	86	105	80	93	90
LCS	90	90	108	90	95	89
MS	84	84	99	84	88	85
MSD	88	88	103	86	90	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Surrogate Quality Control

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11006SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6177800	83	82	88
6177801	88	85	85
6177802	93	102	93
6177803	87	86	84
6177804	93	90	79
6177805	102	93	95
6177806	87	93	98
6177807	101	92	87
Blank	78	80	87
LCS	97	106	95
MS	100	98	90
MSD	99	90	84
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11011SLB026

	N-Nitrosodimethylamine-d6
6177800	128
Blank	131
LCS	112
MS	139
MSD	102
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11007A20A

	Trifluorotoluene-F
6177808	95
Blank	96
LCS	119
LCSD	122
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11010A34A

	Trifluorotoluene-F
6177800	78
Blank	86
LCS	91
LCSD	96
Limits:	61-122

Analysis Name: 8a PCBs/PCTs by 8082

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Surrogate Quality Control

Batch number: 110050019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6177800	90	96
6177801	103	79
6177802	84	87
6177803	92	69
6177804	88	75
6177805	104	90
6177806	102	86
6177807	91	88
Blank	112	97
LCS	87	93
LCSD	106	91
MS	96	96
MSD	93	96
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 110050020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6177801	63	73
6177802	115	413*
6177803	50	74
6177804	56	89
Blank	99	102
LCS	103	108
MS	80	89
MSD	61	75
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110060007A

	2,4-Dichlorophenylacetic acid
6177801	88
6177802	106
6177803	128
6177804	108
Blank	83
LCS	97
MS	85
MSD	87
Limits:	36-156

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110100020A

	Butyraldehyde
6177800	96
Blank	99
LCS	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Surrogate Quality Control

MS 102
MSD 103

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110110003A

	2-Nitro-m-xylene
6177800	114
Blank	119
LCS	121
LCSD	120
MS	118
MSD	114
Limits:	80-146

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110050017A

	Chlorobenzene	Orthoterphenyl
6177800	83	91
Blank	75	92
LCS	85	100
MS	86	99
MSD	85	98
Limits:	37-125	47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110050018A

	n-Triacontane-d62
6177800	118
Blank	404*
LCS	110
MS	90
MSD	94
Limits:	50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110060008A

	Acetone
6177800	92
Blank	106
LCS	102
MS	112
MSD	114
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110180028A

	Tetramethylene glycol

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227827
Reported: 02/02/11 at 04:32 PM

Surrogate Quality Control

6177800	89
Blank	98
LCS	104
MS	110
MSD	99
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Amended COC

CHAIN OF CUSTODY RECORD

CDM

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: *(Signature)*

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	**TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-146-SA5B-SB-4.5	01.04.11	1153	soil	none	5 Encore Samples	X	X		X																				
SL-146-SA5B-SB-4.0-5.0	01.04.11	1158	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	TPH-EFH was removed from all but SL-146-SA5B-SB-4.0-5.0; per PB, NLM 11/10/11
SL-140-SA5C-SS-0.0-0.5	01.04.11	0918	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-039-SA5C-SS-0.0-0.5	01.04.11	0948	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-036-SA5C-SS-0.0-0.5	01.04.11	1015	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-097-SA5C-SS-0.0-0.5	01.04.11	1112	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X									
SL-259-SA5B-SB-4.0-5.0	01.04.11	1502	soil	none	2 16 oz. Jars			X		X	X	X	X	X	X	X													
SL-259-SA5B-SB-4.5	01.04.11	1458	soil	none	4 Encore Samples	X	X																						
SL-056-SA5C-SB-4.0-5.0	01.04.11	1416	soil	none	2 16 oz. jars			X		X	X	X	X	X	X	X													
SL-056-SA5C-SB-9.0-10.0	01.04.11	1605	soil	none	2 16 oz. jars			X		X	X	X	X	X	X	X													
SL-056-SA5C-SB-4.5	01.04.11	1412	soil	none	4 Encore Samples	X	X																						
TB-010411	01.04.11	1230	water	HCL	4-40 ml Clear Voa Vials	X	X		X																				

Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Laboratory:
	01.04.11 1630			Lancaster Laboratories, Inc.
Received by: *(Signature)*	Date/Time	Airbill No.		No. of coolers = 1
		8695 1431 9906		

13013 1227827 6177800-08

CHAIN OF CUSTODY RECORD

CDM

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	**TPH-EPH EPA 8015B Mod.	*Metals EPA 6010/6020DB.7471A	*Hex Chrome EPA 7199@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-146-SA5B-SB-4.5	01.04.11	1153	soil	none	5 Encore Samples	X	X		X																				
SL-146-SA5B-SB-4.0-5.0	01.04.11	1158	soil	none	4 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-140-SA5C-SS-0.0-0.5	01.04.11	0918	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-039-SA5C-SS-0.0-0.5	01.04.11	0948	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-036-SA5C-SS-0.0-0.5	01.04.11	1015	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-097-SA5C-SS-0.0-0.5	01.04.11	1112	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-259-SA5B-SB-4.0-5.0	01.04.11	1502	soil	none	2 16 oz. jars			X		X	X	X	X	X	X	X													
SL-259-SA5B-SB-4.5	01.04.11	1458	soil	none	4 Encore Samples	X	X		X																				
SL-056-SA5C-SB-4.0-5.0	01.04.11	1416	soil	none	2 16 oz. jars	X		X	X	X	X	X	X	X															
SL-056-SA5C-SB-9.0-10.0	01.04.11	1605	soil	none	2 16 oz. jars	X		X	X	X	X	X	X	X															
SL-056-SA5C-SB-9.0-10.0	01.04.11	1412	soil	none	4 Encore Samples	X	X		X																				
TB-010411	01.04.11	1230	water	HCL	4-40 ml Clear Voa Vials	X	X		X																				

Relinquished by: (Signature) — Date/Time: 01.04.11 1630
Received by: (Signature) — Date/Time:
Received for Laboratory by: (Signature) — Date/Time: 1-5-11 0900
Airbill No.: 8695 1431 9906

Laboratory: Lancaster Laboratories, Inc.
No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/05/2011
Group Number: 1227828
SDG: DX035
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-146-SA5B-SB-4.0-5.0 Soil	6177809
SL-140-SA5C-SS-0.0-0.5 Soil	6177810
SL-039-SA5C-SS-0.0-0.5 Soil	6177811
SL-036-SA5C-SS-0.0-0.5 Soil	6177812
SL-097-SA5C-SS-0.0-0.5 Soil	6177813
SL-259-SA5B-SB-4.0-5.0 Soil	6177814

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-146-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177809
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL146 SDG#: DX035-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177809
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL146 SDG#: DX035-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	U	0.0366	1.15	1
11031	12378-PeCDD	40321-76-4	0.0663	JBQ	0.0320	5.77	1
11031	123478-HxCDD	39227-28-6	0.0345	JQ	0.0292	5.77	1
11031	123678-HxCDD	57653-85-7	0.142	JQ	0.0286	5.77	1
11031	123789-HxCDD	19408-74-3	0.281	J	0.0278	5.77	1
11031	1234678-HpCDD	35822-46-9	0.334	JBQ	0.0357	5.77	1
11031	OCDD	3268-87-9	2.72	JB	0.0286	11.5	1
11031	2378-TCDF	51207-31-9	0.0410	U	0.0410	1.15	1
11031	12378-PeCDF	57117-41-6	0.0642	JBQ	0.0192	5.77	1
11031	23478-PeCDF	57117-31-4	0.0890	JBQ	0.0176	5.77	1
11031	123478-HxCDF	70648-26-9	0.0580	JBQ	0.0194	5.77	1
11031	123678-HxCDF	57117-44-9	0.0496	JBQ	0.0170	5.77	1
11031	123789-HxCDF	72918-21-9	0.162	JBQ	0.0193	5.77	1
11031	234678-HxCDF	60851-34-5	0.0468	JBQ	0.0176	5.77	1
11031	1234678-HpCDF	67562-39-4	0.140	JB	0.0135	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0490	JBQ	0.0196	5.77	1
11031	OCDF	39001-02-0	0.243	JBQ	0.0394	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177809
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL146 SDG#: DX035-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-146-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177809
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL146 SDG#: DX035-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11020001	01/29/2011 19:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11020001	01/20/2011 10:45	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177810
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL140 SDG#: DX035-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177810
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL140 SDG#: DX035-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0717	JQ	0.0445	1.16	1
11031	12378-PeCDD	40321-76-4	0.236	JBQ	0.0589	5.79	1
11031	123478-HxCDD	39227-28-6	0.513	JQ	0.0678	5.79	1
11031	123678-HxCDD	57653-85-7	1.74	J	0.0692	5.79	1
11031	123789-HxCDD	19408-74-3	0.809	J	0.0686	5.79	1
11031	1234678-HpCDD	35822-46-9	46.0	B	0.0962	5.79	1
11031	OCDD	3268-87-9	526	B	0.0829	11.6	1
11031	2378-TCDF	51207-31-9	0.0707	U	0.0707	1.16	1
11031	12378-PeCDF	57117-41-6	0.329	JB	0.0330	5.79	1
11031	23478-PeCDF	57117-31-4	0.349	JB	0.0312	5.79	1
11031	123478-HxCDF	70648-26-9	0.337	JB	0.0426	5.79	1
11031	123678-HxCDF	57117-44-9	0.297	JB	0.0382	5.79	1
11031	123789-HxCDF	72918-21-9	0.177	JB	0.0402	5.79	1
11031	234678-HxCDF	60851-34-5	0.382	JB	0.0392	5.79	1
11031	1234678-HpCDF	67562-39-4	4.92	JB	0.0374	5.79	1
11031	1234789-HpCDF	55673-89-7	0.476	JBQ	0.0419	5.79	1
11031	OCDF	39001-02-0	14.4	B	0.0440	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	89	26 - 138
13C12-OCDF	89	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177810
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL140 SDG#: DX035-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177810
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL140 SDG#: DX035-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11020001	01/29/2011 20:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11020001	01/20/2011 10:45	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177811
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL039 SDG#: DX035-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177811
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL039 SDG#: DX035-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0427	U	0.0427	1.14	1
11031	12378-PeCDD	40321-76-4	0.112	JBQ	0.0414	5.72	1
11031	123478-HxCDD	39227-28-6	0.0795	JQ	0.0572	5.72	1
11031	123678-HxCDD	57653-85-7	0.770	JQ	0.0598	5.72	1
11031	123789-HxCDD	19408-74-3	0.355	J	0.0570	5.72	1
11031	1234678-HpCDD	35822-46-9	17.8	B	0.0743	5.72	1
11031	OCDD	3268-87-9	123	B	0.100	11.4	1
11031	2378-TCDF	51207-31-9	0.0475	U	0.0475	1.14	1
11031	12378-PeCDF	57117-41-6	0.346	JBQ	0.0265	5.72	1
11031	23478-PeCDF	57117-31-4	0.191	JBQ	0.0249	5.72	1
11031	123478-HxCDF	70648-26-9	0.178	JBQ	0.0373	5.72	1
11031	123678-HxCDF	57117-44-9	0.127	JB	0.0370	5.72	1
11031	123789-HxCDF	72918-21-9	0.175	JB	0.0412	5.72	1
11031	234678-HxCDF	60851-34-5	0.178	JBQ	0.0381	5.72	1
11031	1234678-HpCDF	67562-39-4	2.64	JB	0.0470	5.72	1
11031	1234789-HpCDF	55673-89-7	0.183	JB	0.0505	5.72	1
11031	OCDF	39001-02-0	2.72	JB	0.0708	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177811
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL039 SDG#: DX035-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177811
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL039 SDG#: DX035-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11020001	01/29/2011 21:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11020001	01/20/2011 10:45	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177812
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL036 SDG#: DX035-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	16.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177812
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL036 SDG#: DX035-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0385	U	0.0385	1.19	1
11031	12378-PeCDD	40321-76-4	0.0991	JBQ	0.0513	5.95	1
11031	123478-HxCDD	39227-28-6	0.187	JQ	0.0637	5.95	1
11031	123678-HxCDD	57653-85-7	0.733	JQ	0.0645	5.95	1
11031	123789-HxCDD	19408-74-3	0.394	J	0.0631	5.95	1
11031	1234678-HpCDD	35822-46-9	16.3	B	0.0821	5.95	1
11031	OCDD	3268-87-9	214	B	0.103	11.9	1
11031	2378-TCDF	51207-31-9	0.0447	JBQ	0.0433	1.19	1
11031	12378-PeCDF	57117-41-6	0.467	JB	0.0292	5.95	1
11031	23478-PeCDF	57117-31-4	0.0274	U	0.0274	5.95	1
11031	123478-HxCDF	70648-26-9	0.198	JBQ	0.0387	5.95	1
11031	123678-HxCDF	57117-44-9	0.197	JBQ	0.0369	5.95	1
11031	123789-HxCDF	72918-21-9	0.265	JB	0.0401	5.95	1
11031	234678-HxCDF	60851-34-5	0.158	JB	0.0368	5.95	1
11031	1234678-HpCDF	67562-39-4	2.28	JB	0.0439	5.95	1
11031	1234789-HpCDF	55673-89-7	0.149	JBQ	0.0519	5.95	1
11031	OCDF	39001-02-0	1.94	JB	0.0736	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177812
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL036 SDG#: DX035-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-036-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177812
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL036 SDG#: DX035-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11020001	01/29/2011 22:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11020001	01/20/2011 10:45	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-097-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177813
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL097 SDG#: DX035-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-097-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177813
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL097 SDG#: DX035-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0292	U	0.0292	1.19	1
11031	12378-PeCDD	40321-76-4	0.0368	U	0.0368	5.94	1
11031	123478-HxCDD	39227-28-6	0.0884	JQ	0.0455	5.94	1
11031	123678-HxCDD	57653-85-7	0.392	JQ	0.0469	5.94	1
11031	123789-HxCDD	19408-74-3	0.276	J	0.0438	5.94	1
11031	1234678-HpCDD	35822-46-9	9.09	B	0.0620	5.94	1
11031	OCDD	3268-87-9	93.8	B	0.0669	11.9	1
11031	2378-TCDF	51207-31-9	0.0491	JBQ	0.0291	1.19	1
11031	12378-PeCDF	57117-41-6	0.246	JBQ	0.0217	5.94	1
11031	23478-PeCDF	57117-31-4	0.150	JBQ	0.0204	5.94	1
11031	123478-HxCDF	70648-26-9	0.222	JB	0.0323	5.94	1
11031	123678-HxCDF	57117-44-9	0.165	JB	0.0285	5.94	1
11031	123789-HxCDF	72918-21-9	0.182	JBQ	0.0278	5.94	1
11031	234678-HxCDF	60851-34-5	0.0909	JB	0.0259	5.94	1
11031	1234678-HpCDF	67562-39-4	1.08	JB	0.0338	5.94	1
11031	1234789-HpCDF	55673-89-7	0.145	JBQ	0.0362	5.94	1
11031	OCDF	39001-02-0	2.26	JB	0.0593	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-097-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177813
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL097 SDG#: DX035-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-097-SA5C-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177813
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL097 SDG#: DX035-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11020001	01/29/2011 23:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11020001	01/20/2011 10:45	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-259-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177814
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL259 SDG#: DX035-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-259-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177814
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL259 SDG#: DX035-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0354	U	0.0354	1.10	1
11031	12378-PeCDD	40321-76-4	0.0303	U	0.0303	5.51	1
11031	123478-HxCDD	39227-28-6	0.0235	U	0.0235	5.51	1
11031	123678-HxCDD	57653-85-7	0.0250	U	0.0250	5.51	1
11031	123789-HxCDD	19408-74-3	0.0533	JQ	0.0238	5.51	1
11031	1234678-HpCDD	35822-46-9	0.235	JB	0.0384	5.51	1
11031	OCDD	3268-87-9	0.657	JB	0.0444	11.0	1
11031	2378-TCDF	51207-31-9	0.0306	JBQ	0.0268	1.10	1
11031	12378-PeCDF	57117-41-6	0.0265	JBQ	0.0151	5.51	1
11031	23478-PeCDF	57117-31-4	0.0629	JBQ	0.0160	5.51	1
11031	123478-HxCDF	70648-26-9	0.0335	JBQ	0.0170	5.51	1
11031	123678-HxCDF	57117-44-9	0.0358	JBQ	0.0146	5.51	1
11031	123789-HxCDF	72918-21-9	0.0193	U	0.0193	5.51	1
11031	234678-HxCDF	60851-34-5	0.0404	JB	0.0163	5.51	1
11031	1234678-HpCDF	67562-39-4	0.106	JBQ	0.0161	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0485	JB	0.0261	5.51	1
11031	OCDF	39001-02-0	0.174	JB	0.0480	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-259-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177814
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL259 SDG#: DX035-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-259-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177814
LLI Group # 1227828
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

Submitted: 01/05/2011 09:00
Reported: 02/07/2011 23:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL259 SDG#: DX035-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11020001	01/30/2011 00:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11020001	01/20/2011 10:45	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227828
Reported: 02/07/11 at 11:41 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11012162401A	Sample number(s): 6177810-6177814								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11019162401A	Sample number(s): 6177809								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11020001	Sample number(s): 6177809-6177814								
2378-TCDD	0.0279 U	0.0279	1.00	ng/kg	87		67-158		
12378-PeCDD	0.0513 J	0.0236	5.00	ng/kg	87		70-142		
123478-HxCDD	0.0187 U	0.0187	5.00	ng/kg	86		70-164		
123678-HxCDD	0.0189 U	0.0189	5.00	ng/kg	84		76-134		
123789-HxCDD	0.0176 U	0.0176	5.00	ng/kg	83		64-162		
1234678-HpCDD	0.183 J	0.0270	5.00	ng/kg	85		70-140		
OCDD	0.571 J	0.0211	10.0	ng/kg	84		78-144		
2378-TCDF	0.0348 J	0.0267	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0256 J	0.0123	5.00	ng/kg	86		80-134		
23478-PeCDF	0.0826 J	0.0124	5.00	ng/kg	85		68-160		
123478-HxCDF	0.0256 J	0.0157	5.00	ng/kg	83		72-134		
123678-HxCDF	0.0217 J	0.0122	5.00	ng/kg	84		84-130		
123789-HxCDF	0.0440 J	0.0140	5.00	ng/kg	83		78-130		
234678-HxCDF	0.0379 J	0.0124	5.00	ng/kg	83		70-156		
1234678-HpCDF	0.120 J	0.0103	5.00	ng/kg	82		82-122		
1234789-HpCDF	0.0341 J	0.0145	5.00	ng/kg	83		78-138		
OCDF	0.203 J	0.0272	10.0	ng/kg	84		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11012162401A	Sample number(s): 6177810-6177814					BKG: P177805			
28a Moisture Content by 160.3						9.2	9.5	3	20
Batch number: 11019162401A	Sample number(s): 6177809					BKG: P183549			
28a Moisture Content by 160.3						13.8	13.9	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1227828
Reported: 02/07/11 at 11:41 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11020001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6177809	68	80	68	75	72	77
6177810	74	82	73	77	77	85
6177811	78	86	78	74	77	83
6177812	71	81	71	71	72	76
6177813	80	90	65	73	78	85
6177814	69	78	67	75	71	69
Blank	81	89	71	87	86	88
OPR	74	82	69	80	74	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6177809	86	77	74	81	87	74
6177810	82	89	89	86	88	78
6177811	74	79	59	90	86	81
6177812	75	79	74	84	80	77
6177813	73	86	79	93	89	80
6177814	89	70	64	85	84	79
Blank	96	89	90	99	92	87
OPR	94	76	76	88	88	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6177809	78	76	83	83	68	80
6177810	79	79	89	92	79	83
6177811	76	79	78	58	82	86
6177812	74	75	80	76	76	80
6177813	79	82	86	82	85	87
6177814	76	80	84	81	70	84
Blank	89	93	100	103	81	98
OPR	82	84	90	92	73	91
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1227828 6177809-14

CHAIN OF CUSTODY RECORD

CDM

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 82608	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	**TPH-EH EPA 8015B Mod.	*Metals EPA 6010B/7000B&7471A	*Hex Chrome EPA 7196@	*Fluoride EPA 300.0	*PCBs EPA 8082	*Diesh/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-146-SA5B-SB-4.5	01.04.11	1153	soil	none	5 Encore Samples	X	X		X																				
SL-146-SA5B-SB-4.0-5.0	01.04.11	1158	soil	none	4 16 oz. Jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-140-SA5C-SS-0.0-0.5	01.04.11	0918	soil	none	1 16 oz. Jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-039-SA5C-SS-0.0-0.5	01.04.11	0948	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-036-SA5C-SS-0.0-0.5	01.04.11	1015	soil	none	1 16 oz. jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-097-SA5C-SS-0.0-0.5	01.04.11	1112	soil	none	1 16 oz. Jars & 1 6" sleeve			X			X	X	X	X	X	X		X	X										
SL-259-SA5B-SB-4.0-5.0	01.04.11	1502	soil	none	2 16 oz. jars			X		X	X	X	X	X	X	X													
SL-259-SA5B-SB-4.5	01.04.11	1458	soil	none	4 Encore Samples	X	X		X																				
SL-056-SA5C-SB-4.0-5.0	01.04.11	1416	soil	none	2 16 oz. jars	X		X	X	X	X	X	X	X															
SL-056-SA5C-SB-9.0-10.0	01.04.11	1605	soil	none	2 16 oz. Jars	X		X	X	X	X	X	X	X															
SL-056-SA5C-SB-9.0-10.0	01.04.11	1412	soil	none	4 Encore Samples	X	X		X																				
TB-010411	01.04.11	1230	water	HCL	4-40 ml Clear Voa Vials	X	X		X																				

Relinquished by: (Signature) Date/Time 01.04.11 1630

Received by: (Signature) Date/Time

Received for Laboratory by: (Signature) Date/Time 1-5-11 0900

Airbill No. 8695 1431 9906

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/06/2011
Group Number: 1228000
SDG: DE053
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
EB17-SA5C-010511 Water	6178511
SL-027-SA5B-SS-0.0-0.5 Soil	6178512
SL-038-SA5C-SB-4.0-5.0 Soil	6178513
SL-065-SA5B-SB-4.0-5.0 Soil	6178514
SL-065-SA5B-SB-9.0-10.0 Soil	6178515
SL-067-SA5B-SB-3.5-4.5 Soil	6178516
SL-068-SA5B-SB-3.0-4.0 Soil	6178517
SL-069-SA5B-SB-3.0-4.0 Soil	6178518
SL-070-SA5B-SB-2.5-3.5 Soil	6178519
SL-124-SA5C-SB-4.5-5.5 Soil	6178520
SL-137-SA5C-SB-4.5-5.5 Soil	6178521
SL-298-SA5B-SS-0.0-0.5 Soil	6178522
TB-010511 Water	6178523

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: EB17-SA5C-010511 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-17 SDG#: DE053-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB17-SA5C-010511 Water**
SSFL Area IV Collocated Soil Sampling
EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-17 SDG#: DE053-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.12	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.050	U	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.26	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.014	J	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.017	J	0.010	0.050		1
10137	Naphthalene	91-20-3	0.17		0.010	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.10	J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1

The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .088 ug/l
bis(2-ethylhexyl)phthalate .12 ug/l
di-n-octylphthalate .059 ug/l
These blank values were not subtracted from the analytical results.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1

*=This limit was used in the evaluation of the final result
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Sample Description: **EB17-SA5C-010511 Water**
SSFL Area IV Collocated Soil Sampling
EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-17 SDG#: DE053-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0787	J	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038	U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000053	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0047	J	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	

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Sample Description: EB17-SA5C-010511 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-17 SDG#: DE053-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11010WAC026	01/20/2011	14:07	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11008WAB026	01/15/2011	15:26	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	11010WAC026	01/10/2011	21:40	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11008WAB026	01/09/2011	15:45	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110100018A	01/14/2011	08:31	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110100018A	01/11/2011	03:30	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	110101848002	01/13/2011	07:42	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110106050002D	01/13/2011	16:11	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB17-SA5C-010511 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-17 SDG#: DE053-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110106050002C	01/13/2011 16:11	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110106050002B	01/13/2011 16:11	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110105713005	01/11/2011 07:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110101848002	01/11/2011 08:33	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110106050002	01/11/2011 08:30	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110105713005	01/10/2011 15:45	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11008196904A	01/08/2011 15:09	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11019621701A	01/19/2011 14:06	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11006196401A	01/06/2011 10:41	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.44	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.5		0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	7.9		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	7.0	21		1
10138	Fluoranthene	206-44-0	1.5	J	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	3.5		0.78	1.9		1
10138	Pyrene	129-00-0	7.2		0.78	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.0	U	7.0	21		5
10401	Dalapon	75-99-0	26	U	26	52		5
10401	2,4-DB	94-82-6	3.6	U	3.6	9.9		5
10401	Dicamba	1918-00-9	2.3	U	2.3	7.0		5
10401	Dinoseb	88-85-7	4.7	U	4.7	14		5
10401	2,4-DP (Dichlorprop)	120-36-5	4.7	U	4.7	9.9		5
10401	MCPA	94-74-6	440	U	440	1,500		5
10401	MCPP (Mecoprop)	93-65-2	440	U	440	1,500		5
10401	2,4,5-T	93-76-5	0.48	U	0.48	0.99		5
10401	2,4,5-TP	93-72-1	0.44	U	0.44	0.99		5

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.31	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.16	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,900		5.75	22.9		1
07914	Boron	7440-42-8	1.02	U	1.02	5.71		1
01650	Calcium	7440-70-2	2,290		7.00	22.9		1
01654	Iron	7439-89-6	19,000		5.38	22.9		1
01656	Lithium	7439-93-2	18.5		0.25	2.3		1
01657	Magnesium	7439-95-4	4,030		2.90	11.4		1
06958	Manganese	7439-96-5	303		0.0891	0.571		1
10145	Phosphorus	7723-14-0	277		0.640	11.4		1

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Sample Description: **SL-027-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,590		20.6	57.1		1
01667	Sodium	7440-23-5	128		42.6	114		1
07968	Strontium	7440-24-6	21.1		0.0708	0.571		1
06969	Tin	7440-31-5	2.44	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,370		0.434	1.14		1
10146	Zirconium	7440-67-7	2.27	J	0.960	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.285		0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.82		0.0686	0.457		2
06126	Barium	7440-39-3	119		0.123	0.457		2
06127	Beryllium	7440-41-7	0.733		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.154		0.0411	0.114		2
06131	Chromium	7440-47-3	19.1		0.137	0.457		2
06132	Cobalt	7440-48-4	5.97		0.0229	0.114		2
06133	Copper	7440-50-8	8.66		0.0754	0.457		2
06135	Lead	7439-92-1	6.81		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.766		0.0571	0.114		2
06139	Nickel	7440-02-0	10.9		0.114	0.457		2
06141	Selenium	7782-49-2	0.177	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0351	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.279		0.0343	0.114		2
06148	Vanadium	7440-62-2	49.6		0.0251	0.114		2
06149	Zinc	7440-66-6	47.7		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	380		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-027-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.51	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 20:59	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 14:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/12/2011 14:33	Michele D Hamilton	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	110170031A	02/03/2011 06:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 03:35	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110170031A	01/18/2011 08:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 12:57	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-027-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL027 SDG#: DE053-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 16:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 15:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 02:52	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.89
06192	Methylene Chloride	75-09-2	0.62	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

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Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.59
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		5.53	22.0		1
07914	Boron	7440-42-8	0.979	U	0.979	5.50		1
01650	Calcium	7440-70-2	2,230		6.74	22.0		1
01654	Iron	7439-89-6	19,100		5.18	22.0		1
01656	Lithium	7439-93-2	24.4		0.24	2.2		1
01657	Magnesium	7439-95-4	3,710		2.79	11.0		1
06958	Manganese	7439-96-5	217		0.0858	0.550		1
10145	Phosphorus	7723-14-0	227		0.616	11.0		1
01662	Potassium	7440-09-7	2,520		19.8	55.0		1
01667	Sodium	7440-23-5	80.5	J	41.0	110		1
07968	Strontium	7440-24-6	17.4		0.0682	0.550		1
06969	Tin	7440-31-5	2.64	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,220		0.418	1.10		1
10146	Zirconium	7440-67-7	1.45	J	0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0722	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.00		0.0647	0.431		2
06126	Barium	7440-39-3	89.7		0.117	0.431		2
06127	Beryllium	7440-41-7	0.562		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0763	J	0.0388	0.108		2
06131	Chromium	7440-47-3	16.7		0.129	0.431		2
06132	Cobalt	7440-48-4	4.08		0.0216	0.108		2
06133	Copper	7440-50-8	4.83		0.0712	0.431		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	5.03	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.409	0.0539	0.108		2
06139	Nickel	7440-02-0	9.00	0.108	0.431		2
06141	Selenium	7782-49-2	0.0927 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0235 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.283	0.0324	0.108		2
06148	Vanadium	7440-62-2	33.9	0.0237	0.108		2
06149	Zinc	7440-66-6	59.2	0.604	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	453	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.70	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-038-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL038 SDG#: DE053-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 15:36	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 20:02	Sara E Johnson	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:54	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:55	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 21:34	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 14:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 03:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:21	Damary Valentin	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-038-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL038 SDG#: DE053-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 16:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 16:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 03:04	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.1		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.93
06192	Methylene Chloride	75-09-2	0.45	J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.73
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.1		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.5		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.9		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.5		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	5.3		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	3.5		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

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Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.3	J	0.74	1.8		1
10138	Pyrene	129-00-0	3.2		0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.2	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.62	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.38		1
01650	Calcium	7440-70-2	5,040		6.59	21.5		1
01654	Iron	7439-89-6	24,200		5.06	21.5		1
01656	Lithium	7439-93-2	33.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,400		2.73	10.8		1
06958	Manganese	7439-96-5	308		0.0839	0.538		1
10145	Phosphorus	7723-14-0	524		0.602	10.8		1
01662	Potassium	7440-09-7	2,740		19.4	53.8		1
01667	Sodium	7440-23-5	329		40.1	108		1
07968	Strontium	7440-24-6	21.8		0.0667	0.538		1
06969	Tin	7440-31-5	2.83	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,390		0.409	1.08		1
10146	Zirconium	7440-67-7	1.26	J	0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.244		0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.26		0.0639	0.426		2
06126	Barium	7440-39-3	91.7		0.115	0.426		2
06127	Beryllium	7440-41-7	0.678		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.130		0.0383	0.106		2
06131	Chromium	7440-47-3	25.0		0.128	0.426		2
06132	Cobalt	7440-48-4	6.08		0.0213	0.106		2
06133	Copper	7440-50-8	12.3		0.0703	0.426		2

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Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	7.24	0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.680	0.0532	0.106		2
06139	Nickel	7440-02-0	15.9	0.106	0.426		2
06141	Selenium	7782-49-2	0.176 J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0171 J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.430	0.0319	0.106		2
06148	Vanadium	7440-62-2	51.4	0.0234	0.106		2
06149	Zinc	7440-66-6	82.0	0.596	3.19		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89 U	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	374	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.69	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-065-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL654 SDG#: DE053-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 15:59	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 20:22	Sara E Johnson	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:57	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:58	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 22:09	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 15:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 04:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:23	Damary Valentin	1

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Sample Description: **SL-065-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

Submitted: 01/06/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL654 SDG#: DE053-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 17:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 17:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 03:17	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-9.0-10.0

LLI Sample # SW 6178515
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:14

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL659 SDG#: DE053-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-065-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-9.0-10.0

LLI Sample # SW 6178515
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:14

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL659 SDG#: DE053-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.80	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.9		0.36	1.9		1
10225	PCB-1260	11096-82-5	1.1	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400		5.43	21.6		1

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Sample Description: **SL-065-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-9.0-10.0

LLI Sample # SW 6178515
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:14

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL659 SDG#: DE053-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.960	U	0.960	5.39		1
01650	Calcium	7440-70-2	5,140		6.61	21.6		1
01654	Iron	7439-89-6	25,600		5.08	21.6		1
01656	Lithium	7439-93-2	34.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,920		2.74	10.8		1
06958	Manganese	7439-96-5	322		0.0841	0.539		1
10145	Phosphorus	7723-14-0	526		0.604	10.8		1
01662	Potassium	7440-09-7	3,200		19.4	53.9		1
01667	Sodium	7440-23-5	380		40.2	108		1
07968	Strontium	7440-24-6	23.1		0.0669	0.539		1
06969	Tin	7440-31-5	2.82	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,440		0.410	1.08		1
10146	Zirconium	7440-67-7	1.59	J	0.906	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.595		0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.63		0.0654	0.436		2
06126	Barium	7440-39-3	104		0.118	0.436		2
06127	Beryllium	7440-41-7	0.675		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.184		0.0392	0.109		2
06131	Chromium	7440-47-3	24.7		0.131	0.436		2
06132	Cobalt	7440-48-4	7.81		0.0218	0.109		2
06133	Copper	7440-50-8	11.7		0.0719	0.436		2
06135	Lead	7439-92-1	7.59		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.713		0.0545	0.109		2
06139	Nickel	7440-02-0	14.4		0.109	0.436		2
06141	Selenium	7782-49-2	0.166	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0320	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.320		0.0327	0.109		2
06148	Vanadium	7440-62-2	54.6		0.0240	0.109		2
06149	Zinc	7440-66-6	87.1		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1		1

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Sample Description: **SL-065-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-9.0-10.0

LLI Sample # SW 6178515
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:14

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL659 SDG#: DE053-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	272	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	9.79	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011	22:44	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011	15:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011	16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011	04:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011	04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011	13:33	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011	09:49	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-9.0-10.0

LLI Sample # SW 6178515
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:14

Submitted: 01/06/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL659 SDG#: DE053-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 17:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 18:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243201A	01/21/2011 03:23	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6		0.86
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.86
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.86
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.86
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.86
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.86
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.86
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.86
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.86
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.86
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.86
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.86
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.86
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.86
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.86
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.86
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.86
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.86
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.86
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.86
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.86
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.86
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.86
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.86
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.86
06192	Methylene Chloride	75-09-2	0.23	U	0.23	3.8		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.86

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Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.86
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.86
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.82
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

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Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.47	21.8		1
07914	Boron	7440-42-8	0.968	U	0.968	5.44		1
01650	Calcium	7440-70-2	2,810		6.67	21.8		1
01654	Iron	7439-89-6	22,600		5.12	21.8		1
01656	Lithium	7439-93-2	24.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,670		2.76	10.9		1
06958	Manganese	7439-96-5	606		0.0849	0.544		1
10145	Phosphorus	7723-14-0	499		0.609	10.9		1
01662	Potassium	7440-09-7	2,980		19.6	54.4		1
01667	Sodium	7440-23-5	238		40.6	109		1
07968	Strontium	7440-24-6	19.8		0.0675	0.544		1
06969	Tin	7440-31-5	2.97	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,140		0.413	1.09		1
10146	Zirconium	7440-67-7	2.17	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.200	J	0.0634	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.18		0.0634	0.423		2
06126	Barium	7440-39-3	111		0.114	0.423		2
06127	Beryllium	7440-41-7	0.873		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0977	J	0.0380	0.106		2
06131	Chromium	7440-47-3	29.4		0.127	0.423		2
06132	Cobalt	7440-48-4	9.40		0.0211	0.106		2
06133	Copper	7440-50-8	7.56		0.0697	0.423		2

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Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	7.03		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.720		0.0528	0.106		2
06139	Nickel	7440-02-0	13.0		0.106	0.423		2
06141	Selenium	7782-49-2	0.157	J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0277	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.357		0.0317	0.106		2
06148	Vanadium	7440-62-2	63.5		0.0232	0.106		2
06149	Zinc	7440-66-6	61.4		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0087	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	549		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.69		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-067-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE053-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 19:21	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 23:18	Sara E Johnson	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:06	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:06	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:09	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 23:19	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 16:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 04:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2

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Sample Description: **SL-067-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE053-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 18:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 18:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 03:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.7		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.84
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.7		0.84
06192	Methylene Chloride	75-09-2	0.29	J	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.84

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Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-068-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,400		5.72	22.7		1
07914	Boron	7440-42-8	1.01	U	1.01	5.68		1
01650	Calcium	7440-70-2	5,920		6.97	22.7		1
01654	Iron	7439-89-6	38,900		26.8	114		5
01656	Lithium	7439-93-2	35.7		0.25	2.3		1
01657	Magnesium	7439-95-4	9,240		2.89	11.4		1
06958	Manganese	7439-96-5	266		0.0886	0.568		1
10145	Phosphorus	7723-14-0	696		0.636	11.4		1
01662	Potassium	7440-09-7	3,290		20.5	56.8		1
01667	Sodium	7440-23-5	230		42.4	114		1
07968	Strontium	7440-24-6	33.1		0.0705	0.568		1
06969	Tin	7440-31-5	3.38	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,680		0.432	1.14		1
10146	Zirconium	7440-67-7	1.43	J	0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.422		0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	17.2		0.0675	0.450		2
06126	Barium	7440-39-3	109		0.122	0.450		2
06127	Beryllium	7440-41-7	1.13		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0610	J	0.0405	0.113		2
06131	Chromium	7440-47-3	40.7		0.135	0.450		2
06132	Cobalt	7440-48-4	7.67		0.0225	0.113		2
06133	Copper	7440-50-8	24.5		0.0743	0.450		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL068 SDG#: DE053-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	13.4		0.0117	0.225		2
06138	Molybdenum		7439-98-7	0.659		0.0563	0.113		2
06139	Nickel		7440-02-0	17.6		0.113	0.450		2
06141	Selenium		7782-49-2	0.409	J	0.0450	0.450		2
06142	Silver		7440-22-4	0.0207	J	0.0135	0.113		2
06145	Thallium		7440-28-0	0.503		0.0338	0.113		2
06148	Vanadium		7440-62-2	81.6		0.0248	0.113		2
06149	Zinc		7440-66-6	96.9		0.630	3.38		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	3.8		0.91	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.2	U	10.2	34.1		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.35	J	0.23	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	542		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.95		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-068-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL068 SDG#: DE053-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 16:21	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 20:41	Sara E Johnson	23.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:36	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:36	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 23:54	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 16:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 05:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/15/2011 00:50	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:30	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-068-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL068 SDG#: DE053-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 18:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 18:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 03:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.98
06192	Methylene Chloride	75-09-2	0.32	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: **SL-069-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.37
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.9	U	17.9	35.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.02
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

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14420 Albemarle Point Place
Suite 210
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SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.46	J	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	3.1		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
	The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.38		1
01650	Calcium	7440-70-2	2,410		6.59	21.5		1
01654	Iron	7439-89-6	21,900		5.06	21.5		1
01656	Lithium	7439-93-2	18.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,600		2.73	10.8		1
06958	Manganese	7439-96-5	192		0.0839	0.538		1
10145	Phosphorus	7723-14-0	423		0.602	10.8		1
01662	Potassium	7440-09-7	3,640		19.4	53.8		1
01667	Sodium	7440-23-5	244		40.1	108		1
07968	Strontium	7440-24-6	16.1		0.0667	0.538		1
06969	Tin	7440-31-5	2.60	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,330		0.409	1.08		1
10146	Zirconium	7440-67-7	1.12	J	0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0620	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.68		0.0620	0.414		2
06126	Barium	7440-39-3	78.8		0.112	0.414		2
06127	Beryllium	7440-41-7	0.578		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0526	J	0.0372	0.103		2
06131	Chromium	7440-47-3	18.2		0.124	0.414		2
06132	Cobalt	7440-48-4	4.96		0.0207	0.103		2
06133	Copper	7440-50-8	6.34		0.0682	0.414		2
06135	Lead	7439-92-1	4.63		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.377		0.0517	0.103		2
06139	Nickel	7440-02-0	8.68		0.103	0.414		2
06141	Selenium	7782-49-2	0.186	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0124	U	0.0124	0.103		2
06145	Thallium	7440-28-0	0.299		0.0310	0.103		2
06148	Vanadium	7440-62-2	44.1		0.0227	0.103		2
06149	Zinc	7440-66-6	59.4		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.9		0.86	1.6		1

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	523		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.61		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-069-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011	16:44	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011	21:01	Sara E Johnson	24.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011	14:40	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011	15:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011	15:00	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011	14:40	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011	09:08	Timothy J Trees	1

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Sample Description: **SL-069-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE053-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 00:29	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 11:38	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011 10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 14:07	Marie D John	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:39	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 05:49	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 18:11	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 05:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110130009A	01/15/2011 11:24	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110060008A	01/06/2011 16:55	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 22:20	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110100011A	01/14/2011 09:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110130009A	01/13/2011 14:10	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	110100011A	01/10/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110060008A	01/06/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2

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Sample Description: **SL-069-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE053-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 13:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11017017202B	01/19/2011 13:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 19:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243201A	01/21/2011 04:00	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011 18:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011 09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.92
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.92
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.92
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.92
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.92
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.92
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.92
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.92
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.92
06192	Methylene Chloride	75-09-2	0.29	J	0.24	3.9		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.92

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-070-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.92
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.9	U	17.9	35.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100		1

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Sample Description: **SL-070-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	J	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.62	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: **SL-070-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.72
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.64	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	26		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	36		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
	The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: **SL-070-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.34	21.2		1
07914	Boron	7440-42-8	0.944	U	0.944	5.31		1
01650	Calcium	7440-70-2	3,600		6.51	21.2		1
01654	Iron	7439-89-6	19,700		5.00	21.2		1
01656	Lithium	7439-93-2	25.4		0.23	2.1		1
01657	Magnesium	7439-95-4	4,770		2.70	10.6		1
06958	Manganese	7439-96-5	284		0.0828	0.531		1
10145	Phosphorus	7723-14-0	401		0.594	10.6		1
01662	Potassium	7440-09-7	2,630		19.1	53.1		1
01667	Sodium	7440-23-5	410		39.6	106		1
07968	Strontium	7440-24-6	17.9		0.0658	0.531		1
06969	Tin	7440-31-5	2.73	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,290		0.403	1.06		1
10146	Zirconium	7440-67-7	1.63	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.254		0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.55		0.0643	0.429		2
06126	Barium	7440-39-3	112		0.116	0.429		2
06127	Beryllium	7440-41-7	0.601		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.172		0.0386	0.107		2
06131	Chromium	7440-47-3	24.8		0.129	0.429		2
06132	Cobalt	7440-48-4	6.83		0.0214	0.107		2
06133	Copper	7440-50-8	10.0		0.0707	0.429		2
06135	Lead	7439-92-1	6.74		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.582		0.0536	0.107		2
06139	Nickel	7440-02-0	14.3		0.107	0.429		2
06141	Selenium	7782-49-2	0.199	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0147	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.337		0.0322	0.107		2
06148	Vanadium	7440-62-2	51.8		0.0236	0.107		2
06149	Zinc	7440-66-6	73.1		0.600	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.97	J	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	26.3	J	9.6	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.21	1.1		1

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Sample Description: **SL-070-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.18	U	0.18	0.51		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	423		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.97		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-070-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011	17:06	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011	21:21	Sara E Johnson	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011	14:43	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011	15:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011	15:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011	14:44	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011	09:24	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011	01:03	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011	12:10	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011	10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011	16:30	JoElla L Rice	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 14:44	Marie D John	23.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:43	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 07:56	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 18:30	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 05:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110130009A	01/15/2011 11:49	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110060008A	01/06/2011 17:09	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 20:39	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110100011A	01/14/2011 11:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110130009A	01/13/2011 14:10	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	110100011A	01/10/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110060008A	01/06/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:48	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:55	Choon Y Tian	2

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Sample Description: **SL-070-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL070 SDG#: DE053-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 13:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11017017202B	01/19/2011 13:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 19:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 04:19	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011 18:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011 09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3	J	7.9	9.4		1.04
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.04
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7		1.04
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.04
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.4		1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.04
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7		1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7		1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.04
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7		1.04
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7		1.04
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.7		1.04
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.04
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.04
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.04
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.04
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.04
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7		1.04
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7		1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.04
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7		1.04
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.4		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.4		1.04
06192	Methylene Chloride	75-09-2	0.75	J	0.28	4.7		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.04

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Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.04
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.7		1.04
06192	Toluene	108-88-3	0.09	J	0.09	4.7		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.7		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7		1.04
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.04
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.04
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.7		1.04
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7		1.04
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.11
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	J	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	4.9		0.37	1.9		1
10225	PCB-1260	11096-82-5	2.7		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,900		5.61	22.3		1
07914	Boron	7440-42-8	1.06	J	0.992	5.57		1
01650	Calcium	7440-70-2	4,180		6.83	22.3		1
01654	Iron	7439-89-6	27,200		5.25	22.3		1
01656	Lithium	7439-93-2	34.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,650		2.83	11.1		1
06958	Manganese	7439-96-5	272		0.0870	0.557		1
10145	Phosphorus	7723-14-0	108		0.624	11.1		1
01662	Potassium	7440-09-7	1,930		20.1	55.7		1
01667	Sodium	7440-23-5	315		41.6	111		1
07968	Strontium	7440-24-6	39.7		0.0691	0.557		1
06969	Tin	7440-31-5	2.58	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,230		0.424	1.11		1
10146	Zirconium	7440-67-7	2.96	J	0.937	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.185	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.10		0.0650	0.433		2
06126	Barium	7440-39-3	153		0.117	0.433		2
06127	Beryllium	7440-41-7	1.03		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.140		0.0390	0.108		2
06131	Chromium	7440-47-3	32.1		0.130	0.433		2
06132	Cobalt	7440-48-4	7.75		0.0217	0.108		2
06133	Copper	7440-50-8	9.29		0.0715	0.433		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1244 SDG#: DE053-10

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	9.57		0.0113	0.217		2
06138	Molybdenum		7439-98-7	0.243		0.0541	0.108		2
06139	Nickel		7440-02-0	19.8		0.108	0.433		2
06141	Selenium		7782-49-2	0.0992	J	0.0433	0.433		2
06142	Silver		7440-22-4	0.105	J	0.0130	0.108		2
06145	Thallium		7440-28-0	0.304		0.0325	0.108		2
06148	Vanadium		7440-62-2	71.2		0.0238	0.108		2
06149	Zinc		7440-66-6	87.8		0.606	3.25		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0127	J	0.0032	0.111		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	3.3		0.90	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.8		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.38	J	0.23	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	516		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.65		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	11.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-124-SA5C-SB-5.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1244 SDG#: DE053-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 17:29	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 21:40	Sara E Johnson	23.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:46	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:47	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 01:38	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 12:42	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 06:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:51	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:34	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-124-SA5C-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1244 SDG#: DE053-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 18:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 19:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 04:31	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		1.03
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.03
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7		1.03
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.03
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.03
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7		1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7		1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.03
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7		1.03
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7		1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7		1.03
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.03
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.03
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.03
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.03
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.03
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7		1.03
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7		1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.03
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7		1.03
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.7		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.3		1.03
06192	Methylene Chloride	75-09-2	0.31	J	0.28	4.7		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.03

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Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7		1.03
06192	Toluene	108-88-3	0.09	U	0.09	4.7		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.7		1.03
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.03
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7		1.03
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7		1.03
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.99
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	4.6	J	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	3.2	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	8.8		0.37	1.9		1
10225	PCB-1260	11096-82-5	4.6		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,700		5.58	22.2		1
07914	Boron	7440-42-8	0.988	U	0.988	5.55		1
01650	Calcium	7440-70-2	4,920		6.81	22.2		1
01654	Iron	7439-89-6	26,300		5.23	22.2		1
01656	Lithium	7439-93-2	23.3		0.24	2.2		1
01657	Magnesium	7439-95-4	4,500		2.82	11.1		1
06958	Manganese	7439-96-5	386		0.0866	0.555		1
10145	Phosphorus	7723-14-0	190		0.622	11.1		1
01662	Potassium	7440-09-7	2,540		20.0	55.5		1
01667	Sodium	7440-23-5	153		41.4	111		1
07968	Strontium	7440-24-6	36.5		0.0688	0.555		1
06969	Tin	7440-31-5	2.55	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,270		0.422	1.11		1
10146	Zirconium	7440-67-7	2.99	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.276		0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.18		0.0680	0.453		2
06126	Barium	7440-39-3	200		0.122	0.453		2
06127	Beryllium	7440-41-7	1.07		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.270		0.0408	0.113		2

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Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	38.3	0.136	0.453		2
06132	Cobalt	7440-48-4	8.88	0.0227	0.113		2
06133	Copper	7440-50-8	13.1	0.0747	0.453		2
06135	Lead	7439-92-1	10.5	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.771	0.0566	0.113		2
06139	Nickel	7440-02-0	20.4	0.113	0.453		2
06141	Selenium	7782-49-2	0.285 J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0660 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.412	0.0340	0.113		2
06148	Vanadium	7440-62-2	81.1	0.0249	0.113		2
06149	Zinc	7440-66-6	71.9	0.634	3.40		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	413	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-137-SA5C-SB-5.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-137-SA5C-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

Submitted: 01/06/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1374 SDG#: DE053-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 17:51	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 21:59	Sara E Johnson	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:51	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:52	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 02:13	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 13:15	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 15:46	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 06:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:55	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:01	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-137-SA5C-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1374 SDG#: DE053-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 18:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 20:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 04:56	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101B	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401B	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	7.5	J	3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	6.3	J	3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	9.5		3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.1		5
10138	Chrysene	218-01-9	8.8	J	1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1		5
10138	Fluoranthene	206-44-0	3.6	U	3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	3.6	U	3.6	9.1		5
10138	Pyrene	129-00-0	5.0	J	3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	2.5	U	2.5	2.5		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.32	U	0.32	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	83	U	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-298-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.45	U	0.45	0.45		1
01363	p,p-DDE	72-55-9	0.33	U	0.33	0.37		1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	1.0	U	1.0	1.0		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.59	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-298-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.27	20.9		1
07914	Boron	7440-42-8	0.932	U	0.932	5.24		1
01650	Calcium	7440-70-2	4,150		6.42	20.9		1
01654	Iron	7439-89-6	20,800		4.93	20.9		1
01656	Lithium	7439-93-2	14.9		0.23	2.1		1
01657	Magnesium	7439-95-4	5,100		2.66	10.5		1
06958	Manganese	7439-96-5	346		0.0817	0.524		1
10145	Phosphorus	7723-14-0	690		0.587	10.5		1
01662	Potassium	7440-09-7	3,620		18.9	52.4		1
01667	Sodium	7440-23-5	338		39.1	105		1
07968	Strontium	7440-24-6	28.6		0.0649	0.524		1
06969	Tin	7440-31-5	2.12	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,500		0.398	1.05		1
10146	Zirconium	7440-67-7	1.13	J	0.880	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.32		0.0647	0.431		2
06126	Barium	7440-39-3	155		0.116	0.431		2
06127	Beryllium	7440-41-7	0.438		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.201		0.0388	0.108		2
06131	Chromium	7440-47-3	18.3		0.129	0.431		2
06132	Cobalt	7440-48-4	6.87		0.0216	0.108		2
06133	Copper	7440-50-8	14.3		0.0712	0.431		2
06135	Lead	7439-92-1	5.71		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.526		0.0539	0.108		2
06139	Nickel	7440-02-0	11.9		0.108	0.431		2
06141	Selenium	7782-49-2	0.0896	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0329	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.289		0.0324	0.108		2
06148	Vanadium	7440-62-2	57.1		0.0237	0.108		2
06149	Zinc	7440-66-6	62.1		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-298-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL298 SDG#: DE053-12

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	433	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.19	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 02:48	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 13:48	Mark A Clark	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/10/2011 21:52	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110170031A	02/03/2011 07:12	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 06:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110170031A	01/18/2011 08:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:59	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1

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Analysis Report

Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL298 SDG#: DE053-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 19:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 20:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 05:09	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101B	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401B	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-010511 Water**
SSFL Area IV Collocated Soil Sampling
TB-010511

LLI Sample # WW 6178523
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 08:00

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB105 SDG#: DE053-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-010511 Water
SSFL Area IV Collocated Soil Sampling
TB-010511

LLI Sample # WW 6178523
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 08:00

Submitted: 01/06/2011 09:00
Reported: 02/07/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB105 SDG#: DE053-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110101AA	01/10/2011	14:41	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110101AA	01/10/2011	14:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110101AA	01/10/2011	14:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110101AA	01/10/2011	14:41	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11007A20A	01/07/2011	18:24	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11007A20A	01/07/2011	18:24	Katrina T Longenecker	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110071AA	Sample number(s): 6178513-6178514,6178516-6178521									
Acetone	6.7	U	6.7	8.0	ug/kg	172		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	90		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	99		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	69		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	92		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	87		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	104		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	79		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	77		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	91		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	138*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	91		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	103		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	94		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	85		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	95		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	105		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	90		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	83		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	95		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	93		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69		61-134		
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	95		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	95		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	88		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106		77-120		
Toluene	0.15	J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	82		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	91		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	78		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	89		80-120		
Batch number: E110071AA	Sample number(s): 6178513-6178514,6178516-6178521									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	110	70-130	1	30
Batch number: E110101AA	Sample number(s): 6178523									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	104	60-132	2	30
Batch number: Y110101AA	Sample number(s): 6178523									
Acetone	6	U	6.	20	ug/l	106	99	49-234	7	30
Benzene	0.5	U	0.5	5	ug/l	102	97	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	104	101	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	104	99	80-120	4	30
Bromoform	1	U	1.	5	ug/l	99	94	61-120	5	30
Bromomethane	1	U	1.	5	ug/l	94	86	44-120	9	30
2-Butanone	3	U	3.	10	ug/l	106	102	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	104	98	78-120	6	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	96	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	106	98	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	97	80-120	5	30
Chloroethane	1	U	1.	5	ug/l	90	87	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	109	103	77-122	6	30
Chloromethane	1	U	1.	5	ug/l	100	96	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	105	99	80-120	5	30
4-Chlorotoluene	1	U	1.	5	ug/l	102	98	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	87	87	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	104	99	66-120	5	30
Dibromochloromethane	1	U	1.	5	ug/l	100	95	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	106	101	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	93	80-120	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	96	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	91	85	47-120	7	30
1,1-Dichloroethane	1	U	1.	5	ug/l	104	98	79-120	6	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	114	108	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	109	105	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	98	80-120	6	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	96	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	96	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	99	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	106	98	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	99	80-120	6	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	94	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	99	97	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	102	98	79-120	4	30
Freon 113	2	U	2.	10	ug/l	113	108	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	95	92	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	91	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	105	102	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	102	97	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	99	80-120	5	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	104	100	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	106	101	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	100	92	80-120	8	30
n-Propylbenzene	1	U	1.	5	ug/l	105	100	80-120	5	30
Styrene	1	U	1.	5	ug/l	101	97	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	98	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	102	98	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	101	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	101	95	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	99	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	94	88	75-127	6	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	97	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	106	99	80-120	7	30
Trichlorofluoromethane	2	U	2.	5	ug/l	102	95	64-129	7	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	106	105	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	104	99	74-120	5	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	98	75-120	6	30
Vinyl Chloride	1	U	1.	5	ug/l	88	83	65-125	6	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	95	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	99	96	80-120	4	30
Batch number: 11006SLA026	Sample number(s): 6178512-6178522									
Aniline	170 U		170.	500	ug/kg	54		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzoic acid	170 U		170.	500	ug/kg	88		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	87		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	96		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	93		79-112		
Carbazole	17	U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	43		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	84		67-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	44		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	102		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	108		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		68-105		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	62		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	98		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	97		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	84		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	75		35-106		
Phenol	17	U	17.	170	ug/kg	92		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 11006SLC026	Sample number(s): 6178512-6178522									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	110		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	95		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	116		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	135		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		79-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	122		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	122		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	123		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	101		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	136		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		56-121		
Batch number: 11008WAB026	Sample number(s): 6178511									
Acenaphthene	0.010	U	0.010	0.050	ug/l	95	94	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	102	100	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	100	98	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	105	100	72-114	5	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	118*	117*	64-115	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	109	122	69-123	11	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	120	119	68-125	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	129*	130*	72-122	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	99	94	70-130	6	30
Di-n-butylphthalate	0.088	J	0.050	1.0	ug/l	115	115	70-130	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	101	97	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	119	110	71-125	8	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	98	98	70-130	0	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	82	81	70-130	2	30
Bis(2-Ethylhexyl)phthalate	0.12	J	0.050	1.0	ug/l	125	126	70-130	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	93	75-116	7	30
Fluorene	0.010	U	0.010	0.050	ug/l	102	97	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	119	110	69-124	7	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	101	75-115	3	30
Naphthalene	0.010	U	0.010	0.050	ug/l	98	93	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	57*	55*	70-130	3	30
Di-n-octylphthalate	0.059	J	0.050	1.0	ug/l	120	129	70-130	7	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	100	96	76-111	5	30
Pyrene	0.010	U	0.010	0.050	ug/l	100	95	69-118	5	30
Batch number: 11010WAC026	Sample number(s): 6178511									
Aniline	1	U	1.	5	ug/l	71	67	49-101	7	30
Benzidine	20	U	20.	60	ug/l	53	52	20-109	1	30
Benzoic acid	6	U	6.	15	ug/l	32	14	10-69	80*	30
Benzyl alcohol	5	U	5.	15	ug/l	84	86	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	96	82-117	2	30
Carbazole	1	U	1.	5	ug/l	102	100	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	98	99	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	47	49	42-124	4	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	97	97	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	97	100	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	96	97	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	83	84	54-132	0	30
2-Chlorophenol	1	U	1.	5	ug/l	98	99	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	99	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	99	99	83-108	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	93	67-108	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	90	92	63-110	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	89	91	65-113	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	66	68	49-111	3	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	101	100	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	99	100	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	108	106	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	82	86	78-119	5	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	69	71	64-120	2	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	98	99	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	101	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	102	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	98	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	92	91	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	57	62	10-118	9	30
Hexachloroethane	1	U	1.	5	ug/l	83	86	52-113	4	30
Isophorone	1	U	1.	5	ug/l	99	99	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	93	94	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	80	80	61-103	0	30
2-Nitroaniline	1	U	1.	5	ug/l	100	102	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	96	98	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	84	83	59-100	1	30
Nitrobenzene	1	U	1.	5	ug/l	98	100	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	99	103	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	43	44	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	100	99	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	98	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	85	85	53-110	0	30
Phenol	1	U	1.	5	ug/l	43	42	29-67	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	96	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	100	100	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	102	81-113	2	30
Batch number: 11011SLB026	Sample number(s): 6178518-6178519									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11007A20A	Sample number(s): 6178523									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	85	100	75-135	16	30
Batch number: 11010A34A	Sample number(s): 6178518-6178519									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76	80	67-119	5	30
Batch number: 110110003A	Sample number(s): 6178518-6178519									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	93	83	54-134	12	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	93	82	54-134	12	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	107		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100 U		100.	300	ug/kg	94		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	107		73-127		

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Quality Control Summary

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Reported: 02/07/11 at 10:19 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800 U		800.	2,400	ug/kg	111		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 110100020A	Sample number(s): 6178518-6178519									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 110060007A	Sample number(s): 6178512,6178522									
2,4-D	1.2	U	1.2	3.6	ug/kg	102		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	84		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	81		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		60-141		
MCPA	76	U	76.	250	ug/kg	99		34-113		
MCPP (Mecoprop)	100 J		75.	250	ug/kg	87		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	96		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	89		48-138		
Batch number: 110200023A	Sample number(s): 6178521									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110080006A	Sample number(s): 6178512-6178522									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67*	69*	75-125	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	107		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110100018A	Sample number(s): 6178511									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	58*	62*	75-125	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	98	68-119	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	102	100	68-121	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110170031A	Sample number(s): 6178512,6178522									
Aldrin	0.066	U	0.066	0.17	ug/kg	124		44-135		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Alpha BHC	0.034	U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	96		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	126		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	86		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	92		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	73		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	105		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	122		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	91		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	88		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	138		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	124		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	85		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110130009A	Sample number(s): 6178518-6178519									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110060008A	Sample number(s): 6178518-6178519									
Ethanol	100	U	100.	500	ug/kg	107		75-112		
Isopropanol	100	U	100.	500	ug/kg	96		75-125		
Methanol	100	U	100.	500	ug/kg	103		75-134		
Batch number: 110180028A	Sample number(s): 6178518-6178519									
Diethylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Batch number: 110100011A	Sample number(s): 6178518-6178519									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
Batch number: 110061026001A	Sample number(s): 6178512-6178522									
Antimony	0.0600	U	0.0600	0.200	mg/kg	120		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	109		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		82-118		
Cadmium	0.0360	U	0.0360	0.100	mg/kg	108		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	118		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	112		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	117		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	112		81-119		

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Quality Control Summary

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vanadium	0.0220 U	0.0220	0.100	mg/kg	106		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	104		78-122		
Batch number: 110061026001B	Sample number(s): 6178512-6178522								
Selenium	0.0400 U	0.0400	0.400	mg/kg	114		79-122		
Batch number: 110061026001C	Sample number(s): 6178512-6178522								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 110061026001D	Sample number(s): 6178512-6178522								
Barium	0.108 U	0.108	0.400	mg/kg	106		79-121		
Batch number: 110065708002	Sample number(s): 6178512-6178522								
Aluminum	5.03 U	5.03	20.0	mg/kg	107		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	106		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	104		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	103		81-119		
Phosphorus	1.78 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	103		78-110		
Sodium	37.3 U	37.3	100	mg/kg	103		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	110		79-121		
Tin	1.51 J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	114		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110065711001	Sample number(s): 6178512-6178522								
Mercury	0.0029 U	0.0029	0.0996	mg/kg	97		88-123		
Batch number: 110101848002	Sample number(s): 6178511								
Aluminum	0.0834 U	0.0834	0.200	mg/l	95	94	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	91	90	90-110	0	20
Calcium	0.0891 J	0.0702	0.200	mg/l	101	100	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	98	98	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	100	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	98	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	99	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	97	98	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	97	98	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	97	98	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	99	98	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	97	98	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	99	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	99	100	80-120	1	20
Batch number: 110105713005	Sample number(s): 6178511								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	107	107	80-120	0	20
Batch number: 110106050002A	Sample number(s): 6178511								
Antimony	0.00030 U	0.00030	0.0010	mg/l	109	104	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	104	97	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	107	107	90-112	0	20
Cadmium	0.00029 J	0.00020	0.00050	mg/l	105	111	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	99	105	90-118	6	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	105	80-120	6	20

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Copper	0.00038 U	0.00038	0.0020	mg/l	102	106	90-113	4	20
Lead	0.00027 J	0.00005 2	0.0010	mg/l	100	105	90-115	5	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	100	103	90-113	4	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	102	102	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	108	89-116	10	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	104	80-120	6	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	113	80-120	9	20
Batch number: 110106050002B	Sample number(s): 6178511								
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	109	85-114	3	20
Batch number: 110106050002C	Sample number(s): 6178511								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	102	80-120	2	20
Batch number: 110106050002D	Sample number(s): 6178511								
Barium	0.00038 U	0.00038	0.0020	mg/l	102	104	88-113	2	20
Batch number: 11006196401A	Sample number(s): 6178511								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	97	90-110	4	20
Batch number: 11008196904A	Sample number(s): 6178511								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	1	20
Batch number: 11014102201A	Sample number(s): 6178518-6178519								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11017017201A	Sample number(s): 6178512								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11017017201B	Sample number(s): 6178513-6178522								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11017017202A	Sample number(s): 6178512								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11017017202B	Sample number(s): 6178513-6178522								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	93		90-110		
Batch number: 11018243201A	Sample number(s): 6178512-6178522								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	87		80-120		
Batch number: 11019621701A	Sample number(s): 6178511								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	91		85-115		
Batch number: 11007039401A	Sample number(s): 6178512-6178520								
22a pH by 9045C					100		95-105		
Batch number: 11007039401B	Sample number(s): 6178521-6178522								
22a pH by 9045C					100		95-105		
Batch number: 11007182101A	Sample number(s): 6178512-6178520								
Oxidation Reduction Potential					100		98-102		
Batch number: 11007182101B	Sample number(s): 6178521-6178522								
Oxidation Reduction Potential					100		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11012162401B	Sample number(s): 6178512-6178517,6178520-6178522								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11019162401A	Sample number(s): 6178518-6178519								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110071AA	Sample number(s): 6178513-6178514,6178516-6178521 UNSPK: P179369								
Acetone	123	107	15-210	14	30				
Benzene	92	90	55-143	3	30				
Bromobenzene	74	72	43-139	3	30				
Bromochloromethane	93	90	60-137	3	30				
Bromodichloromethane	88	85	53-136	3	30				
Bromoform	89	83	38-124	7	30				
Bromomethane	69	65	42-168	5	30				
2-Butanone	94	89	37-163	6	30				
n-Butylbenzene	55	50	30-146	9	30				
sec-Butylbenzene	57	53	33-157	7	30				
tert-Butylbenzene	60	56	41-152	6	30				
Carbon Tetrachloride	95	91	45-153	5	30				
Chlorobenzene	80	76	49-135	6	30				
Chloroethane	72	70	39-152	3	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	1	30				
Chloroform	95	92	61-142	4	30				
Chloromethane	77	75	51-163	3	30				
2-Chlorotoluene	68	63	42-146	7	30				
4-Chlorotoluene	67	63	39-145	6	30				
Chlorotrifluoroethene	135*	137*	70-130	13	30				
1,2-Dibromo-3-chloropropane	75	71	30-139	6	30				
Dibromochloromethane	90	85	51-128	5	30				
1,2-Dibromoethane	87	84	54-129	5	30				
Dibromomethane	92	88	57-130	4	30				
1,2-Dichlorobenzene	76	72	36-133	6	30				
1,3-Dichlorobenzene	69	65	34-134	6	30				
1,4-Dichlorobenzene	71	67	35-136	6	30				
Dichlorodifluoromethane	72	68	26-151	7	30				
1,1-Dichloroethane	96	93	63-142	3	30				
1,2-Dichloroethane	93	89	68-131	4	30				
1,1-Dichloroethene	101	95	61-149	6	30				
cis-1,2-Dichloroethene	95	91	60-136	5	30				
trans-1,2-Dichloroethene	96	94	59-142	3	30				
1,2-Dichloropropane	90	88	62-135	3	30				
1,3-Dichloropropane	87	83	58-129	4	30				
2,2-Dichloropropane	95	92	53-147	4	30				
1,1-Dichloropropene	87	84	54-145	3	30				
cis-1,3-Dichloropropene	76	76	51-131	0	30				
trans-1,3-Dichloropropene	77	76	49-129	1	30				

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Reported: 02/07/11 at 10:19 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	71	67	44-141	7	30				
Freon 113	105	98	56-156	6	30				
Freon 133a	87	90	70-130	11	30				
Hexachlorobutadiene	50	45	10-155	11	30				
2-Hexanone	60	58	32-160	4	30				
Isopropylbenzene	64	59	38-144	8	30				
p-Isopropyltoluene	58	53	29-152	9	30				
Methyl Tertiary Butyl Ether	89	86	55-129	3	30				
4-Methyl-2-pentanone	61	61	46-139	1	30				
Methylene Chloride	90	86	61-141	4	30				
n-Propylbenzene	64	60	39-157	6	30				
Styrene	76	71	35-134	7	30				
1,1,1,2-Tetrachloroethane	88	82	52-130	7	30				
1,1,2,2-Tetrachloroethane	81	78	40-152	4	30				
Tetrachloroethene	79	75	42-149	5	30				
Toluene	83	80	50-146	4	30				
1,2,3-Trichlorobenzene	70	63	10-140	10	30				
1,2,4-Trichlorobenzene	59	55	10-136	8	30				
1,1,1-Trichloroethane	95	94	64-142	1	30				
1,1,2-Trichloroethane	91	87	54-139	4	30				
Trichloroethene	85	82	53-144	3	30				
Trichlorofluoromethane	86	81	47-163	6	30				
1,2,3-Trichloropropane	83	81	45-154	3	30				
1,2,4-Trimethylbenzene	66	60	37-149	8	30				
1,3,5-Trimethylbenzene	64	59	38-150	8	30				
Vinyl Chloride	78	75	50-154	4	30				
m+p-Xylene	74	68	44-137	8	30				
o-Xylene	69	64	42-137	8	30				
Batch number: E110071AA	Sample number(s): 6178513-6178514,6178516-6178521 UNSPK: P179369								
1,4-Dioxane	126	112	70-130	20	30				
Batch number: 11006SLA026	Sample number(s): 6178512-6178522 UNSPK: P177806								
Aniline	55	47	14-114	15	30				
Benzidine	35	27*	35-141	27	30				
Benzoic acid	73	74	10-173	1	30				
Benzyl alcohol	80	83	55-123	4	30				
4-Bromophenyl-phenylether	88	92	67-129	4	30				
Butylbenzylphthalate	94	95	73-134	1	30				
Di-n-butylphthalate	88	91	67-123	4	30				
Carbazole	86	90	64-120	5	30				
4-Chloro-3-methylphenol	86	89	53-130	4	30				
4-Chloroaniline	53	44	23-95	18	30				
bis(2-Chloroethoxy)methane	90	93	54-117	3	30				
bis(2-Chloroethyl)ether	80	82	60-116	3	30				
bis(2-Chloroisopropyl)ether	81	81	55-142	1	30				
2-Chloronaphthalene	78	81	50-141	4	30				
2-Chlorophenol	86	91	73-121	5	30				
4-Chlorophenyl-phenylether	91	94	64-119	3	30				
Dibenzofuran	89	93	71-112	4	30				
1,2-Dichlorobenzene	82	84	66-108	2	30				
1,3-Dichlorobenzene	78	81	63-109	4	30				
1,4-Dichlorobenzene	79	82	53-113	4	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,3'-Dichlorobenzidine	60	54	25-123	9	30				
2,4-Dichlorophenol	90	92	78-117	3	30				
Diethylphthalate	89	92	66-118	3	30				
2,4-Dimethylphenol	89	94	56-130	5	30				
3,5-Dimethylphenol	98	102	70-130	4	30				
Dimethylphthalate	90	92	64-118	3	30				
4,6-Dinitro-2-methylphenol	71	71	10-148	0	30				
2,4-Dinitrophenol	59	58	20-143	2	30				
2,4-Dinitrotoluene	90	97	57-114	7	30				
2,6-Dinitrotoluene	93	94	69-123	2	30				
1,2-Diphenylhydrazine	96	100	71-129	3	30				
bis(2-Ethylhexyl)phthalate	91	94	63-122	3	30				
Hexachlorobenzene	92	95	61-111	4	30				
Hexachlorobutadiene	91	95	62-120	3	30				
Hexachlorocyclopentadiene	82	85	10-153	3	30				
Hexachloroethane	83	85	57-109	2	30				
Isophorone	86	89	51-118	3	30				
2-Methylphenol	87	90	47-142	3	30				
4-Methylphenol	82	86	55-126	4	30				
2-Nitroaniline	95	100	67-125	5	30				
3-Nitroaniline	88	90	59-122	3	30				
4-Nitroaniline	66	64	52-112	4	30				
Nitrobenzene	91	94	51-114	3	30				
2-Nitrophenol	90	90	74-115	1	30				
4-Nitrophenol	88	93	39-133	6	30				
N-Nitroso-di-n-propylamine	79	85	60-116	7	30				
N-Nitrosodiphenylamine	89	93	86-145	5	30				
Di-n-octylphthalate	83	84	56-126	1	30				
Pentachlorophenol	63	69	17-149	9	30				
Phenol	84	92	58-126	8	30				
1,2,4-Trichlorobenzene	89	91	72-115	2	30				
2,4,5-Trichlorophenol	93	97	34-139	4	30				
2,4,6-Trichlorophenol	95	101	49-140	6	30				
Batch number: 11006SLC026	Sample number(s): 6178512-6178522 UNSPK: P177801								
Acenaphthene	107*	96	63-105	11	30				
Acenaphthylene	108	96	55-126	11	30				
Anthracene	91	101	46-136	10	30				
Benzo(a)anthracene	89	90	39-144	0	30				
Benzo(a)pyrene	104	105	34-156	1	30				
Benzo(b)fluoranthene	133	124	43-155	5	30				
Benzo(g,h,i)perylene	54	60	33-141	9	30				
Benzo(k)fluoranthene	120	118	42-144	1	30				
Butylbenzylphthalate	127	110	73-140	14	30				
Di-n-butylphthalate	127	129	78-160	1	30				
Chrysene	86	87	29-156	1	30				
Dibenz(a,h)anthracene	90	86	41-130	4	30				
Diethylphthalate	116	113	87-131	3	30				
Dimethylphthalate	119*	106	74-118	11	30				
Bis(2-Ethylhexyl)phthalate	4*	11*	39-167	5	30				
Fluoranthene	89	99	26-166	9	30				
Fluorene	102	96	45-121	6	30				
Indeno(1,2,3-cd)pyrene	82	78	21-143	5	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1-Methylnaphthalene	93	96	72-123	4	30				
2-Methylnaphthalene	88	92	28-121	4	30				
Naphthalene	96	87	61-102	10	30				
N-Nitrosodimethylamine	107	107	48-113	0	30				
Di-n-octylphthalate	149	155	40-192	4	30				
Phenanthrene	97	98	12-165	1	30				
Pyrene	77	82	15-153	4	30				
Batch number: 11011SLB026	Sample number(s): 6178518-6178519 UNSPK: P179368								
N-Nitrosodimethylamine	86	90	70-130	4	30				
Batch number: 110110003A	Sample number(s): 6178518-6178519 UNSPK: 6178518								
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	107	104	80-137	3	50				
1,3-Dinitrobenzene	107	104	38-166	3	50				
2,4-Dinitrotoluene	103	101	80-131	2	50				
2,6-Dinitrotoluene	107	105	80-127	2	50				
HMX	94	95	63-128	0	50				
Nitrobenzene	104	101	80-125	3	50				
Nitroglycerin	94	92	80-120	2	50				
2-Nitrotoluene	106	102	80-122	3	50				
3-Nitrotoluene	106	102	72-119	3	50				
4-Nitrotoluene	104	101	80-125	3	50				
PETN	111	109	80-121	1	50				
RDX	105	104	75-129	1	50				
Tetryl	112	109	55-174	2	50				
1,3,5-Trinitrobenzene	113	110	82-126	2	50				
2,4,6-Trinitrotoluene	106	103	82-130	3	50				
Batch number: 110100020A	Sample number(s): 6178518-6178519 UNSPK: P177800								
17a Formaldehyde by 8315A	98	102	80-120	4	50				
Batch number: 110060007A	Sample number(s): 6178512,6178522 UNSPK: P177801								
2,4-D	102	111	28-161	8	35				
Dalapon	32	81	12-86	87*	50				
2,4-DB	72	73	20-170	1	50				
Dicamba	70	71	33-120	2	50				
Dinoseb	17	15	1-44	12	35				
2,4-DP (Dichlorprop)	99	101	55-141	2	50				
MCPA	92	103	31-184	12	50				
MCPP (Mecoprop)	79	78	16-174	1	50				
2,4,5-T	88	86	25-132	3	35				
2,4,5-TP	78	80	10-183	2	35				
Batch number: 110200023A	Sample number(s): 6178521 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110080006A	Sample number(s): 6178512-6178522 UNSPK: P172316								
PCB-1016	89	91	29-146	2	50				
PCB-1260	116	114	39-149	1	50				
Batch number: 110170031A	Sample number(s): 6178512,6178522 UNSPK: 6178512								
Aldrin	100	100	16-126	0	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Alpha BHC	70	70	10-129	0	50				
Beta BHC	75	81	14-147	8	50				
Gamma BHC - Lindane	73	73	10-140	0	50				
p,p-DDD	70	76	16-163	8	50				
p,p-DDE	88	129	18-161	28	50				
p,p-DDT	63	66	10-176	4	50				
Delta BHC	75	78	23-140	4	50				
Dieldrin	65	65	19-154	0	50				
Endosulfan I	45	48	16-137	6	50				
Endosulfan II	82	80	28-154	2	50				
Endosulfan Sulfate	97	97	21-160	0	50				
Endrin	65	65	11-149	0	50				
Endrin Aldehyde	64	67	10-148	5	35				
Endrin Ketone	95	114	22-165	17	50				
Heptachlor	73	73	13-126	0	50				
Heptachlor Epoxide	91	94	13-157	3	50				
Methoxychlor	79	81	32-147	3	50				
Batch number: 110130009A	Sample number(s): 6178518-6178519 UNSPK: P179375								
EFH (C12-C14)	83	79	49-123	6	20				
EFH (C15-C20)	98	92	49-123	6	20				
EFH (C21-C30)	101	100	49-123	1	20				
EFH (C30 - C40)	92	91	49-123	1	20				
EFH (C8-C11)	57	56	49-123	2	20				
Batch number: 110060008A	Sample number(s): 6178518-6178519 UNSPK: P177800								
Ethanol	119	118	24-143	1	20				
Isopropanol	105	106	75-125	0	20				
Methanol	116	114	45-136	2	20				
Batch number: 110180028A	Sample number(s): 6178518-6178519 UNSPK: 6178519								
Diethylene glycol	102	96	59-109	7	20				
Ethylene glycol	100	93	63-107	8	20				
Propylene glycol	99	90	63-107	9	20				
Batch number: 110100011A	Sample number(s): 6178518-6178519 UNSPK: 6178518								
m-Terphenyl	105	105	75-125	0	20				
o-Terphenyl	109	109	75-125	0	20				
p-Terphenyl	102	104	75-125	1	20				
Batch number: 110061026001A	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Antimony	41*	44*	75-125	6	20	0.244	0.0986 J	85* (1)	20
Arsenic	24*	169*	75-125	42*	20	5.00	4.13	19	20
Beryllium	82	89	75-125	6	20	0.629	0.480	27* (1)	20
Cadmium	105	103	75-125	1	20	0.132	0.0833 J	45* (1)	20
Chromium	98	108	75-125	5	20	16.4	15.0	9	20
Cobalt	88	98	75-125	12	20	5.12	5.32	4	20
Copper	87	92	75-125	4	20	7.43	7.35	1	20
Lead	68*	84	75-125	6	20	5.85	4.32	30*	20
Nickel	95	114	75-125	11	20	9.31	8.69	7	20
Silver	111	110	75-125	1	20	0.0301 J	0.0300 J	1 (1)	20
Thallium	115	105	75-125	4	20	0.239	0.216	10 (1)	20
Vanadium	76 (2)	52 (2)	75-125	4	20	42.5	34.2	22*	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Zinc	94 (2)	101 (2)	75-125	2	20	40.9	38.5	6	20
Batch number: 110061026001B	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Selenium	92	102	75-125	12	20	0.152 J	0.112 J	30* (1)	20
Batch number: 110061026001C	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Molybdenum	104	99	75-125	1	20	0.657	0.409	46* (1)	20
Batch number: 110061026001D	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Barium	94 (2)	54 (2)	75-125	3	20	102	92.2	10	20
Batch number: 110065708002	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Aluminum	225 (2)	1269 (2)	75-125	12	20	15,300	15,500	1	20
Boron	99	99	84-115	1	20	0.873 U	0.873 U	0 (1)	20
Calcium	221 (2)	181 (2)	75-125	6	20	1,970	2,190	11	20
Iron	473 (2)	989 (2)	75-125	3	20	16,300	16,900	4	20
Lithium	101	102	82-114	0	20	15.9	16.9	6	20
Magnesium	284 (2)	199 (2)	75-125	4	20	3,460	3,720	7	20
Manganese	187 (2)	889 (2)	75-125	65*	20	260	276	6	20
Phosphorus	160*	104	75-125	15	20	238	252	6	20
Potassium	150*	150*	75-125	0	20	2,220	2,450	10	20
Sodium	105	101	75-125	4	20	109	117	6 (1)	20
Strontium	99	101	75-115	0	20	18.1	18.2	0	20
Tin	93	93	80-110	1	20	2.09 J	2.13 J	2 (1)	20
Titanium	226 (2)	225 (2)	75-125	0	20	1,180	1,200	2	20
Zirconium	98	98	75-125	1	20	1.95 J	2.44 J	23* (1)	20
Batch number: 110065711001	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Mercury	99	99	65-135	0	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11014102201A	Sample number(s): 6178518-6178519 UNSPK: P177800 BKG: P177800								
21a Cyanide by 9012B	96		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11017017201A	Sample number(s): 6178512 UNSPK: P173166 BKG: P173166								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11017017201B	Sample number(s): 6178513-6178522 UNSPK: 6178513 BKG: 6178513								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11017017202A	Sample number(s): 6178512 UNSPK: P177800 BKG: P177800								
11a Anions by 300.0 - Fluoride	74*		80-120			2.6	3.6	30* (1)	20
Batch number: 11017017202B	Sample number(s): 6178513-6178522 UNSPK: 6178513 BKG: 6178513								
11a Anions by 300.0 - Fluoride	93		80-120			1.7	1.9	8 (1)	20
11a Anions by 300.0 - Nitrate	76*		80-120			2.7	1.8	39* (1)	20
Batch number: 11018243201A	Sample number(s): 6178512-6178522 UNSPK: 6178522 BKG: 6178522								
3a Cr VI by EPA 7199	96		75-125			0.36 J	0.52 J	36* (1)	20
Batch number: 11019621701A	Sample number(s): 6178511 UNSPK: P177278 BKG: P177278								
7b Perchlorate EPA 314.0	96		80-120			0.70 U	0.70 U	0 (1)	15

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11007039401A	Sample number(s): 6178512-6178520					BKG: 6178520			
22a pH by 9045C						7.65	7.65	0	1
Batch number: 11007039401B	Sample number(s): 6178521-6178522					BKG: 6178522			
22a pH by 9045C						7.19	7.19	0	1
Batch number: 11007182101A	Sample number(s): 6178512-6178520					BKG: 6178520			
Oxidation Reduction Potential						516	515	0	6
Batch number: 11007182101B	Sample number(s): 6178521-6178522					BKG: 6178522			
Oxidation Reduction Potential						433	433	0	6
Batch number: 11012162401B	Sample number(s): 6178512-6178517,6178520-6178522					BKG: P179369			
28a Moisture Content by 160.3						9.2	9.0	1	20
Batch number: 11019162401A	Sample number(s): 6178518-6178519					BKG: P183549			
28a Moisture Content by 160.3						13.8	13.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6178513	109	108	95	90
6178514	105	106	95	87
6178516	111	110	94	87
6178517	110	112	94	88
6178518	110	106	95	88
6178519	107	107	95	88
6178520	111	111	94	88
6178521	112	114	95	88
Blank	108	105	95	89
LCS	102	104	101	101
MS	105	105	102	101
MSD	103	103	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110071AA

	Toluene-d8
6178513	99
6178514	100
6178516	101
6178517	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Surrogate Quality Control

6178518	99
6178519	99
6178520	101
6178521	100
Blank	102
LCS	102
LCSD	101
MS	99
MSD	98
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110101AA

	Toluene-d8
6178523	101
Blank	101
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6178523	103	100	99	100
Blank	104	101	99	100
LCS	103	105	100	101
LCSD	104	104	100	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11006SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6178512	91	88	95	73	81	86
6178513	88	86	91	76	82	80
6178514	90	88	92	77	85	85
6178515	90	89	91	77	85	86
6178516	92	93	91	80	88	82
6178517	87	85	85	76	83	79
6178518	88	88	92	77	86	108
6178519	90	89	82	76	84	89
6178520	89	89	73	73	81	85
6178521	90	90	86	78	87	83
6178522	85	84	79	72	81	81
Blank	85	86	105	80	93	90
LCS	90	90	108	90	95	89
MS	84	84	99	84	88	85
MSD	88	88	103	86	90	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Surrogate Quality Control

Batch number: 11006SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6178512	96	90	81
6178513	102	89	93
6178514	95	95	93
6178515	94	89	89
6178516	91	87	90
6178517	77	69	79
6178518	90	85	89
6178519	92	84	90
6178520	101	87	94
6178521	93	88	89
6178522	89	90	80
Blank	78	80	87
LCS	97	106	95
MS	100	98	90
MSD	99	90	84
Limits:	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11008WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6178511	89	90	85
Blank	88	79	84
LCS	104	94	95
LCSD	105	92	92
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11010WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6178511	47	30	90	87	88	83
Blank	51	33	96	88	89	83
LCS	62	41	96	92	93	84
LCSD	61	40	95	92	93	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11011SLB026

	N-Nitrosodimethylamine-d6
6178518	128
6178519	112
Blank	131
LCS	112
MS	139
MSD	102
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11007A20A

	Trifluorotoluene-F
6178523	96
Blank	96
LCS	119
LCSD	122
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11010A34A

	Trifluorotoluene-F
6178518	79
6178519	84
Blank	86
LCS	91
LCSD	96
Limits:	61-122

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110060007A

	2,4-Dichlorophenylacetic acid
6178512	127
6178522	129
Blank	83
LCS	97
MS	85
MSD	87
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110080006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6178512	98	89
6178513	103	100
6178514	94	105
6178515	88	103
6178516	85	116
6178517	92	103
6178518	102	119
6178519	85	108
6178520	88	109
6178521	84	109
6178522	77	71
Blank	88	108
LCS	90	112
LCSD	88	111
MS	91	110
MSD	92	109

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Surrogate Quality Control

Limits:	53-139	45-120

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110100018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6178511	94	86
Blank	109	81
LCS	108	91
LCSD	95	86
Limits:	30-150	45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110100020A

	Butyraldehyde
6178518	84
6178519	90
Blank	99
LCS	103
MS	102
MSD	103
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110110003A

	2-Nitro-m-xylene
6178518	116
6178519	121
Blank	119
LCS	121
LCSD	120
MS	118
MSD	114
Limits:	80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 110170031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6178512	100	84
6178522	74	156*
Blank	91	105
LCS	92	106
MS	83	74
MSD	91	82
Limits:	50-130	20-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 110060008A

	Acetone

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228000
Reported: 02/07/11 at 10:19 AM

Surrogate Quality Control

6178518	95
6178519	93
Blank	106
LCS	102
MS	112
MSD	114
Limits:	42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110100011A

	n-Triacontane-d62
6178518	95
6178519	102
Blank	130
LCS	104
MS	101
MSD	100
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110130009A

	Chlorobenzene	Orthoterphenyl
6178518	83	82
6178519	92	89
Blank	86	82
LCS	85	84
MS	88	87
MSD	86	85
Limits:	37-125	47-145

Analysis Name: 27a Glycols by 8015B
Batch number: 110180028A

	Tetramethylene glycol
6178518	99
6178519	103
Blank	98
LCS	104
MS	110
MSD	99
Limits:	29-137

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1228000 6178511-23

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	8VOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	*VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Energetics EPA 8095	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB17-SA5C-010511	01.05.1	1230	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																				SB HAND AUGER TOOL RINSATE
EB17-SA5C-010511	01.05.1	1230	WATER	NONE	1 - 500 mL POLY		X				X	X																		SB HAND AUGER TOOL RINSATE
EB17-SA5C-010511	01.05.1	1230	WATER	HNO3	1 - 500 mL POLY	X																								SB HAND AUGER TOOL RINSATE
SL-027-SA5B-SS-0.0-0.5	01.05.1	1539	SOIL	NONE	1-16 oz. jar & 1-6" sleeve	X	X	X	X	X	X	X		X	X															
SL-038-SA5C-SB-4.0-5.0	01.05.1	0945	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																		
SL-038-SA5C-SB-4.5	01.05.1	0940	SOIL	NONE	4 ENCORES											X	X													
SL-065-SA5B-SB-4.0-5.0	01.05.1	1010	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																		
SL-065-SA5B-SB-4.5	01.05.1	1006	SOIL	NONE	4 ENCORES											X	X													
SL-065-SA5B-SB-9.0-10.0	01.05.1	1014	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																		
SL-067-SA5B-SB-3.5-4.5	01.05.1	1426	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																		
SL-067-SA5B-SB-4.0	01.05.1	1423	SOIL	NONE	4 ENCORES											X	X													
SL-068-SA5B-SB-3.0-4.0	01.05.1	1325	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																		
SL-068-SA5B-SB-3.5	01.05.1	1320	SOIL	NONE	4 ENCORES											X	X													
SL-069-SA5B-SB-3.0-4.0	01.05.1	1540	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	
SL-069-SA5B-SB-3.5	01.05.1	1536	SOIL	NONE	5 ENCORES											X	X	X												
SL-070-SA5B-SB-3.0	01.05.1	1118	SOIL	NONE	5 ENCORES											X	X	X												
SL-070-SA5B-SB-2.5-3.5	01.05.1	1124	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	
SL-124-SA5C-SB-4.5-5.5	01.05.1	1436	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																		
SL-124-SA5C-SB-5.0	01.05.1	1430	SOIL	NONE	4 ENCORES											X	X													
SL-137-SA5C-SB-4.5-5.5	01.05.1	1144	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X																	
SL-137-SA5C-SB-5.0	01.05.1	1140	SOIL	NONE	4 ENCORES											X	X													
SL-296-SA5B-SS-0.0-0.5	01.05.1	1559	SOIL	NONE	1-16 oz. jar & 1-6" sleeve	X	X	X	X	X	X	X		X	X															
TB-010511	01.05.1	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X												TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	1/5/2011		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	1616	8495 1432 0050, ...0049, ...0038	No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/07/2011
Group Number: 1228203
SDG: DE054
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
EB18-SA5B-010611 Water	6179366
SL-137-SA5B-SS-0.0-0.5 Soil	6179367
SL-063-SA5B-SB-3.0-4.0 Soil	6179368
SL-066-SA5B-SB-3.0-4.0 Soil	6179369
SL-066-SA5B-SB-3.0-4.0MS Soil	6179370
SL-066-SA5B-SB-3.0-4.0MSD Soil	6179371
SL-066-SA5B-SB-3.0-4.0DUP Soil	6179372
DUP16-SA5B-QC-010611 Soil	6179373
SL-058-SA5B-SB-4.0-5.0 Soil	6179374
SL-051-SA5B-SB-3.0-4.0 Soil	6179375
SL-050-SA5B-SB-3.0-4.0 Soil	6179376
TB-010611 Water	6179377

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: EB18-SA5B-010611 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179366
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-18 SDG#: DE054-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB18-SA5B-010611 Water**
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179366
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-18 SDG#: DE054-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.63	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.21	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.24	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.030	J	0.010	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.069	J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1

The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .088 ug/l
bis(2-ethylhexyl)phthalate .12 ug/l
di-n-octylphthalate .059 ug/l
These blank values were not subtracted from the analytical results.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.12	U	0.12	0.58		1
10227	Aroclor 5442	12642-23-8	0.12	U	0.12	0.58		1
10227	Aroclor 5460	11126-42-4	0.12	U	0.12	0.58		1
10227	PCB-1016	12674-11-2	0.12	U	0.12	0.58		1
10227	PCB-1221	11104-28-2	0.12	U	0.12	0.58		1
10227	PCB-1232	11141-16-5	0.23	U	0.23	0.58		1
10227	PCB-1242	53469-21-9	0.12	U	0.12	0.58		1
10227	PCB-1248	12672-29-6	0.12	U	0.12	0.58		1

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Sample Description: **EB18-SA5B-010611 Water**
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179366
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-18 SDG#: DE054-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1254	11097-69-1	0.12	U	0.12	0.58		1
10227	PCB-1260	11096-82-5	0.12	U	0.12	0.58		1
10227	PCB-1262	37324-23-5	0.23	U	0.23	0.58		1
10227	PCB-1268	11100-14-4	0.18	U	0.18	0.58		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038	U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000059	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	

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Lancaster Laboratories

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Analysis Report

Sample Description: EB18-SA5B-010611 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179366
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-18 SDG#: DE054-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11010WAC026	01/20/2011	14:32	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11008WAB026	01/15/2011	15:58	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	11010WAC026	01/10/2011	21:40	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11008WAB026	01/09/2011	15:45	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110100018A	01/14/2011	08:49	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110100018A	01/11/2011	03:30	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	110101848002	01/13/2011	07:46	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	110106050002A	01/13/2011	16:14	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110106050002A	01/13/2011	16:14	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110106050002D	01/13/2011	16:14	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110106050002A	01/13/2011	16:14	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110106050002A	01/13/2011	16:14	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110106050002A	01/13/2011	16:14	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110106050002A	01/13/2011	16:14	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110106050002A	01/13/2011	16:14	Choon Y Tian	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB18-SA5B-010611 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179366
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-18 SDG#: DE054-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	110106050002A	01/13/2011 16:14	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110106050002C	01/13/2011 16:14	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110106050002A	01/13/2011 16:14	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110106050002B	01/13/2011 16:14	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110106050002A	01/13/2011 16:14	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110106050002A	01/13/2011 16:14	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	110106050002A	01/13/2011 16:14	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110106050002A	01/13/2011 16:14	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110105713005	01/11/2011 07:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110101848002	01/11/2011 08:33	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110106050002	01/11/2011 08:30	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110105713005	01/10/2011 15:45	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11008196904A	01/08/2011 15:28	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11019621701A	01/19/2011 14:29	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11007196401A	01/07/2011 11:31	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179367
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL137 SDG#: DE054-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-137-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179367
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL137 SDG#: DE054-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.9		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	5.0		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	9.5		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.5		0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.97	J	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8		0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.96	J	0.74	1.8		1
10138	Pyrene	129-00-0	1.9		0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	3.1		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	180	U	180	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not

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Sample Description: SL-137-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179367
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL137 SDG#: DE054-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attained.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.19	U	0.19	0.37		1
01363	p,p-DDT	50-29-3	0.49	U	0.49	0.49		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.10	U	0.10	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.23	U	0.23	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.75	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.33	21.2		1
07914	Boron	7440-42-8	4.05	J	0.944	5.30		1
01650	Calcium	7440-70-2	2,760		6.50	21.2		1
01654	Iron	7439-89-6	17,300		4.99	21.2		1

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Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179367
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL137 SDG#: DE054-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	20.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,720		2.69	10.6		1
06958	Manganese	7439-96-5	251		0.0827	0.530		1
10145	Phosphorus	7723-14-0	343		0.594	10.6		1
01662	Potassium	7440-09-7	3,010		19.1	53.0		1
01667	Sodium	7440-23-5	318		39.5	106		1
07968	Strontium	7440-24-6	21.8		0.0657	0.530		1
06969	Tin	7440-31-5	2.25	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,020		0.403	1.06		1
10146	Zirconium	7440-67-7	1.62	J	0.891	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0756	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.85		0.0655	0.437		2
06126	Barium	7440-39-3	107		0.118	0.437		2
06127	Beryllium	7440-41-7	0.561		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.165		0.0393	0.109		2
06131	Chromium	7440-47-3	16.5		0.131	0.437		2
06132	Cobalt	7440-48-4	5.03		0.0218	0.109		2
06133	Copper	7440-50-8	11.2		0.0720	0.437		2
06135	Lead	7439-92-1	5.92		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.606		0.0546	0.109		2
06139	Nickel	7440-02-0	10.1		0.109	0.437		2
06141	Selenium	7782-49-2	0.144	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0301	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.249		0.0327	0.109		2
06148	Vanadium	7440-62-2	33.9		0.0240	0.109		2
06149	Zinc	7440-66-6	60.1		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	409		10.0	10.0		1

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Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179367
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL137 SDG#: DE054-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	4.98	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011	10:47	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011	07:54	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011	21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011	21:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110100013A	01/12/2011	18:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110170031A	02/03/2011	07:27	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/14/2011	22:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110170031A	01/18/2011	08:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011	16:50	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110100013A	01/11/2011	21:15	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011	14:04	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011	14:04	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011	14:04	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/13/2011	14:04	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011	14:04	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011	14:04	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011	14:04	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011	14:04	Joanne M Gates	1

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Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179367
LLI Group # 1228203
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL137 SDG#: DE054-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 14:04	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 14:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 14:04	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 14:04	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 14:04	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 14:04	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 12:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 07:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 04:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 00:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 15:07	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-063-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.01
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.01
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.01
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1.01
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.01
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		1.01
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.01
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1.01
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.01
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.01
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.01
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.01
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1.01
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.01
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.01
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.01
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		1.01
06192	Methylene Chloride	75-09-2	0.33	J	0.26	4.4		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.01

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Sample Description: SL-063-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		1.01
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1.01
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.5	J	18.1	36.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1

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Sample Description: SL-063-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1

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Sample Description: SL-063-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: SL-063-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		10
10199	EFH (C21-C30)	n.a.	260		4.3	13		10
10199	EFH (C30 - C40)	n.a.	400		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
	The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.34	21.2		1
07914	Boron	7440-42-8	1.27	J	0.945	5.31		1
01650	Calcium	7440-70-2	3,210		6.51	21.2		1
01654	Iron	7439-89-6	23,500		5.00	21.2		1
01656	Lithium	7439-93-2	20.4		0.23	2.1		1
01657	Magnesium	7439-95-4	4,540		2.70	10.6		1
06958	Manganese	7439-96-5	264		0.0829	0.531		1
10145	Phosphorus	7723-14-0	566		0.595	10.6		1
01662	Potassium	7440-09-7	2,680		19.1	53.1		1
01667	Sodium	7440-23-5	123		39.6	106		1
07968	Strontium	7440-24-6	19.5		0.0659	0.531		1
06969	Tin	7440-31-5	2.82	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,330		0.404	1.06		1
10146	Zirconium	7440-67-7	2.26	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.90		0.0644	0.429		2
06126	Barium	7440-39-3	166		0.116	0.429		2
06127	Beryllium	7440-41-7	1.00		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.110		0.0386	0.107		2
06131	Chromium	7440-47-3	29.5		0.129	0.429		2
06132	Cobalt	7440-48-4	5.52		0.0215	0.107		2
06133	Copper	7440-50-8	10.4		0.0708	0.429		2
06135	Lead	7439-92-1	8.67		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.862		0.0536	0.107		2
06139	Nickel	7440-02-0	14.3		0.107	0.429		2
06141	Selenium	7782-49-2	0.276	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0330	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.374		0.0322	0.107		2
06148	Vanadium	7440-62-2	56.4		0.0236	0.107		2
06149	Zinc	7440-66-6	72.3		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0039	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.7		0.87	1.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-063-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	444		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-063-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 19:44	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 22:19	Sara E Johnson	22.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:13	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.

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Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:13	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011 07:43	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 11:21	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 08:26	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011 10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 15:20	Marie D John	23.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:12	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 08:38	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 18:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/14/2011 22:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110130009A	01/17/2011 21:21	Heather E Williams	10
10501	25a Alcohols by 8015B	SW-846 8015B	1	110120021A	01/12/2011 19:47	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 22:34	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110100011A	01/14/2011 12:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110130009A	01/13/2011 14:10	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	110100011A	01/10/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110120021A	01/12/2011 15:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 13:40	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179368
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 12:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 12:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 12:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 12:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 07:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 04:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11020020203A	01/21/2011 04:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 01:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 15:26	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011 19:00	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011 09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179369
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.01
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.01
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.01
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.01
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.01
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.01
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.4		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.01
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.01
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.01
06192	Methylene Chloride	75-09-2	0.75	J	0.27	4.4		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.01

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Sample Description: SL-066-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179369
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.01
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		26.15
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-066-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179369
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.88	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

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Sample Description: SL-066-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179369
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.48	21.8		1
07914	Boron	7440-42-8	2.91	J	0.970	5.45		1
01650	Calcium	7440-70-2	2,740		6.68	21.8		1
01654	Iron	7439-89-6	21,800		5.14	21.8		1
01656	Lithium	7439-93-2	23.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,750		2.77	10.9		1
06958	Manganese	7439-96-5	319		0.0851	0.545		1
10145	Phosphorus	7723-14-0	436		0.611	10.9		1
01662	Potassium	7440-09-7	2,890		19.6	54.5		1
01667	Sodium	7440-23-5	323		40.7	109		1
07968	Strontium	7440-24-6	17.3		0.0676	0.545		1
06969	Tin	7440-31-5	2.65	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,220		0.414	1.09		1
10146	Zirconium	7440-67-7	2.15	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.22		0.0635	0.424		2
06126	Barium	7440-39-3	92.4		0.114	0.424		2
06127	Beryllium	7440-41-7	0.546		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.114		0.0381	0.106		2
06131	Chromium	7440-47-3	27.2		0.127	0.424		2
06132	Cobalt	7440-48-4	5.71		0.0212	0.106		2
06133	Copper	7440-50-8	9.16		0.0699	0.424		2

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Sample Description: SL-066-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179369
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04BKG

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	5.26		0.0110	0.212		2
06138	Molybdenum		7439-98-7	0.467		0.0529	0.106		2
06139	Nickel		7440-02-0	11.3		0.106	0.424		2
06141	Selenium		7782-49-2	0.124	J	0.0424	0.424		2
06142	Silver		7440-22-4	0.0202	J	0.0127	0.106		2
06145	Thallium		7440-28-0	0.256		0.0318	0.106		2
06148	Vanadium		7440-62-2	38.1		0.0233	0.106		2
06149	Zinc		7440-66-6	62.2		0.593	3.18		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.5		0.88	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.9	U	9.9	33.0		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	489		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.14		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-066-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179369
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 20:06	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 23:38	Sara E Johnson	26.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:17	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 09:03	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/15/2011 16:30	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/14/2011 23:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 14:15	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 12:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2

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Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179369
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 08:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 03:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11018018201A	01/24/2011 16:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 15:32	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179370
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	200	7.2	8.6		0.98
06192	Benzene	71-43-2	20	0.11	4.3		0.98
06192	Bromobenzene	108-86-1	16	0.14	4.3		0.98
06192	Bromochloromethane	74-97-5	20	0.36	4.3		0.98
06192	Bromodichloromethane	75-27-4	19	0.09	4.3		0.98
06192	Bromoform	75-25-2	19	0.43	4.3		0.98
06192	Bromomethane	74-83-9	15	0.27	4.3		0.98
06192	2-Butanone	78-93-3	150	1.3	8.6		0.98
06192	n-Butylbenzene	104-51-8	12	0.13	4.3		0.98
06192	sec-Butylbenzene	135-98-8	12	0.06	4.3		0.98
06192	tert-Butylbenzene	98-06-6	13	0.17	4.3		0.98
06192	Carbon Tetrachloride	56-23-5	21	0.15	4.3		0.98
06192	Chlorobenzene	108-90-7	17	0.12	4.3		0.98
06192	Chloroethane	75-00-3	16	0.14	4.3		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.32	4.3		0.98
06192	Chloroform	67-66-3	21	0.13	4.3		0.98
06192	Chloromethane	74-87-3	17	0.36	4.3		0.98
06192	2-Chlorotoluene	95-49-8	15	0.15	4.3		0.98
06192	4-Chlorotoluene	106-43-4	14	0.15	4.3		0.98
06192	Chlorotrifluoroethene	79-38-9	32	0.59	5.9		1.07
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.75	4.3		0.98
06192	Dibromochloromethane	124-48-1	19	0.22	4.3		0.98
06192	1,2-Dibromoethane	106-93-4	19	0.18	4.3		0.98
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.98
06192	1,2-Dichlorobenzene	95-50-1	16	0.1	4.3		0.98
06192	1,3-Dichlorobenzene	541-73-1	15	0.13	4.3		0.98
06192	1,4-Dichlorobenzene	106-46-7	15	0.17	4.3		0.98
06192	Dichlorodifluoromethane	75-71-8	16	0.13	4.3		0.98
06192	1,1-Dichloroethane	75-34-3	21	0.11	4.3		0.98
06192	1,2-Dichloroethane	107-06-2	20	0.16	4.3		0.98
06192	1,1-Dichloroethene	75-35-4	22	0.42	4.3		0.98
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.3		0.98
06192	trans-1,2-Dichloroethene	156-60-5	21	0.13	4.3		0.98
06192	1,2-Dichloropropane	78-87-5	19	0.18	4.3		0.98
06192	1,3-Dichloropropane	142-28-9	19	0.09	4.3		0.98
06192	2,2-Dichloropropane	594-20-7	21	0.18	4.3		0.98
06192	1,1-Dichloropropene	563-58-6	19	0.14	4.3		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	16	0.17	4.3		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.18	4.3		0.98
06192	Ethylbenzene	100-41-4	15	0.06	4.3		0.98
06192	Freon 113	76-13-1	23	0.12	4.3		0.98
06192	Freon 133a	75-88-7	21	0.59	5.9		1.07
06192	Hexachlorobutadiene	87-68-3	11	0.15	4.3		0.98
06192	2-Hexanone	591-78-6	65	1.7	8.6		0.98
06192	Isopropylbenzene	98-82-8	14	0.06	4.3		0.98
06192	p-Isopropyltoluene	99-87-6	12	0.12	4.3		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.23	4.3		0.98
06192	4-Methyl-2-pentanone	108-10-1	66	0.42	8.6		0.98
06192	Methylene Chloride	75-09-2	20	0.26	4.3		0.98
06192	n-Propylbenzene	103-65-1	14	0.07	4.3		0.98

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Sample Description: SL-066-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179370
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL063 SDG#: DE054-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	16		0.11	4.3		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.12	4.3		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	18		0.25	4.3		0.98
06192	Tetrachloroethene	127-18-4	17		0.22	4.3		0.98
06192	Toluene	108-88-3	18		0.09	4.3		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.15	4.3		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	13		0.19	4.3		0.98
06192	1,1,1-Trichloroethane	71-55-6	20		0.22	4.3		0.98
06192	1,1,2-Trichloroethane	79-00-5	20		0.29	4.3		0.98
06192	Trichloroethene	79-01-6	18		0.16	4.3		0.98
06192	Trichlorofluoromethane	75-69-4	18		0.31	4.3		0.98
06192	1,2,3-Trichloropropane	96-18-4	18		0.36	4.3		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	14		0.43	4.3		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	14		0.11	4.3		0.98
06192	Vinyl Chloride	75-01-4	17		0.22	4.3		0.98
06192	m+p-Xylene	179601-23-1	32		0.18	4.3		0.98
06192	o-Xylene	95-47-6	15		0.18	4.3		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	170		5.5	16		24.9
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	940		180	550		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180		1
04688	Benzoic acid	65-85-0	1,300		180	550		1
04688	Benzyl alcohol	100-51-6	1,800		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,700		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180		1
04688	Carbazole	86-74-8	1,800		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180		1
04688	4-Chloroaniline	106-47-8	940		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,500		18	180		1
04688	2-Chlorophenol	95-57-8	1,800		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180		1
04688	Chrysene	218-01-9	1,700		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180		1
04688	Dibenzofuran	132-64-9	1,800		18	180		1

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Sample Description: SL-066-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179370
LLI Group # 1228203
Account # 13013

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SL063 SDG#: DE054-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,800	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,800	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,800	18	180		1
04688	Diethylphthalate	84-66-2	1,800	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	180		1
04688	3,5-Dimethylphenol	108-68-9	2,100	37	180		1
04688	Dimethylphthalate	131-11-3	1,800	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,600	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	18	370		1
04688	Fluoranthene	206-44-0	1,800	18	180		1
04688	Fluorene	86-73-7	1,800	18	180		1
04688	Hexachlorobenzene	118-74-1	1,800	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,800	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,500	180	550		1
04688	Hexachloroethane	67-72-1	1,900	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	18	180		1
04688	Isophorone	78-59-1	1,800	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,800	37	180		1
04688	4-Methylphenol	106-44-5	1,800	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	1,900	18	180		1
04688	3-Nitroaniline	99-09-2	1,800	37	180		1
04688	4-Nitroaniline	100-01-6	1,300	73	180		1
04688	Nitrobenzene	98-95-3	1,900	18	180		1
04688	2-Nitrophenol	88-75-5	1,900	18	180		1
04688	4-Nitrophenol	100-02-7	1,900	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	18	180		1
04688	Pentachlorophenol	87-86-5	1,400	180	550		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,900	18	180		1
04688	Pyrene	129-00-0	1,800	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	37	180		1

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Sample Description: SL-066-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179370
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,900		37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35		0.73	1.8		1
10138	Acenaphthylene	208-96-8	35		0.37	1.8		1
10138	Anthracene	120-12-7	36		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	37		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	44		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	44		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	36		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	49		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	48		6.6	20		1
10138	Di-n-butylphthalate	84-74-2	43		6.6	20		1
10138	Chrysene	218-01-9	37		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	41		0.73	1.8		1
10138	Diethylphthalate	84-66-2	41		6.6	20		1
10138	Dimethylphthalate	131-11-3	40		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.6	20		1
10138	Fluoranthene	206-44-0	35		0.73	1.8		1
10138	Fluorene	86-73-7	37		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	40		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	36		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	35		0.73	1.8		1
10138	Naphthalene	91-20-3	35		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	40		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	48		6.6	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	36		0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	19		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,900		5.33	21.2		1
07914	Boron	7440-42-8	204		0.942	5.29		1
01650	Calcium	7440-70-2	2,930		6.49	21.2		1

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Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179370
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	25,000	4.99	21.2		1
01656	Lithium	7439-93-2	129	0.23	2.1		1
01657	Magnesium	7439-95-4	5,140	2.69	10.6		1
06958	Manganese	7439-96-5	301	0.0826	0.529		1
10145	Phosphorus	7723-14-0	386	0.593	10.6		1
01662	Potassium	7440-09-7	3,940	19.1	52.9		1
01667	Sodium	7440-23-5	1,180	39.5	106		1
07968	Strontium	7440-24-6	129	0.0657	0.529		1
06969	Tin	7440-31-5	393	1.06	10.6		1
06970	Titanium	7440-32-6	1,570	0.402	1.06		1
10146	Zirconium	7440-67-7	106	0.890	5.29		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.00	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.93	0.0642	0.428		2
06126	Barium	7440-39-3	161	0.115	0.428		2
06127	Beryllium	7440-41-7	1.75	0.0171	0.107		2
06128	Cadmium	7440-43-9	1.30	0.0385	0.107		2
06131	Chromium	7440-47-3	31.7	0.128	0.428		2
06132	Cobalt	7440-48-4	62.0	0.0214	0.107		2
06133	Copper	7440-50-8	18.6	0.0706	0.428		2
06135	Lead	7439-92-1	10.7	0.0111	0.214		2
06138	Molybdenum	7439-98-7	13.1	0.0535	0.107		2
06139	Nickel	7440-02-0	23.2	0.107	0.428		2
06141	Selenium	7782-49-2	2.47	0.0428	0.428		2
06142	Silver	7440-22-4	12.1	0.0128	0.107		2
06145	Thallium	7440-28-0	0.864	0.0321	0.107		2
06148	Vanadium	7440-62-2	54.3	0.0235	0.107		2
06149	Zinc	7440-66-6	79.5	0.599	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.183	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.3	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	614	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	40.9	1.1	5.5		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50		1

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Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179370
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-066-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 20:29	Chelsea B Eastep	0.98
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 21:14	Chelsea B Eastep	1.07
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 23:57	Sara E Johnson	24.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:22	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 09:37	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/15/2011 17:02	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/14/2011 23:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 13:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 12:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179370
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 12:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 12:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 07:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 04:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 00:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 15:51	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5B-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179371
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	170	7.2	8.6		0.98
06192	Benzene	71-43-2	19	0.11	4.3		0.98
06192	Bromobenzene	108-86-1	15	0.14	4.3		0.98
06192	Bromochloromethane	74-97-5	19	0.36	4.3		0.98
06192	Bromodichloromethane	75-27-4	18	0.09	4.3		0.98
06192	Bromoform	75-25-2	18	0.43	4.3		0.98
06192	Bromomethane	74-83-9	14	0.27	4.3		0.98
06192	2-Butanone	78-93-3	140	1.3	8.6		0.98
06192	n-Butylbenzene	104-51-8	11	0.13	4.3		0.98
06192	sec-Butylbenzene	135-98-8	11	0.06	4.3		0.98
06192	tert-Butylbenzene	98-06-6	12	0.17	4.3		0.98
06192	Carbon Tetrachloride	56-23-5	20	0.15	4.3		0.98
06192	Chlorobenzene	108-90-7	16	0.12	4.3		0.98
06192	Chloroethane	75-00-3	15	0.14	4.3		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.32	4.3		0.98
06192	Chloroform	67-66-3	20	0.13	4.3		0.98
06192	Chloromethane	74-87-3	16	0.36	4.3		0.98
06192	2-Chlorotoluene	95-49-8	14	0.15	4.3		0.98
06192	4-Chlorotoluene	106-43-4	14	0.15	4.3		0.98
06192	Chlorotrifluoroethene	79-38-9	28	0.51	5.1		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.75	4.3		0.98
06192	Dibromochloromethane	124-48-1	18	0.22	4.3		0.98
06192	1,2-Dibromoethane	106-93-4	18	0.18	4.3		0.98
06192	Dibromomethane	74-95-3	19	0.26	4.3		0.98
06192	1,2-Dichlorobenzene	95-50-1	15	0.1	4.3		0.98
06192	1,3-Dichlorobenzene	541-73-1	14	0.13	4.3		0.98
06192	1,4-Dichlorobenzene	106-46-7	14	0.17	4.3		0.98
06192	Dichlorodifluoromethane	75-71-8	15	0.13	4.3		0.98
06192	1,1-Dichloroethane	75-34-3	20	0.11	4.3		0.98
06192	1,2-Dichloroethane	107-06-2	19	0.16	4.3		0.98
06192	1,1-Dichloroethene	75-35-4	21	0.42	4.3		0.98
06192	cis-1,2-Dichloroethene	156-59-2	20	0.20	4.3		0.98
06192	trans-1,2-Dichloroethene	156-60-5	20	0.13	4.3		0.98
06192	1,2-Dichloropropane	78-87-5	19	0.18	4.3		0.98
06192	1,3-Dichloropropane	142-28-9	18	0.09	4.3		0.98
06192	2,2-Dichloropropane	594-20-7	20	0.18	4.3		0.98
06192	1,1-Dichloropropene	563-58-6	18	0.14	4.3		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	16	0.17	4.3		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.18	4.3		0.98
06192	Ethylbenzene	100-41-4	14	0.06	4.3		0.98
06192	Freon 113	76-13-1	21	0.12	4.3		0.98
06192	Freon 133a	75-88-7	18	0.51	5.1		0.92
06192	Hexachlorobutadiene	87-68-3	9.8	0.15	4.3		0.98
06192	2-Hexanone	591-78-6	63	1.7	8.6		0.98
06192	Isopropylbenzene	98-82-8	13	0.06	4.3		0.98
06192	p-Isopropyltoluene	99-87-6	11	0.12	4.3		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.23	4.3		0.98
06192	4-Methyl-2-pentanone	108-10-1	66	0.42	8.6		0.98
06192	Methylene Chloride	75-09-2	19	0.26	4.3		0.98
06192	n-Propylbenzene	103-65-1	13	0.07	4.3		0.98

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Sample Description: SL-066-SA5B-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179371
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	15		0.11	4.3		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	18		0.12	4.3		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.25	4.3		0.98
06192	Tetrachloroethene	127-18-4	16		0.22	4.3		0.98
06192	Toluene	108-88-3	17		0.09	4.3		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	14		0.15	4.3		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	12		0.19	4.3		0.98
06192	1,1,1-Trichloroethane	71-55-6	20		0.22	4.3		0.98
06192	1,1,2-Trichloroethane	79-00-5	19		0.29	4.3		0.98
06192	Trichloroethene	79-01-6	18		0.16	4.3		0.98
06192	Trichlorofluoromethane	75-69-4	17		0.31	4.3		0.98
06192	1,2,3-Trichloropropane	96-18-4	17		0.36	4.3		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	13		0.43	4.3		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	13		0.11	4.3		0.98
06192	Vinyl Chloride	75-01-4	16		0.22	4.3		0.98
06192	m+p-Xylene	179601-23-1	29		0.18	4.3		0.98
06192	o-Xylene	95-47-6	14		0.18	4.3		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	140		5.1	15		22.98
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	1,000		180	550		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	1,900	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,500		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,500		18	180		1
04688	Benzoic acid	65-85-0	1,300		180	550		1
04688	Benzyl alcohol	100-51-6	1,700		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,700		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180		1
04688	4-Chloroaniline	106-47-8	910		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,500		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180		1
04688	Chrysene	218-01-9	1,700		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180		1
04688	Dibenzofuran	132-64-9	1,800		18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

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LLI Group # 1228203
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SL063 SDG#: DE054-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180		1
04688	Diethylphthalate	84-66-2	1,700		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000		37	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400		180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,000	J	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		18	370		1
04688	Fluoranthene	206-44-0	1,800		18	180		1
04688	Fluorene	86-73-7	1,700		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,800		73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		180	550		1
04688	Hexachloroethane	67-72-1	1,600		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180		1
04688	Isophorone	78-59-1	1,700		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600		18	180		1
04688	2-Methylphenol	95-48-7	1,700		37	180		1
04688	4-Methylphenol	106-44-5	1,700		37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		18	180		1
04688	2-Nitroaniline	88-74-4	1,900		18	180		1
04688	3-Nitroaniline	99-09-2	1,700		37	180		1
04688	4-Nitroaniline	100-01-6	1,300		73	180		1
04688	Nitrobenzene	98-95-3	1,800		18	180		1
04688	2-Nitrophenol	88-75-5	1,800		18	180		1
04688	4-Nitrophenol	100-02-7	1,900		180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,500		37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,500		18	180		1
04688	Pentachlorophenol	87-86-5	1,300		180	550		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,700		18	180		1
04688	Pyrene	129-00-0	1,700		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		37	180		1

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LLI Sample # SW 6179371
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,900		37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.73	1.8		1
10138	Acenaphthylene	208-96-8	33		0.37	1.8		1
10138	Anthracene	120-12-7	34		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	36		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	43		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	43		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	34		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	51		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	40		6.6	20		1
10138	Di-n-butylphthalate	84-74-2	43		6.6	20		1
10138	Chrysene	218-01-9	35		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	37		0.73	1.8		1
10138	Diethylphthalate	84-66-2	40		6.6	20		1
10138	Dimethylphthalate	131-11-3	39		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43		6.6	20		1
10138	Fluoranthene	206-44-0	34		0.73	1.8		1
10138	Fluorene	86-73-7	35		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	33		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	33		0.73	1.8		1
10138	Naphthalene	91-20-3	35		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	39		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	45		6.6	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	32		0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	19		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,300		5.43	21.6		1
07914	Boron	7440-42-8	204		0.961	5.40		1
01650	Calcium	7440-70-2	3,050		6.62	21.6		1

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	mg/kg	
01654	Iron	7439-89-6	28,800	25.4	108		5
01656	Lithium	7439-93-2	132	0.24	2.2		1
01657	Magnesium	7439-95-4	5,540	2.74	10.8		1
06958	Manganese	7439-96-5	281	0.0842	0.540		1
10145	Phosphorus	7723-14-0	414	0.605	10.8		1
01662	Potassium	7440-09-7	4,060	19.4	54.0		1
01667	Sodium	7440-23-5	1,200	40.3	108		1
07968	Strontium	7440-24-6	132	0.0669	0.540		1
06969	Tin	7440-31-5	395	1.08	10.8		1
06970	Titanium	7440-32-6	1,570	0.410	1.08		1
10146	Zirconium	7440-67-7	105	0.907	5.40		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.903	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.08	0.0654	0.436		2
06126	Barium	7440-39-3	129	0.118	0.436		2
06127	Beryllium	7440-41-7	1.55	0.0174	0.109		2
06128	Cadmium	7440-43-9	1.27	0.0393	0.109		2
06131	Chromium	7440-47-3	33.4	0.131	0.436		2
06132	Cobalt	7440-48-4	57.5	0.0218	0.109		2
06133	Copper	7440-50-8	17.1	0.0720	0.436		2
06135	Lead	7439-92-1	8.99	0.0113	0.218		2
06138	Molybdenum	7439-98-7	12.9	0.0545	0.109		2
06139	Nickel	7440-02-0	21.4	0.109	0.436		2
06141	Selenium	7782-49-2	2.31	0.0436	0.436		2
06142	Silver	7440-22-4	12.1	0.0131	0.109		2
06145	Thallium	7440-28-0	0.781	0.0327	0.109		2
06148	Vanadium	7440-62-2	53.1	0.0240	0.109		2
06149	Zinc	7440-66-6	68.2	0.611	3.27		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.194	0.0031	0.107		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-066-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL063 SDG#: DE054-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 20:51	Chelsea B Eastep	0.98
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 21:36	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/08/2011 00:17	Sara E Johnson	22.98
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:32	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 10:12	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/15/2011 17:34	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/14/2011 23:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/17/2011 09:06	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 13:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 12:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 12:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 12:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179371
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 12:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 08:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5B-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179372
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,900		5.43	21.6		1
07914	Boron	7440-42-8	1.66	J	0.961	5.40		1
01650	Calcium	7440-70-2	3,110		6.62	21.6		1
01654	Iron	7439-89-6	25,400		5.09	21.6		1
01656	Lithium	7439-93-2	23.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,830		2.74	10.8		1
06958	Manganese	7439-96-5	284		0.0842	0.540		1
10145	Phosphorus	7723-14-0	498		0.605	10.8		1
01662	Potassium	7440-09-7	2,820		19.4	54.0		1
01667	Sodium	7440-23-5	136		40.3	108		1
07968	Strontium	7440-24-6	24.0		0.0669	0.540		1
06969	Tin	7440-31-5	2.95	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,370		0.410	1.08		1
10146	Zirconium	7440-67-7	3.16	J	0.907	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.61		0.0648	0.432		2
06126	Barium	7440-39-3	145		0.117	0.432		2
06127	Beryllium	7440-41-7	0.851		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0728	J	0.0389	0.108		2
06131	Chromium	7440-47-3	21.9		0.130	0.432		2
06132	Cobalt	7440-48-4	5.61		0.0216	0.108		2
06133	Copper	7440-50-8	8.54		0.0713	0.432		2
06135	Lead	7439-92-1	7.34		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.519		0.0540	0.108		2
06139	Nickel	7440-02-0	12.1		0.108	0.432		2
06141	Selenium	7782-49-2	0.176	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0382	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.295		0.0324	0.108		2
06148	Vanadium	7440-62-2	44.7		0.0238	0.108		2
06149	Zinc	7440-66-6	55.2		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0268	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5B-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179372
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		mV	mV	mV	mV	
01821	Oxidation Reduction Potential		n.a.	498	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C		n.a.	6.18	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3		n.a.	9.2	0.50	0.50		1
11626	28a Moisture Content by 160.3		n.a.	9.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 13:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 12:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-066-SA5B-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179372
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL063 SDG#: DE054-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 12:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 12:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 12:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 07:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 04:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 00:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 16:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: DUP16-SA5B-QC-010611 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179373
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP16 SDG#: DE054-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.02
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.02
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.02
06192	2-Butanone	78-93-3	1.3	U	1.3	8.9		1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.02
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.02
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.02
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.02
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.02
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.02
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.02
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.02
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.02
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.02
06192	Methylene Chloride	75-09-2	1.2	J	0.27	4.4		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.02

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179373
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP16 SDG#: DE054-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.02
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.02
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.75
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179373
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP16 SDG#: DE054-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.5	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1

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Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179373
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP16 SDG#: DE054-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.27	21.0		1
07914	Boron	7440-42-8	2.09	J	0.933	5.24		1
01650	Calcium	7440-70-2	2,640		6.43	21.0		1
01654	Iron	7439-89-6	21,100		4.94	21.0		1
01656	Lithium	7439-93-2	19.0		0.23	2.1		1
01657	Magnesium	7439-95-4	4,480		2.66	10.5		1
06958	Manganese	7439-96-5	182		0.0818	0.524		1
10145	Phosphorus	7723-14-0	420		0.587	10.5		1
01662	Potassium	7440-09-7	2,500		18.9	52.4		1
01667	Sodium	7440-23-5	106		39.1	105		1
07968	Strontium	7440-24-6	17.9		0.0650	0.524		1
06969	Tin	7440-31-5	2.73	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,200		0.398	1.05		1
10146	Zirconium	7440-67-7	1.03	J	0.881	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.93		0.0642	0.428		2
06126	Barium	7440-39-3	110		0.115	0.428		2
06127	Beryllium	7440-41-7	0.688		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0419	J	0.0385	0.107		2
06131	Chromium	7440-47-3	21.1		0.128	0.428		2
06132	Cobalt	7440-48-4	5.57		0.0214	0.107		2
06133	Copper	7440-50-8	7.20		0.0706	0.428		2

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Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179373
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP16 SDG#: DE054-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	6.13	0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.429	0.0535	0.107		2
06139	Nickel	7440-02-0	9.82	0.107	0.428		2
06141	Selenium	7782-49-2	0.0868 J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0128 U	0.0128	0.107		2
06145	Thallium	7440-28-0	0.382	0.0321	0.107		2
06148	Vanadium	7440-62-2	40.6	0.0235	0.107		2
06149	Zinc	7440-66-6	63.3	0.599	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	497	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.29	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: DUP16-SA5B-QC-010611 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179373
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP16 SDG#: DE054-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 21:58	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/08/2011 00:37	Sara E Johnson	24.75
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:36	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 11:56	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 08:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 00:13	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 14:19	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 13:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 13:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 13:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2

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Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179373
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP16 SDG#: DE054-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 13:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 08:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 04:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 02:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 16:53	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179374
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE054-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.9
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.9
06192	Methylene Chloride	75-09-2	0.68	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: SL-058-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179374
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE054-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.41
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-058-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179374
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE054-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

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Sample Description: SL-058-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179374
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE054-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.46	21.7		1
07914	Boron	7440-42-8	3.05	J	0.966	5.43		1
01650	Calcium	7440-70-2	4,640		6.66	21.7		1
01654	Iron	7439-89-6	20,000		5.11	21.7		1
01656	Lithium	7439-93-2	30.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,850		2.76	10.9		1
06958	Manganese	7439-96-5	279		0.0847	0.543		1
10145	Phosphorus	7723-14-0	401		0.608	10.9		1
01662	Potassium	7440-09-7	2,850		19.5	54.3		1
01667	Sodium	7440-23-5	159		40.5	109		1
07968	Strontium	7440-24-6	15.8		0.0673	0.543		1
06969	Tin	7440-31-5	2.51	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,130		0.413	1.09		1
10146	Zirconium	7440-67-7	1.12	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.192	J	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.88		0.0651	0.434		2
06126	Barium	7440-39-3	83.5		0.117	0.434		2
06127	Beryllium	7440-41-7	0.488		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.127		0.0391	0.109		2
06131	Chromium	7440-47-3	18.5		0.130	0.434		2
06132	Cobalt	7440-48-4	5.48		0.0217	0.109		2
06133	Copper	7440-50-8	8.74		0.0717	0.434		2

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Sample Description: SL-058-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179374
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE054-06

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	5.23	0.0113	0.217		2
06138	Molybdenum		7439-98-7	0.557	0.0543	0.109		2
06139	Nickel		7440-02-0	10.9	0.109	0.434		2
06141	Selenium		7782-49-2	0.161 J	0.0434	0.434		2
06142	Silver		7440-22-4	0.0130 U	0.0130	0.109		2
06145	Thallium		7440-28-0	0.284	0.0326	0.109		2
06148	Vanadium		7440-62-2	36.8	0.0239	0.109		2
06149	Zinc		7440-66-6	67.5	0.608	3.26		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.2	0.89	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10 U	10	33.2		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.35 J	0.22	1.1		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	453	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.10	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-058-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179374
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE054-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 22:20	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/08/2011 00:56	Sara E Johnson	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:40	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 12:31	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 09:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 15:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 14:23	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 13:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 13:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 13:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179374
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE054-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 13:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 08:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 05:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 02:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 17:05	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL051 SDG#: DE054-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.96
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.96
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.96
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.96
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.96
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.96
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.96
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.96
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.96
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.96
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.96
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.96
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.96
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.96
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.96
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.96
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.96
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.96
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.96
06192	Methylene Chloride	75-09-2	0.76	J	0.27	4.5		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.96

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Sample Description: SL-051-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL051 SDG#: DE054-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.96
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.96
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.96
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		22.89
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.0	J	19.5	38.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,300		1

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Sample Description: SL-051-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL051 SDG#: DE054-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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Sample Description: SL-051-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL051 SDG#: DE054-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.02
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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Sample Description: SL-051-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL051 SDG#: DE054-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	700	U	700	1,800		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1

The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction.
The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were

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Sample Description: SL-051-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL051 SDG#: DE054-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		5.76	22.9		1
07914	Boron	7440-42-8	1.52	J	1.02	5.73		1
01650	Calcium	7440-70-2	3,900		7.02	22.9		1
01654	Iron	7439-89-6	28,700		27.0	115		5
01656	Lithium	7439-93-2	25.2		0.25	2.3		1
01657	Magnesium	7439-95-4	6,520		2.91	11.5		1
06958	Manganese	7439-96-5	212		0.0893	0.573		1
10145	Phosphorus	7723-14-0	440		0.641	11.5		1
01662	Potassium	7440-09-7	2,580		20.6	57.3		1
01667	Sodium	7440-23-5	237		42.7	115		1
07968	Strontium	7440-24-6	32.1		0.0710	0.573		1
06969	Tin	7440-31-5	2.69	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,600		0.435	1.15		1
10146	Zirconium	7440-67-7	0.962	U	0.962	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.265		0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.98		0.0681	0.454		2
06126	Barium	7440-39-3	139		0.122	0.454		2
06127	Beryllium	7440-41-7	0.975		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0643	J	0.0408	0.113		2
06131	Chromium	7440-47-3	29.2		0.136	0.454		2
06132	Cobalt	7440-48-4	4.64		0.0227	0.113		2
06133	Copper	7440-50-8	11.2		0.0749	0.454		2
06135	Lead	7439-92-1	8.79		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.689		0.0567	0.113		2
06139	Nickel	7440-02-0	15.0		0.113	0.454		2
06141	Selenium	7782-49-2	0.167	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0289	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.347		0.0340	0.113		2
06148	Vanadium	7440-62-2	52.3		0.0250	0.113		2
06149	Zinc	7440-66-6	77.5		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.93	1.2		1

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Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL051 SDG#: DE054-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.93	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	441		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.42		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-051-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 22:43	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 22:39	Sara E Johnson	22.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:43	Christopher D Meeks	n.a.

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Sample Description: SL-051-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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SL051 SDG#: DE054-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:44	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011 09:41	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 13:06	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 10:02	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011 10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 15:57	Marie D John	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:43	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 10:45	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 18:49	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 15:52	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 00:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110130009A	01/15/2011 09:44	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110130019A	01/13/2011 19:40	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 22:49	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110100011A	01/14/2011 06:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110130009A	01/13/2011 14:10	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	110100011A	01/10/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110130019A	01/13/2011 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/17/2011 09:10	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1

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Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL051 SDG#: DE054-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 14:27	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 13:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 13:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 13:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 13:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 08:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 05:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11020020203A	01/21/2011 05:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 02:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 17:18	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011 19:01	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011 09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1

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Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179375
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL051 SDG#: DE054-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179376
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL050 SDG#: DE054-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		7.2	8.6		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.98
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.98
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.98
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.98
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.98
06192	Methylene Chloride	75-09-2	0.26	U	0.26	4.3		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.98

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Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179376
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL050 SDG#: DE054-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.24
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	20.5	J	18.2	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1

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Sample Description: SL-050-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179376
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL050 SDG#: DE054-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179376
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL050 SDG#: DE054-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-050-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179376
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL050 SDG#: DE054-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.9		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-050-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179376
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

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14420 Albemarle Point Place
Suite 210
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SL050 SDG#: DE054-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.45	21.7		1
07914	Boron	7440-42-8	1.67	J	0.964	5.42		1
01650	Calcium	7440-70-2	4,500		6.64	21.7		1
01654	Iron	7439-89-6	22,100		5.10	21.7		1
01656	Lithium	7439-93-2	20.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,520		2.75	10.8		1
06958	Manganese	7439-96-5	481		0.0845	0.542		1
10145	Phosphorus	7723-14-0	1,320		3.03	54.2		5
01662	Potassium	7440-09-7	2,810		19.5	54.2		1
01667	Sodium	7440-23-5	159		40.4	108		1
07968	Strontium	7440-24-6	32.4		0.0672	0.542		1
06969	Tin	7440-31-5	2.33	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,470		0.412	1.08		1
10146	Zirconium	7440-67-7	0.910	U	0.910	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.10		0.0644	0.429		2
06126	Barium	7440-39-3	128		0.116	0.429		2
06127	Beryllium	7440-41-7	0.569		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.105	J	0.0386	0.107		2
06131	Chromium	7440-47-3	19.6		0.129	0.429		2
06132	Cobalt	7440-48-4	5.71		0.0215	0.107		2
06133	Copper	7440-50-8	7.17		0.0708	0.429		2
06135	Lead	7439-92-1	3.32		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.475		0.0536	0.107		2
06139	Nickel	7440-02-0	10.6		0.107	0.429		2
06141	Selenium	7782-49-2	0.136	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0129	U	0.0129	0.107		2
06145	Thallium	7440-28-0	0.295		0.0322	0.107		2
06148	Vanadium	7440-62-2	39.7		0.0236	0.107		2
06149	Zinc	7440-66-6	69.9		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.88	1.6		1

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SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179376
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SL050 SDG#: DE054-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	458		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-050-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 23:05	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 22:59	Sara E Johnson	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:07	Christopher D Meeks	n.a.

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SL-050-SA5B-SB-3.0-4.0

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Laboratory Sample Analysis Record

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07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:48	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011 09:58	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 13:40	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 10:35	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011 10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 16:33	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:47	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 11:27	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 18:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 00:50	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110130009A	01/15/2011 10:59	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110120021A	01/12/2011 21:00	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 23:03	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110100011A	01/14/2011 07:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110130009A	01/13/2011 14:10	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	110100011A	01/10/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110120021A	01/12/2011 15:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110075708002	01/17/2011 09:13	Joanne M Gates	5
01662	Potassium	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110075708002	01/13/2011 14:31	Joanne M Gates	1

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Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179376
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL050 SDG#: DE054-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110071026001A	01/17/2011 05:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110071026001D	01/11/2011 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110071026001C	01/11/2011 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110071026001B	01/11/2011 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110071026001A	01/11/2011 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110075711001	01/10/2011 08:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110075708002	01/09/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110071026001	01/09/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110075711001	01/09/2011 22:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 05:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11020020203A	01/21/2011 05:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 03:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 17:24	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011 19:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011 09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-010611 Water**
SSFL Area IV Collocated Soil Sampling
TB-010611

LLI Sample # WW 6179377
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:30

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB106 SDG#: DE054-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-010611 Water**
SSFL Area IV Collocated Soil Sampling
TB-010611

LLI Sample # WW 6179377
LLI Group # 1228203
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:30

Submitted: 01/07/2011 09:00
Reported: 02/04/2011 15:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB106 SDG#: DE054-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110101AA	01/10/2011	15:02	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110101AA	01/10/2011	14:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110101AA	01/10/2011	14:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110101AA	01/10/2011	15:02	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11010D20A	01/11/2011	15:06	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	11010D20A	01/11/2011	15:06	Martha L Seidel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110071AA	Sample number(s): 6179368-6179371,6179373-6179376									
Acetone	6.7	U	6.7	8.0	ug/kg	172		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	90		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	99		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	69		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	92		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	87		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	104		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	79		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	77		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	91		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	138*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	91		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	103		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	94		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	85		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	95		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	105		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	90		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	83		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	95		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	93		75-120		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69		61-134		
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	95		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	95		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	88		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106		77-120		
Toluene	0.15	J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	82		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	91		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	78		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	89		80-120		
Batch number: E110071AA	Sample number(s): 6179368-6179371,6179373-6179376									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	110	70-130	1	30
Batch number: E110101AA	Sample number(s): 6179377									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	104	60-132	2	30
Batch number: Y110101AA	Sample number(s): 6179377									
Acetone	6	U	6.	20	ug/l	106	99	49-234	7	30
Benzene	0.5	U	0.5	5	ug/l	102	97	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	104	101	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	104	99	80-120	4	30
Bromoform	1	U	1.	5	ug/l	99	94	61-120	5	30
Bromomethane	1	U	1.	5	ug/l	94	86	44-120	9	30
2-Butanone	3	U	3.	10	ug/l	106	102	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	104	98	78-120	6	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	96	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	106	98	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	97	80-120	5	30
Chloroethane	1	U	1.	5	ug/l	90	87	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	109	103	77-122	6	30
Chloromethane	1	U	1.	5	ug/l	100	96	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	105	99	80-120	5	30
4-Chlorotoluene	1	U	1.	5	ug/l	102	98	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	87	87	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	104	99	66-120	5	30
Dibromochloromethane	1	U	1.	5	ug/l	100	95	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	106	101	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	93	80-120	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	96	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	91	85	47-120	7	30
1,1-Dichloroethane	1	U	1.	5	ug/l	104	98	79-120	6	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	114	108	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	109	105	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	98	80-120	6	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	96	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	96	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	99	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	106	98	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	99	80-120	6	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	94	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	99	97	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	102	98	79-120	4	30
Freon 113	2	U	2.	10	ug/l	113	108	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	95	92	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	91	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	105	102	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	102	97	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	99	80-120	5	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	104	100	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	106	101	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	100	92	80-120	8	30
n-Propylbenzene	1	U	1.	5	ug/l	105	100	80-120	5	30
Styrene	1	U	1.	5	ug/l	101	97	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	98	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	102	98	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	101	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	101	95	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	99	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	94	88	75-127	6	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	97	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	106	99	80-120	7	30
Trichlorofluoromethane	2	U	2.	5	ug/l	102	95	64-129	7	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	106	105	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	104	99	74-120	5	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	98	75-120	6	30
Vinyl Chloride	1	U	1.	5	ug/l	88	83	65-125	6	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	95	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	99	96	80-120	4	30
Batch number: 11008WAB026	Sample number(s): 6179366									
Acenaphthene	0.010	U	0.010	0.050	ug/l	95	94	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	102	100	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	100	98	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	105	100	72-114	5	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	118*	117*	64-115	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	109	122	69-123	11	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	120	119	68-125	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	129*	130*	72-122	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	99	94	70-130	6	30
Di-n-butylphthalate	0.088	J	0.050	1.0	ug/l	115	115	70-130	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	101	97	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	119	110	71-125	8	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	98	98	70-130	0	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	82	81	70-130	2	30
Bis(2-Ethylhexyl)phthalate	0.12	J	0.050	1.0	ug/l	125	126	70-130	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	93	75-116	7	30
Fluorene	0.010	U	0.010	0.050	ug/l	102	97	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	119	110	69-124	7	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	101	75-115	3	30
Naphthalene	0.010	U	0.010	0.050	ug/l	98	93	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	57*	55*	70-130	3	30
Di-n-octylphthalate	0.059	J	0.050	1.0	ug/l	120	129	70-130	7	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	100	96	76-111	5	30
Pyrene	0.010	U	0.010	0.050	ug/l	100	95	69-118	5	30
Batch number: 11010SLB026	Sample number(s): 6179367-6179371,6179373-6179376									
Acenaphthene	17	U	17.	170	ug/kg	93		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	95		75-122		
Aniline	170	U	170.	500	ug/kg	46		10-107		
Anthracene	17	U	17.	170	ug/kg	93		76-112		
Benzidine	1,200	U	1,200.	3,300	ug/kg	41		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	85		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	85		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	76		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	84		67-125		
Benzoic acid	170	U	170.	500	ug/kg	99		10-154		
Benzyl alcohol	170	U	170.	500	ug/kg	85		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	92		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	84		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	83		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	83		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	90		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	78		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	40		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	93		75-117		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Fluorene	17	U	17.	170	ug/kg	96		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	77		64-119		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	91		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	99		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	78		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	91		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	88		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	71		35-106		
Phenanthrene	17	U	17.	170	ug/kg	92		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	94		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11010WAC026	Sample number(s): 6179366									
Aniline	1	U	1.	5	ug/l	71	67	49-101	7	30
Benzidine	20	U	20.	60	ug/l	53	52	20-109	1	30
Benzoic acid	6	U	6.	15	ug/l	32	14	10-69	80*	30
Benzyl alcohol	5	U	5.	15	ug/l	84	86	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	96	82-117	2	30
Carbazole	1	U	1.	5	ug/l	102	100	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	98	99	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	47	49	42-124	4	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	97	97	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	97	100	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	96	97	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	83	84	54-132	0	30
2-Chlorophenol	1	U	1.	5	ug/l	98	99	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	99	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	99	99	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	93	67-108	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	90	92	63-110	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	89	91	65-113	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	66	68	49-111	3	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	101	100	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	99	100	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	108	106	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	82	86	78-119	5	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrophenol	10	U	10.	30	ug/l	69	71	64-120	2	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	98	99	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	101	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	102	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	98	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	92	91	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	57	62	10-118	9	30
Hexachloroethane	1	U	1.	5	ug/l	83	86	52-113	4	30
Isophorone	1	U	1.	5	ug/l	99	99	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	93	94	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	80	80	61-103	0	30
2-Nitroaniline	1	U	1.	5	ug/l	100	102	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	96	98	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	84	83	59-100	1	30
Nitrobenzene	1	U	1.	5	ug/l	98	100	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	99	103	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	43	44	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	100	99	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	98	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	85	85	53-110	0	30
Phenol	1	U	1.	5	ug/l	43	42	29-67	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	96	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	100	100	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	102	81-113	2	30

Batch number: 11011SLA026 Sample number(s): 6179367-6179371,6179373-6179376

Acenaphthene	0.67	U	0.67	1.7	ug/kg	96	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	98	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	120	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	124	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	123	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	144*	66-137
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	114	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	122	84-132
Chrysene	0.33	U	0.33	1.7	ug/kg	100	79-120
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	126	62-142
Diethylphthalate	6.0	U	6.0	18	ug/kg	108	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	111	70-130
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	124	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	108	78-120
Fluorene	0.67	U	0.67	1.7	ug/kg	101	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	127	62-141
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98	72-120
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97	62-120
Naphthalene	0.67	U	0.67	1.7	ug/kg	92	67-120
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102	39-148
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	121	55-176
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101	75-120
Pyrene	0.67	U	0.67	1.7	ug/kg	103	56-121

Batch number: 11011SLB026 Sample number(s): 6179368,6179375-6179376

N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93	70-130

Batch number: 11010A34A Sample number(s): 6179368,6179375-6179376

9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76	80	67-119	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11010D20A	Sample number(s): 6179377									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 110110003A	Sample number(s): 6179368,6179375-6179376									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	93	83	54-134	12	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	93	82	54-134	12	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	107		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100	U	100.	300	ug/kg	94		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	107		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800	U	800.	2,400	ug/kg	111		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 110100020A	Sample number(s): 6179368,6179375-6179376									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	96		80-126		
Batch number: 110100013A	Sample number(s): 6179367									
2,4-D	1.2	U	1.2	3.6	ug/kg	97		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	74		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	72		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	58		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	4*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	134		60-141		
MCPA	76	U	76.	250	ug/kg	66		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	71		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	105		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	76		48-138		
Batch number: 110200023A	Sample number(s): 6179375									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110100012A	Sample number(s): 6179367-6179371,6179373,6179375-6179376									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	61*	73*	75-125	19	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	116		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110100018A	Sample number(s): 6179366									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	58*	62*	75-125	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	98	68-119	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	102	100	68-121	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110130010A	Sample number(s): 6179374									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	61*	68*	75-125	12	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	87		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	101		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110170031A	Sample number(s): 6179367									
Aldrin	0.066	U	0.066	0.17	ug/kg	124		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	96		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	126		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	86		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	92		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	73		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	105		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	122		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	91		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	88		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	138		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	124		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	85		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110130009A	Sample number(s): 6179368,6179375-6179376									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		66-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110120021A	Sample number(s): 6179368,6179376									
Ethanol	100 U		100.	500	ug/kg	116*		75-112		
Isopropanol	100 U		100.	500	ug/kg	100		75-125		
Methanol	100 U		100.	500	ug/kg	108		75-134		
Batch number: 110130019A	Sample number(s): 6179375									
Ethanol	100 U		100.	500	ug/kg	119*		75-112		
Isopropanol	100 U		100.	500	ug/kg	99		75-125		
Methanol	100 U		100.	500	ug/kg	91		75-134		
Batch number: 110180028A	Sample number(s): 6179368,6179375-6179376									
Diethylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Batch number: 110100011A	Sample number(s): 6179368,6179375-6179376									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
Batch number: 110071026001A	Sample number(s): 6179367-6179376									
Antimony	0.0600	U	0.0600	0.200	mg/kg	116		11-208		
Arsenic	0.0600	U	0.0600	0.400	mg/kg	104		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		82-118		
Cadmium	0.0360	U	0.0360	0.100	mg/kg	102		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	110		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	103		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	108		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 110071026001B	Sample number(s): 6179367-6179376									
Selenium	0.0400	U	0.0400	0.400	mg/kg	102		79-122		
Batch number: 110071026001C	Sample number(s): 6179367-6179376									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	111		78-122		
Batch number: 110071026001D	Sample number(s): 6179367-6179376									
Barium	0.108	U	0.108	0.400	mg/kg	104		79-121		
Batch number: 110075708002	Sample number(s): 6179367-6179376									
Aluminum	5.03	U	5.03	20.0	mg/kg	102		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	94		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	104		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	2.54 U	2.54	10.0	mg/kg	101		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	106		81-119		
Phosphorus	1.84 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3 U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	106		79-121		
Tin	1.48 J	1.00	10.0	mg/kg	104		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	109		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110075711001	Sample number(s): 6179367-6179376								
Mercury	0.0028 U	0.0028	0.0992	mg/kg	102		88-123		
Batch number: 110101848002	Sample number(s): 6179366								
Aluminum	0.0834 U	0.0834	0.200	mg/l	95	94	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	91	90	90-110	0	20
Calcium	0.0891 J	0.0702	0.200	mg/l	101	100	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	98	98	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	100	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	98	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	99	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	97	98	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	97	98	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	97	98	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	99	98	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	97	98	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	99	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	99	100	80-120	1	20
Batch number: 110105713005	Sample number(s): 6179366								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	107	107	80-120	0	20
Batch number: 110106050002A	Sample number(s): 6179366								
Antimony	0.00030 U	0.00030	0.0010	mg/l	109	104	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	104	97	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	107	107	90-112	0	20
Cadmium	0.00029 J	0.00020	0.00050	mg/l	105	111	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	99	105	90-118	6	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	105	80-120	6	20
Copper	0.00038 U	0.00038	0.0020	mg/l	102	106	90-113	4	20
Lead	0.00027 J	0.00005 2	0.0010	mg/l	100	105	90-115	5	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	100	103	90-113	4	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	102	102	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	108	89-116	10	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	104	80-120	6	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	113	80-120	9	20
Batch number: 110106050002B	Sample number(s): 6179366								
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	109	85-114	3	20
Batch number: 110106050002C	Sample number(s): 6179366								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	102	80-120	2	20
Batch number: 110106050002D	Sample number(s): 6179366								
Barium	0.00038 U	0.00038	0.0020	mg/l	102	104	88-113	2	20

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Quality Control Summary

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Reported: 02/04/11 at 03:23 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11007196401A	Sample number(s): 6179366									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	103	102	90-110	1	20
Batch number: 11008196904A	Sample number(s): 6179366									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	100	100	90-110	1	20
Batch number: 11014102201A	Sample number(s): 6179368,6179375-6179376									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11018018201A	Sample number(s): 6179367-6179370,6179372-6179376									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11019621701A	Sample number(s): 6179366									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	91		85-115		
Batch number: 11020020203A	Sample number(s): 6179367-6179370,6179372-6179376									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11023243201A	Sample number(s): 6179367-6179370,6179372-6179376									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11010039401A	Sample number(s): 6179367-6179369,6179372-6179376									
22a pH by 9045C						100		95-105		
Batch number: 11010182101A	Sample number(s): 6179367-6179369,6179372-6179376									
Oxidation Reduction Potential						100		98-102		
Batch number: 11012162401B	Sample number(s): 6179367,6179369-6179374									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
Batch number: 11019162401A	Sample number(s): 6179368,6179375-6179376									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110071AA	Sample number(s): 6179368-6179371,6179373-6179376 UNSPK: 6179369								
Acetone	123	107	15-210	14	30				
Benzene	92	90	55-143	3	30				
Bromobenzene	74	72	43-139	3	30				
Bromochloromethane	93	90	60-137	3	30				
Bromodichloromethane	88	85	53-136	3	30				
Bromoform	89	83	38-124	7	30				
Bromomethane	69	65	42-168	5	30				
2-Butanone	94	89	37-163	6	30				
n-Butylbenzene	55	50	30-146	9	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
sec-Butylbenzene	57	53	33-157	7	30				
tert-Butylbenzene	60	56	41-152	6	30				
Carbon Tetrachloride	95	91	45-153	5	30				
Chlorobenzene	80	76	49-135	6	30				
Chloroethane	72	70	39-152	3	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	1	30				
Chloroform	95	92	61-142	4	30				
Chloromethane	77	75	51-163	3	30				
2-Chlorotoluene	68	63	42-146	7	30				
4-Chlorotoluene	67	63	39-145	6	30				
Chlorotrifluoroethene	135*	137*	70-130	13	30				
1,2-Dibromo-3-chloropropane	75	71	30-139	6	30				
Dibromochloromethane	90	85	51-128	5	30				
1,2-Dibromoethane	87	84	54-129	5	30				
Dibromomethane	92	88	57-130	4	30				
1,2-Dichlorobenzene	76	72	36-133	6	30				
1,3-Dichlorobenzene	69	65	34-134	6	30				
1,4-Dichlorobenzene	71	67	35-136	6	30				
Dichlorodifluoromethane	72	68	26-151	7	30				
1,1-Dichloroethane	96	93	63-142	3	30				
1,2-Dichloroethane	93	89	68-131	4	30				
1,1-Dichloroethene	101	95	61-149	6	30				
cis-1,2-Dichloroethene	95	91	60-136	5	30				
trans-1,2-Dichloroethene	96	94	59-142	3	30				
1,2-Dichloropropane	90	88	62-135	3	30				
1,3-Dichloropropane	87	83	58-129	4	30				
2,2-Dichloropropane	95	92	53-147	4	30				
1,1-Dichloropropene	87	84	54-145	3	30				
cis-1,3-Dichloropropene	76	76	51-131	0	30				
trans-1,3-Dichloropropene	77	76	49-129	1	30				
Ethylbenzene	71	67	44-141	7	30				
Freon 113	105	98	56-156	6	30				
Freon 133a	87	90	70-130	11	30				
Hexachlorobutadiene	50	45	10-155	11	30				
2-Hexanone	60	58	32-160	4	30				
Isopropylbenzene	64	59	38-144	8	30				
p-Isopropyltoluene	58	53	29-152	9	30				
Methyl Tertiary Butyl Ether	89	86	55-129	3	30				
4-Methyl-2-pentanone	61	61	46-139	1	30				
Methylene Chloride	90	86	61-141	4	30				
n-Propylbenzene	64	60	39-157	6	30				
Styrene	76	71	35-134	7	30				
1,1,1,2-Tetrachloroethane	88	82	52-130	7	30				
1,1,2,2-Tetrachloroethane	81	78	40-152	4	30				
Tetrachloroethene	79	75	42-149	5	30				
Toluene	83	80	50-146	4	30				
1,2,3-Trichlorobenzene	70	63	10-140	10	30				
1,2,4-Trichlorobenzene	59	55	10-136	8	30				
1,1,1-Trichloroethane	95	94	64-142	1	30				
1,1,2-Trichloroethane	91	87	54-139	4	30				
Trichloroethene	85	82	53-144	3	30				
Trichlorofluoromethane	86	81	47-163	6	30				
1,2,3-Trichloropropane	83	81	45-154	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trimethylbenzene	66	60	37-149	8	30				
1,3,5-Trimethylbenzene	64	59	38-150	8	30				
Vinyl Chloride	78	75	50-154	4	30				
m+p-Xylene	74	68	44-137	8	30				
o-Xylene	69	64	42-137	8	30				
Batch number: E110071AA	Sample number(s): 6179368-6179371,6179373-6179376 UNSPK: 6179369								
1,4-Dioxane	126	112	70-130	20	30				
Batch number: 11010SLB026	Sample number(s): 6179367-6179371,6179373-6179376 UNSPK: 6179369								
Acenaphthene	96	92	75-115	4	30				
Acenaphthylene	99	98	49-126	1	30				
Aniline	51	56	14-114	9	30				
Anthracene	97	96	75-115	1	30				
Benzidine	0*	20*	35-141	200*	30				
Benzo(a)anthracene	95	93	65-122	2	30				
Benzo(a)pyrene	87	84	57-126	3	30				
Benzo(b)fluoranthene	86	82	59-125	4	30				
Benzo(g,h,i)perylene	87	80	59-127	8	30				
Benzo(k)fluoranthene	87	80	56-132	8	30				
Benzoic acid	73	70	10-173	4	30				
Benzyl alcohol	96	90	55-123	7	30				
4-Bromophenyl-phenylether	94	88	67-129	7	30				
Butylbenzylphthalate	95	92	73-134	3	30				
Di-n-butylphthalate	96	92	67-123	4	30				
Carbazole	99	94	64-120	5	30				
4-Chloro-3-methylphenol	100	97	53-130	3	30				
4-Chloroaniline	51	50	23-95	3	30				
bis(2-Chloroethoxy)methane	97	99	54-117	1	30				
bis(2-Chloroethyl)ether	94	84	60-116	12	30				
bis(2-Chloroisopropyl)ether	93	86	55-142	8	30				
2-Chloronaphthalene	80	83	50-141	4	30				
2-Chlorophenol	98	95	73-121	4	30				
4-Chlorophenyl-phenylether	99	96	64-119	3	30				
Chrysene	94	91	62-128	3	30				
Dibenz(a,h)anthracene	86	82	65-125	6	30				
Dibenzofuran	97	96	71-112	1	30				
1,2-Dichlorobenzene	98	90	66-108	8	30				
1,3-Dichlorobenzene	96	87	63-109	10	30				
1,4-Dichlorobenzene	95	88	53-113	7	30				
3,3'-Dichlorobenzidine	61	65	25-123	6	30				
2,4-Dichlorophenol	100	99	78-117	1	30				
Diethylphthalate	97	94	66-118	3	30				
2,4-Dimethylphenol	100	97	56-130	3	30				
3,5-Dimethylphenol	112	107	70-130	4	30				
Dimethylphthalate	97	96	64-118	1	30				
4,6-Dinitro-2-methylphenol	83	76	10-148	9	30				
2,4-Dinitrophenol	72	54	20-143	28	30				
2,4-Dinitrotoluene	105	100	57-114	5	30				
2,6-Dinitrotoluene	100	100	69-123	0	30				
1,2-Diphenylhydrazine	100	97	71-129	3	30				
bis(2-Ethylhexyl)phthalate	94	91	63-122	3	30				
Fluoranthene	100	97	59-122	3	30				

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Quality Control Summary

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Reported: 02/04/11 at 03:23 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	98	94	60-125	4	30				
Hexachlorobenzene	99	94	61-111	5	30				
Hexachlorobutadiene	98	99	62-120	0	30				
Hexachlorocyclopentadiene	94	90	10-153	5	30				
Hexachloroethane	102	90	57-109	13	30				
Indeno(1,2,3-cd)pyrene	86	83	61-126	4	30				
Isophorone	96	95	51-118	1	30				
1-Methylnaphthalene	98	95	73-112	3	30				
2-Methylnaphthalene	91	90	76-114	2	30				
2-Methylphenol	99	93	47-142	7	30				
4-Methylphenol	97	90	55-126	7	30				
Naphthalene	91	91	72-116	0	30				
2-Nitroaniline	105	102	67-125	3	30				
3-Nitroaniline	96	93	59-122	3	30				
4-Nitroaniline	71	71	52-112	1	30				
Nitrobenzene	102	100	51-114	2	30				
2-Nitrophenol	101	96	74-115	5	30				
4-Nitrophenol	106	101	39-133	5	30				
N-Nitroso-di-n-propylamine	93	88	60-116	5	30				
N-Nitrosodimethylamine	87	81	47-116	6	30				
N-Nitrosodiphenylamine	95	92	86-145	3	30				
Di-n-octylphthalate	86	79	56-126	8	30				
Pentachlorophenol	78	73	17-149	7	30				
Phenanthrene	95	94	65-125	2	30				
Phenol	101	94	58-126	7	30				
Pyrene	96	92	51-151	4	30				
1,2,4-Trichlorobenzene	97	95	72-115	2	30				
2,4,5-Trichlorophenol	104	97	34-139	7	30				
2,4,6-Trichlorophenol	102	103	49-140	1	30				
Batch number: 11011SLA026	Sample number(s): 6179367-6179371,6179373-6179376 UNSPK: 6179369								
Acenaphthene	96	91	63-105	5	30				
Acenaphthylene	96	90	55-126	7	30				
Anthracene	97	94	46-136	3	30				
Benzo(a)anthracene	101	99	39-144	2	30				
Benzo(a)pyrene	119	118	34-156	1	30				
Benzo(b)fluoranthene	120	117	43-155	3	30				
Benzo(g,h,i)perylene	95	91	33-141	4	30				
Benzo(k)fluoranthene	134	138	42-144	3	30				
Butylbenzylphthalate	130	109	73-140	17	30				
Di-n-butylphthalate	118	118	78-160	1	30				
Chrysene	100	96	29-156	4	30				
Dibenz(a,h)anthracene	113	101	41-130	11	30				
Diethylphthalate	112	108	87-131	3	30				
Dimethylphthalate	109	105	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	125	117	39-167	7	30				
Fluoranthene	94	91	26-166	3	30				
Fluorene	100	95	45-121	5	30				
Indeno(1,2,3-cd)pyrene	109	100	21-143	8	30				
1-Methylnaphthalene	98	91	72-123	8	30				
2-Methylnaphthalene	95	91	28-121	5	30				
Naphthalene	95	95	61-102	1	30				
N-Nitrosodimethylamine	108	105	48-113	2	30				

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Quality Control Summary

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Reported: 02/04/11 at 03:23 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	132	124	40-192	6	30				
Phenanthrene	96	95	12-165	0	30				
Pyrene	97	87	15-153	11	30				
Batch number: 11011SLB026	Sample number(s): 6179368,6179375-6179376 UNSPK: 6179368								
N-Nitrosodimethylamine	86	90	70-130	4	30				
Batch number: 110110003A	Sample number(s): 6179368,6179375-6179376 UNSPK: P178518								
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	107	104	80-137	3	50				
1,3-Dinitrobenzene	107	104	38-166	3	50				
2,4-Dinitrotoluene	103	101	80-131	2	50				
2,6-Dinitrotoluene	107	105	80-127	2	50				
HMX	94	95	63-128	0	50				
Nitrobenzene	104	101	80-125	3	50				
Nitroglycerin	94	92	80-120	2	50				
2-Nitrotoluene	106	102	80-122	3	50				
3-Nitrotoluene	106	102	72-119	3	50				
4-Nitrotoluene	104	101	80-125	3	50				
PETN	111	109	80-121	1	50				
RDX	105	104	75-129	1	50				
Tetryl	112	109	55-174	2	50				
1,3,5-Trinitrobenzene	113	110	82-126	2	50				
2,4,6-Trinitrotoluene	106	103	82-130	3	50				
Batch number: 110100020A	Sample number(s): 6179368,6179375-6179376 UNSPK: P177800								
17a Formaldehyde by 8315A	98	102	80-120	4	50				
Batch number: 110100013A	Sample number(s): 6179367 UNSPK: 6179367								
2,4-D	92	89	28-161	3	35				
Dalapon	0*	0*	12-86	0	50				
2,4-DB	71	50	20-170	22	50				
Dicamba	64	64	33-120	0	50				
Dinoseb	7	7	1-44	1	35				
2,4-DP (Dichlorprop)	120	119	55-141	1	50				
MCPA	117	145	31-184	21	50				
MCPP (Mecoprop)	137	144	16-174	5	50				
2,4,5-T	81	94	25-132	15	35				
2,4,5-TP	73	71	10-183	3	35				
Batch number: 110200023A	Sample number(s): 6179375 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110100012A	Sample number(s): 6179367-6179371,6179373,6179375-6179376 UNSPK: 6179369								
PCB-1016	86	85	29-146	1	50				
PCB-1260	104	106	39-149	1	50				
Batch number: 110130010A	Sample number(s): 6179374 UNSPK: P180996								
PCB-1016	74	64	29-146	14	50				
PCB-1260	85	82	39-149	4	50				
Batch number: 110170031A	Sample number(s): 6179367 UNSPK: P178512								
Aldrin	100	100	16-126	0	50				

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Quality Control Summary

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Reported: 02/04/11 at 03:23 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Alpha BHC	70	70	10-129	0	50				
Beta BHC	75	81	14-147	8	50				
Gamma BHC - Lindane	73	73	10-140	0	50				
p,p-DDD	70	76	16-163	8	50				
p,p-DDE	88	129	18-161	28	50				
p,p-DDT	63	66	10-176	4	50				
Delta BHC	75	78	23-140	4	50				
Dieldrin	65	65	19-154	0	50				
Endosulfan I	45	48	16-137	6	50				
Endosulfan II	82	80	28-154	2	50				
Endosulfan Sulfate	97	97	21-160	0	50				
Endrin	65	65	11-149	0	50				
Endrin Aldehyde	64	67	10-148	5	35				
Endrin Ketone	95	114	22-165	17	50				
Heptachlor	73	73	13-126	0	50				
Heptachlor Epoxide	91	94	13-157	3	50				
Methoxychlor	79	81	32-147	3	50				
Batch number: 110130009A	Sample number(s): 6179368,6179375-6179376 UNSPK: 6179375								
EFH (C12-C14)	83	79	49-123	6	20				
EFH (C15-C20)	98	92	49-123	6	20				
EFH (C21-C30)	101	100	49-123	1	20				
EFH (C30 - C40)	92	91	49-123	1	20				
EFH (C8-C11)	57	56	49-123	2	20				
Batch number: 110120021A	Sample number(s): 6179368,6179376 UNSPK: 6179368								
Ethanol	93	96	24-143	3	20				
Isopropanol	83	84	75-125	1	20				
Methanol	87	92	45-136	6	20				
Batch number: 110130019A	Sample number(s): 6179375 UNSPK: 6179375								
Ethanol	108	115	24-143	6	20				
Isopropanol	87	92	75-125	5	20				
Methanol	88	93	45-136	5	20				
Batch number: 110180028A	Sample number(s): 6179368,6179375-6179376 UNSPK: P178519								
Diethylene glycol	102	96	59-109	7	20				
Ethylene glycol	100	93	63-107	8	20				
Propylene glycol	99	90	63-107	9	20				
Batch number: 110100011A	Sample number(s): 6179368,6179375-6179376 UNSPK: P178518								
m-Terphenyl	105	105	75-125	0	20				
o-Terphenyl	109	109	75-125	0	20				
p-Terphenyl	102	104	75-125	1	20				
Batch number: 110071026001A	Sample number(s): 6179367-6179376 UNSPK: 6179368 BKG: 6179368								
Antimony	61*	52*	75-125	10	20	0.198 J	0.105 J	61* (1)	20
Arsenic	41 (2)	-44 (2)	75-125	21*	20	8.21	6.01	31*	20
Beryllium	85	61*	75-125	12	20	0.926	0.773	18	20
Cadmium	111	106	75-125	2	20	0.102	0.0661 J	43* (1)	20
Chromium	16*	32*	75-125	5	20	27.2	19.9	31*	20
Cobalt	105	95	75-125	8	20	5.09	5.09	0	20
Copper	75	60*	75-125	8	20	9.63	7.76	21*	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	60*	6*	75-125	18	20	8.00	6.66	18	20
Nickel	81	63*	75-125	8	20	13.2	11.0	18	20
Silver	113	110	75-125	0	20	0.0305 J	0.0347 J	13 (1)	20
Thallium	113	92	75-125	10	20	0.345	0.268	25* (1)	20
Vanadium	-28 (2)	-39 (2)	75-125	2	20	52.0	40.6	25*	20
Zinc	56 (2)	-49 (2)	75-125	15	20	66.8	50.1	29*	20
Batch number: 110071026001B	Sample number(s): 6179367-6179376 UNSPK: 6179368 BKG: 6179368								
Selenium	102	93	75-125	6	20	0.255 J	0.159 J	46* (1)	20
Batch number: 110071026001C	Sample number(s): 6179367-6179376 UNSPK: 6179368 BKG: 6179368								
Molybdenum	114	110	75-125	2	20	0.795	0.472	51* (1)	20
Batch number: 110071026001D	Sample number(s): 6179367-6179376 UNSPK: 6179368 BKG: 6179368								
Barium	-72 (2)	-369 (2)	75-125	22*	20	153	131	15	20
Batch number: 110075708002	Sample number(s): 6179367-6179376 UNSPK: 6179368 BKG: 6179368								
Aluminum	-295 (2)	1275 (2)	75-125	15	20	19,600	20,800	6	20
Boron	96	94	84-115	0	20	1.17 J	1.51 J	25* (1)	20
Calcium	-78 (2)	-50 (2)	75-125	4	20	2,960	2,830	5	20
Iron	1103 (2)	4607 (2)	75-125	14	20	21,700	23,100	6	20
Lithium	103	103	82-114	2	20	18.8	21.3	12	20
Magnesium	250 (2)	432 (2)	75-125	8	20	4,190	4,380	5	20
Manganese	62 (2)	25 (2)	75-125	7	20	243	258	6	20
Phosphorus	-179 (2)	-150 (2)	75-125	7	20	523	452	14	20
Potassium	115	124	75-125	3	20	2,470	2,560	4	20
Sodium	100	99	75-125	1	20	113	123	8 (1)	20
Strontium	103	104	75-115	3	20	18.0	21.8	19	20
Tin	92	91	80-110	1	20	2.61 J	2.68 J	3 (1)	20
Titanium	211 (2)	201 (2)	75-125	0	20	1,220	1,240	2	20
Zirconium	98	95	75-125	1	20	2.09 J	2.87 J	31* (1)	20
Batch number: 110075711001	Sample number(s): 6179367-6179376 UNSPK: 6179368 BKG: 6179368								
Mercury	99	107	65-135	6	20	0.0036 J	0.0243 J	148* (1)	20
Batch number: 11014102201A	Sample number(s): 6179368,6179375-6179376 UNSPK: P177800 BKG: P177800								
21a Cyanide by 9012B	96		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11018018201A	Sample number(s): 6179367-6179370,6179372-6179376 UNSPK: 6179369 BKG: 6179369								
7a Perchlorate EPA 314.0	110		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11019621701A	Sample number(s): 6179366 UNSPK: P177278 BKG: P177278								
7b Perchlorate EPA 314.0	96		80-120			0.70 U	0.70 U	0 (1)	15
Batch number: 11020020203A	Sample number(s): 6179367-6179370,6179372-6179376 UNSPK: 6179369 BKG: 6179369								
11a Anions by 300.0 - Fluoride	62*		80-120			1.4	1.4	4 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			3.2	3.4	7 (1)	20
Batch number: 11023243201A	Sample number(s): 6179367-6179370,6179372-6179376 UNSPK: 6179369 BKG: 6179369								

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Quality Control Summary

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Reported: 02/04/11 at 03:23 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
3a Cr VI by EPA 7199	93		75-125			0.20	U	0.21	J	200* (1)	20
Batch number: 11010039401A	Sample number(s): 6179367-6179369,6179372-6179376					BKG: 6179369					
22a pH by 9045C						6.14		6.18		1	1
Batch number: 11010182101A	Sample number(s): 6179367-6179369,6179372-6179376					BKG: 6179369					
Oxidation Reduction Potential						489		498		2	6
Batch number: 11012162401B	Sample number(s): 6179367,6179369-6179374					BKG: 6179369					
28a Moisture Content by 160.3						9.2		9.0		1	20
28a Moisture Content by 160.3						9.2		9.0		1	20
28a Moisture Content by 160.3						9.2		9.0		1	20
Batch number: 11019162401A	Sample number(s): 6179368,6179375-6179376					BKG: P183549					
28a Moisture Content by 160.3						13.8		13.9		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6179368	112	109	95	89
6179369	111	105	95	88
6179370	105	105	102	101
6179371	103	103	101	98
6179373	109	106	95	87
6179374	111	107	94	88
6179375	110	104	95	88
6179376	111	109	94	88
Blank	108	105	95	89
LCS	102	104	101	101
MS	105	105	102	101
MSD	103	103	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110071AA

	Toluene-d8
6179368	100
6179369	99
6179370	99
6179371	98
6179373	98
6179374	99

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Quality Control Summary

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Reported: 02/04/11 at 03:23 PM

Surrogate Quality Control

6179375	100
6179376	100
Blank	102
LCS	102
LCSD	101
MS	99
MSD	98
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110101AA

	Toluene-d8
6179377	101
Blank	101
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6179377	103	101	99	98
Blank	104	101	99	100
LCS	103	105	100	101
LCSD	104	104	100	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11008WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6179366	121	87	85
Blank	88	79	84
LCS	104	94	95
LCSD	105	92	92
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11010SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6179367	82	79	98	75	83	75
6179368	86	85	104	79	91	92
6179369	93	92	104	86	94	87
6179370	98	96	111	91	92	86
6179371	93	91	109	93	91	85
6179373	84	82	96	77	87	83
6179374	87	86	97	79	91	81
6179375	86	84	99	79	88	83
6179376	91	90	107	83	93	87
Blank	85	85	99	82	91	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Surrogate Quality Control

LCS	88	87	107	84	90	84
MS	98	96	111	91	92	86
MSD	93	91	109	93	91	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11010WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6179366	40	28	85	86	87	83
Blank	51	33	96	88	89	83
LCS	62	41	96	92	93	84
LCSD	61	40	95	92	93	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11011SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6179367	102	93	73
6179368	96	93	89
6179369	97	92	83
6179370	102	103	100
6179371	90	96	89
6179373	94	98	83
6179374	88	93	97
6179375	104	88	90
6179376	83	75	78
Blank	96	92	96
LCS	96	97	98
MS	102	103	100
MSD	90	96	89
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11011SLB026

	N-Nitrosodimethylamine-d6
6179368	122
6179375	123
6179376	131
Blank	131
LCS	112
MS	139
MSD	102
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11010A34A

	Trifluorotoluene-F
6179368	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Surrogate Quality Control

6179375	86
6179376	82
Blank	86
LCS	91
LCSD	96
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11010D20A

	Trifluorotoluene-F
6179377	79
Blank	78
LCS	101
LCSD	104
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110100012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6179367	104	95
6179368	109	153*
6179369	92	91
6179370	98	98
6179371	92	101
6179373	110	111
6179375	93	128*
6179376	119	127*
Blank	87	98
LCS	93	107
LCSD	96	106
MS	98	98
MSD	92	101
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110100013A

	2,4-Dichlorophenylacetic acid
6179367	101
Blank	91
LCS	85
MS	116
MSD	119
Limits:	36-156

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110100018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6179366	100	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Surrogate Quality Control

Blank	109	81
LCS	108	91
LCSD	95	86
Limits:	30-150	45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110100020A

	Butyraldehyde
6179368	88
6179375	92
6179376	91
Blank	99
LCS	103
MS	102
MSD	103
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110110003A

	2-Nitro-m-xylene
6179368	122
6179375	113
6179376	113
Blank	119
LCS	121
LCSD	120
MS	118
MSD	114
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110130010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6179374	89	79
Blank	95	96
LCS	90	97
LCSD	95	100
MS	67	82
MSD	78	80
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 110170031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6179367	67	65
Blank	91	105
LCS	92	106
MS	83	74
MSD	91	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Surrogate Quality Control

Limits: 50-130 20-120

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110100011A

	n-Triacontane-d62
6179368	99
6179375	89
6179376	101
Blank	130
LCS	104
MS	101
MSD	100

Limits: 50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110120021A

	Acetone
6179368	90
6179376	97
Blank	111
LCS	98
MS	85
MSD	89

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110130009A

	Chlorobenzene	Orthoterphenyl
6179368	103	94
6179375	80	79
6179376	84	81
Blank	86	82
LCS	85	84
MS	88	87
MSD	86	85

Limits: 37-125 47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 110130019A

	Acetone
6179375	80
Blank	91
LCS	96
MS	81
MSD	85

Limits: 42-138

Analysis Name: 27a Glycols by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228203
Reported: 02/04/11 at 03:23 PM

Surrogate Quality Control

Batch number: 110180028A

	Tetramethylene glycol
6179368	99
6179375	86
6179376	81
Blank	98
LCS	104
MS	110
MSD	99
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1228203 6179366-77

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 8850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	*VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB18-SA5B-010611	01.06.1	1300	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																			
EB18-SA5B-010611	01.06.1	1300	WATER	NONE	1 - 500 mL POLY		X				X	X																	SUBSURFACE TOOL RINSATE
EB18-SA5B-010611	01.06.1	1300	WATER	HNO3	1 - 500 mL POLY	X																							SUBSURFACE TOOL RINSATE
SL-137-SA5B-SS-0.0-0.5	01.06.1	1058	SOIL	NONE	1-16 oz. jar & 1-6" sleeve	X	X	X	X	X	X	X		X	X														SUBSURFACE TOOL RINSATE
SL-063-SA5B-SB-3.0-4.0	01.06.1	1207	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-063-SA5B-SB-3.5	01.06.1	1205	SOIL	NONE	5 ENCORES											X	X	X											
SL-066-SA5B-SB-3.0-4.0MS	01.06.1	0938	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X																	
SL-066-SA5B-SB-3.5MS	01.06.1	0933	SOIL	NONE	12 ENCORES											X	X												MS/MSD
DUP16-SA5B-QC-010611	01.06.1	0940	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	MS/MSD
DUP16-SA5B-QC-010611	01.06.1	0940	SOIL	NONE	4 ENCORES											X	X												FIELD DUPLICATE
SL-058-SA5B-SB-4.5	01.06.1	1543	SOIL	NONE	4 ENCORES											X	X												FIELD DUPLICATE
SL-058-SA5B-SB-4.0-5.0	01.06.1	1547	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X												
SL-051-SA5B-SB-3.5	01.06.1	1440	SOIL	NONE	5 ENCORES											X	X	X											
SL-051-SA5B-SB-3.0-4.0	01.06.1	1445	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-050-SA5B-SB-3.5	01.06.1	1540	SOIL	NONE	5 ENCORES											X	X	X											
SL-050-SA5B-SB-3.0-4.0	01.06.1	1544	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
TB-010611	01.06.1	1230	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/6/2011, 16:20		1/7/11 900
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8085 1432 2810, ...2821	

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/07/2011
Group Number: 1228206
SDG: DX036
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
EB18-SA5B-010611 Water	6179385
SL-137-SA5B-SS-0.0-0.5 Soil	6179386
SL-063-SA5B-SB-3.0-4.0 Soil	6179387
SL-066-SA5B-SB-3.0-4.0 Soil	6179388
SL-066-SA5B-SB-3.0-4.0MS Soil	6179389
SL-066-SA5B-SB-3.0-4.0MSD Soil	6179390
DUP16-SA5B-QC-010611 Soil	6179391
SL-058-SA5B-SB-4.0-5.0 Soil	6179392
SL-051-SA5B-SB-3.0-4.0 Soil	6179393
SL-050-SA5B-SB-3.0-4.0 Soil	6179394

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **EB18-SA5B-010611 Water**
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179385
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB18 SDG#: DX036-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.809	U	0.809	2.15	1
10915	12378-PeCDD	40321-76-4	0.566	U	0.566	10.7	1
10915	123478-HxCDD	39227-28-6	0.290	U	0.290	10.7	1
10915	123678-HxCDD	57653-85-7	0.380	JBQ	0.306	10.7	1
10915	123789-HxCDD	19408-74-3	0.345	U	0.345	10.7	1
10915	1234678-HpCDD	35822-46-9	3.40	JBQ	0.660	10.7	1
10915	OCDD	3268-87-9	10.0	JB	0.660	21.5	1
10915	2378-TCDF	51207-31-9	0.491	U	0.491	2.15	1
10915	12378-PeCDF	57117-41-6	0.180	JBQ	0.169	10.7	1
10915	23478-PeCDF	57117-31-4	0.787	JBQ	0.153	10.7	1
10915	123478-HxCDF	70648-26-9	0.792	JBQ	0.259	10.7	1
10915	123678-HxCDF	57117-44-9	0.455	JBQ	0.232	10.7	1
10915	123789-HxCDF	72918-21-9	0.782	JB	0.357	10.7	1
10915	234678-HxCDF	60851-34-5	1.36	JBQ	0.280	10.7	1
10915	1234678-HpCDF	67562-39-4	4.07	JBQ	0.271	10.7	1
10915	1234789-HpCDF	55673-89-7	0.897	JBQ	0.362	10.7	1
10915	OCDF	39001-02-0	3.25	JBQ	0.575	21.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	35	25 - 164
13C12-12378-PeCDD	52	25 - 181
13C12-123478-HxCDD	49	32 - 141
13C12-123678-HxCDD	48	28 - 130
13C12-123789-HxCDD	41	28 - 130
13C12-1234678-HpCDD	49	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	42	24 - 169
13C12-12378-PeCDF	55	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	39	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB18-SA5B-010611 Water**
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179385
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB18 SDG#: DX036-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021002	02/02/2011 19:06	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11021002	01/22/2011 07:30	Deborah M Zimmerman	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179386
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL137 SDG#: DX036-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179386
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL137 SDG#: DX036-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0387	U	0.0387	1.10	1
11031	12378-PeCDD	40321-76-4	0.147	JQ	0.0409	5.51	1
11031	123478-HxCDD	39227-28-6	0.206	JQ	0.0601	5.51	1
11031	123678-HxCDD	57653-85-7	0.690	JQ	0.0603	5.51	1
11031	123789-HxCDD	19408-74-3	0.444	JBQ	0.0602	5.51	1
11031	1234678-HpCDD	35822-46-9	25.1	B	0.0854	5.51	1
11031	OCDD	3268-87-9	364	B	0.0899	11.0	1
11031	2378-TCDF	51207-31-9	0.0714	JQ	0.0534	1.10	1
11031	12378-PeCDF	57117-41-6	0.307	JB	0.0337	5.51	1
11031	23478-PeCDF	57117-31-4	0.254	JBQ	0.0323	5.51	1
11031	123478-HxCDF	70648-26-9	0.457	JBQ	0.0486	5.51	1
11031	123678-HxCDF	57117-44-9	0.360	JB	0.0395	5.51	1
11031	123789-HxCDF	72918-21-9	0.282	JB	0.0410	5.51	1
11031	234678-HxCDF	60851-34-5	0.373	JB	0.0374	5.51	1
11031	1234678-HpCDF	67562-39-4	3.87	JB	0.0391	5.51	1
11031	1234789-HpCDF	55673-89-7	0.465	JB	0.0406	5.51	1
11031	OCDF	39001-02-0	8.01	JB	0.0426	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179386
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL137 SDG#: DX036-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179386
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL137 SDG#: DX036-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 14:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179387
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL063 SDG#: DX036-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-063-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179387
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL063 SDG#: DX036-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	U	0.0390	1.08	1
11031	12378-PeCDD	40321-76-4	0.0536	JQ	0.0400	5.42	1
11031	123478-HxCDD	39227-28-6	0.0343	U	0.0343	5.42	1
11031	123678-HxCDD	57653-85-7	0.0351	U	0.0351	5.42	1
11031	123789-HxCDD	19408-74-3	0.0872	JB	0.0334	5.42	1
11031	1234678-HpCDD	35822-46-9	1.53	JB	0.0622	5.42	1
11031	OCDD	3268-87-9	25.4	B	0.0427	10.8	1
11031	2378-TCDF	51207-31-9	0.0408	U	0.0408	1.08	1
11031	12378-PeCDF	57117-41-6	0.0412	JBQ	0.0203	5.42	1
11031	23478-PeCDF	57117-31-4	0.121	JBQ	0.0233	5.42	1
11031	123478-HxCDF	70648-26-9	0.112	JBQ	0.0272	5.42	1
11031	123678-HxCDF	57117-44-9	0.0668	JB	0.0206	5.42	1
11031	123789-HxCDF	72918-21-9	0.0822	JBQ	0.0329	5.42	1
11031	234678-HxCDF	60851-34-5	0.0592	JBQ	0.0237	5.42	1
11031	1234678-HpCDF	67562-39-4	0.265	JBQ	0.0216	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0585	JBQ	0.0442	5.42	1
11031	OCDF	39001-02-0	0.414	JBQ	0.0589	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179387
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL063 SDG#: DX036-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179387
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL063 SDG#: DX036-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 15:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179388
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179388
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	U	0.0382	1.10	1
11031	12378-PeCDD	40321-76-4	0.0311	U	0.0311	5.51	1
11031	123478-HxCDD	39227-28-6	0.0316	U	0.0316	5.51	1
11031	123678-HxCDD	57653-85-7	0.0899	J	0.0312	5.51	1
11031	123789-HxCDD	19408-74-3	0.0938	JBQ	0.0295	5.51	1
11031	1234678-HpCDD	35822-46-9	0.517	JBQ	0.0446	5.51	1
11031	OCDD	3268-87-9	4.53	JB	0.0449	11.0	1
11031	2378-TCDF	51207-31-9	0.0328	U	0.0328	1.10	1
11031	12378-PeCDF	57117-41-6	0.0321	JBQ	0.0192	5.51	1
11031	23478-PeCDF	57117-31-4	0.0658	JBQ	0.0202	5.51	1
11031	123478-HxCDF	70648-26-9	0.0734	JBQ	0.0228	5.51	1
11031	123678-HxCDF	57117-44-9	0.0713	JBQ	0.0193	5.51	1
11031	123789-HxCDF	72918-21-9	0.0519	JBQ	0.0248	5.51	1
11031	234678-HxCDF	60851-34-5	0.0875	JBQ	0.0204	5.51	1
11031	1234678-HpCDF	67562-39-4	0.308	JB	0.0186	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0405	JBQ	0.0259	5.51	1
11031	OCDF	39001-02-0	0.319	JB	0.0491	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179388
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179388
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 16:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179389
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179389
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.7		0.0891	1.10	1
11031	12378-PeCDD	40321-76-4	119		0.0912	5.51	1
11031	123478-HxCDD	39227-28-6	119		0.0839	5.51	1
11031	123678-HxCDD	57653-85-7	121		0.0903	5.51	1
11031	123789-HxCDD	19408-74-3	116	B	0.0819	5.51	1
11031	1234678-HpCDD	35822-46-9	118	B	0.0927	5.51	1
11031	OCDD	3268-87-9	233	B	0.0794	11.0	1
11031	2378-TCDF	51207-31-9	26.4		0.0936	1.10	1
11031	12378-PeCDF	57117-41-6	120	B	0.0563	5.51	1
11031	23478-PeCDF	57117-31-4	121	B	0.0613	5.51	1
11031	123478-HxCDF	70648-26-9	115	B	0.0850	5.51	1
11031	123678-HxCDF	57117-44-9	114	B	0.0665	5.51	1
11031	123789-HxCDF	72918-21-9	113	B	0.0978	5.51	1
11031	234678-HxCDF	60851-34-5	117	B	0.0779	5.51	1
11031	1234678-HpCDF	67562-39-4	113	B	0.0508	5.51	1
11031	1234789-HpCDF	55673-89-7	117	B	0.0894	5.51	1
11031	OCDF	39001-02-0	233	B	0.111	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179389
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179389
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 17:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179390
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179390
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.7		0.0753	1.10	1
11031	12378-PeCDD	40321-76-4	118		0.0675	5.51	1
11031	123478-HxCDD	39227-28-6	118		0.0851	5.51	1
11031	123678-HxCDD	57653-85-7	119		0.0884	5.51	1
11031	123789-HxCDD	19408-74-3	117	B	0.0863	5.51	1
11031	1234678-HpCDD	35822-46-9	118	B	0.0814	5.51	1
11031	OCDD	3268-87-9	234	B	0.0669	11.0	1
11031	2378-TCDF	51207-31-9	25.9		0.0798	1.10	1
11031	12378-PeCDF	57117-41-6	121	B	0.0385	5.51	1
11031	23478-PeCDF	57117-31-4	123	B	0.0437	5.51	1
11031	123478-HxCDF	70648-26-9	117	B	0.0693	5.51	1
11031	123678-HxCDF	57117-44-9	117	B	0.0566	5.51	1
11031	123789-HxCDF	72918-21-9	116	B	0.0827	5.51	1
11031	234678-HxCDF	60851-34-5	118	B	0.0656	5.51	1
11031	1234678-HpCDF	67562-39-4	117	B	0.0480	5.51	1
11031	1234789-HpCDF	55673-89-7	115	B	0.0770	5.51	1
11031	OCDF	39001-02-0	233	B	0.0737	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179390
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179390
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 18:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179391
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP16 SDG#: DX036-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179391
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP16 SDG#: DX036-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0398	U	0.0398	1.08	1
11031	12378-PeCDD	40321-76-4	0.192	JQ	0.0343	5.40	1
11031	123478-HxCDD	39227-28-6	0.128	J	0.0313	5.40	1
11031	123678-HxCDD	57653-85-7	0.186	J	0.0323	5.40	1
11031	123789-HxCDD	19408-74-3	0.274	JB	0.0306	5.40	1
11031	1234678-HpCDD	35822-46-9	0.383	JB	0.0440	5.40	1
11031	OCDD	3268-87-9	1.40	JB	0.0314	10.8	1
11031	2378-TCDF	51207-31-9	0.0428	U	0.0428	1.08	1
11031	12378-PeCDF	57117-41-6	0.137	JBQ	0.0189	5.40	1
11031	23478-PeCDF	57117-31-4	0.204	JBQ	0.0210	5.40	1
11031	123478-HxCDF	70648-26-9	0.194	JBQ	0.0315	5.40	1
11031	123678-HxCDF	57117-44-9	0.146	JB	0.0239	5.40	1
11031	123789-HxCDF	72918-21-9	0.223	JB	0.0352	5.40	1
11031	234678-HxCDF	60851-34-5	0.215	JBQ	0.0279	5.40	1
11031	1234678-HpCDF	67562-39-4	0.343	JB	0.0139	5.40	1
11031	1234789-HpCDF	55673-89-7	0.232	JB	0.0284	5.40	1
11031	OCDF	39001-02-0	0.590	JB	0.0610	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179391
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP16 SDG#: DX036-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179391
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP16 SDG#: DX036-05FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 19:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179392
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL058 SDG#: DX036-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179392
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL058 SDG#: DX036-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0342	U	0.0342	1.11	1
11031	12378-PeCDD	40321-76-4	0.0407	JQ	0.0331	5.54	1
11031	123478-HxCDD	39227-28-6	0.0385	JQ	0.0282	5.54	1
11031	123678-HxCDD	57653-85-7	0.138	JQ	0.0307	5.54	1
11031	123789-HxCDD	19408-74-3	0.0456	JB	0.0283	5.54	1
11031	1234678-HpCDD	35822-46-9	2.76	JB	0.0446	5.54	1
11031	OCDD	3268-87-9	29.8	B	0.0364	11.1	1
11031	2378-TCDF	51207-31-9	0.0408	U	0.0408	1.11	1
11031	12378-PeCDF	57117-41-6	0.0679	JBQ	0.0168	5.54	1
11031	23478-PeCDF	57117-31-4	0.126	JBQ	0.0198	5.54	1
11031	123478-HxCDF	70648-26-9	0.0775	JB	0.0224	5.54	1
11031	123678-HxCDF	57117-44-9	0.0354	JB	0.0175	5.54	1
11031	123789-HxCDF	72918-21-9	0.0539	JBQ	0.0267	5.54	1
11031	234678-HxCDF	60851-34-5	0.104	JBQ	0.0212	5.54	1
11031	1234678-HpCDF	67562-39-4	0.448	JB	0.0187	5.54	1
11031	1234789-HpCDF	55673-89-7	0.100	JB	0.0362	5.54	1
11031	OCDF	39001-02-0	1.13	JB	0.0539	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179392
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL058 SDG#: DX036-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179392
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL058 SDG#: DX036-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 20:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179393
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL051 SDG#: DX036-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179393
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL051 SDG#: DX036-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0433	U	0.0433	1.17	1
11031	12378-PeCDD	40321-76-4	0.0393	JQ	0.0360	5.84	1
11031	123478-HxCDD	39227-28-6	0.0311	U	0.0311	5.84	1
11031	123678-HxCDD	57653-85-7	0.0395	JQ	0.0318	5.84	1
11031	123789-HxCDD	19408-74-3	0.0521	JB	0.0300	5.84	1
11031	1234678-HpCDD	35822-46-9	0.557	JB	0.0499	5.84	1
11031	OCDD	3268-87-9	5.79	JBQ	0.0374	11.7	1
11031	2378-TCDF	51207-31-9	0.0729	JQ	0.0485	1.17	1
11031	12378-PeCDF	57117-41-6	0.0455	JBQ	0.0203	5.84	1
11031	23478-PeCDF	57117-31-4	0.0771	JBQ	0.0230	5.84	1
11031	123478-HxCDF	70648-26-9	0.113	JBQ	0.0236	5.84	1
11031	123678-HxCDF	57117-44-9	0.0318	JBQ	0.0178	5.84	1
11031	123789-HxCDF	72918-21-9	0.0551	JBQ	0.0279	5.84	1
11031	234678-HxCDF	60851-34-5	0.0462	JB	0.0215	5.84	1
11031	1234678-HpCDF	67562-39-4	0.243	JB	0.0165	5.84	1
11031	1234789-HpCDF	55673-89-7	0.0492	JBQ	0.0352	5.84	1
11031	OCDF	39001-02-0	0.482	JBQ	0.0786	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	105	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	101	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	110	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	102	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	129	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179393
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL051 SDG#: DX036-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179393
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL051 SDG#: DX036-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179394
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL050 SDG#: DX036-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179394
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL050 SDG#: DX036-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0437	U	0.0437	1.09	1
11031	12378-PeCDD	40321-76-4	0.0836	JQ	0.0464	5.47	1
11031	123478-HxCDD	39227-28-6	0.0332	U	0.0332	5.47	1
11031	123678-HxCDD	57653-85-7	0.0801	JQ	0.0364	5.47	1
11031	123789-HxCDD	19408-74-3	0.0534	JBQ	0.0347	5.47	1
11031	1234678-HpCDD	35822-46-9	0.298	JBQ	0.0553	5.47	1
11031	OCDD	3268-87-9	0.865	JB	0.0395	10.9	1
11031	2378-TCDF	51207-31-9	0.0491	U	0.0491	1.09	1
11031	12378-PeCDF	57117-41-6	0.128	JBQ	0.0226	5.47	1
11031	23478-PeCDF	57117-31-4	0.153	JBQ	0.0256	5.47	1
11031	123478-HxCDF	70648-26-9	0.0949	JB	0.0246	5.47	1
11031	123678-HxCDF	57117-44-9	0.0686	JBQ	0.0190	5.47	1
11031	123789-HxCDF	72918-21-9	0.114	JBQ	0.0316	5.47	1
11031	234678-HxCDF	60851-34-5	0.111	JBQ	0.0236	5.47	1
11031	1234678-HpCDF	67562-39-4	0.184	JB	0.0158	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0330	U	0.0330	5.47	1
11031	OCDF	39001-02-0	0.347	JB	0.0775	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179394
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL050 SDG#: DX036-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179394
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL050 SDG#: DX036-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 01:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228206
Reported: 02/13/11 at 09:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11012162401B	Sample number(s): 6179386,6179388-6179392								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11019162401A	Sample number(s): 6179387,6179393-6179394								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11021001	Sample number(s): 6179386-6179394								
2378-TCDD	0.0354 U	0.0354	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0366 U	0.0366	5.00	ng/kg	110		70-142		
123478-HxCDD	0.0249 U	0.0249	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0264 U	0.0264	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0280 J	0.0250	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.322 J	0.0353	5.00	ng/kg	108		70-140		
OCDD	0.950 J	0.0305	10.0	ng/kg	107		78-144		
2378-TCDF	0.0381 U	0.0381	1.00	ng/kg	123		75-158		
12378-PeCDF	0.0396 J	0.0179	5.00	ng/kg	110		80-134		
23478-PeCDF	0.111 J	0.0206	5.00	ng/kg	111		68-160		
123478-HxCDF	0.107 J	0.0271	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0673 J	0.0178	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0637 J	0.0274	5.00	ng/kg	105		78-130		
234678-HxCDF	0.106 J	0.0214	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.440 J	0.0167	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0720 J	0.0310	5.00	ng/kg	106		78-138		
OCDF	0.468 J	0.0558	10.0	ng/kg	107		63-170		
Batch number: 11021002	Sample number(s): 6179385								
2378-TCDD	0.269 U	0.269	2.00	pg/l	88		67-158		
12378-PeCDD	0.587 J	0.282	10.0	pg/l	92		70-142		
123478-HxCDD	0.280 J	0.207	10.0	pg/l	96		70-164		
123678-HxCDD	0.361 J	0.211	10.0	pg/l	97		76-134		
123789-HxCDD	0.721 J	0.201	10.0	pg/l	98		64-162		
1234678-HpCDD	3.45 J	0.381	10.0	pg/l	101		70-140		
OCDD	5.60 J	0.323	20.0	pg/l	110		78-144		
2378-TCDF	0.204 U	0.204	2.00	pg/l	94		75-158		
12378-PeCDF	0.543 J	0.107	10.0	pg/l	97		80-134		
23478-PeCDF	0.960 J	0.100	10.0	pg/l	95		68-160		
123478-HxCDF	0.861 J	0.195	10.0	pg/l	99		72-134		
123678-HxCDF	0.712 J	0.179	10.0	pg/l	100		84-130		
123789-HxCDF	0.990 J	0.182	10.0	pg/l	97		78-130		
234678-HxCDF	1.45 J	0.170	10.0	pg/l	98		70-156		
1234678-HpCDF	6.10 J	0.165	10.0	pg/l	103		82-122		
1234789-HpCDF	1.02 J	0.191	10.0	pg/l	104		78-138		
OCDF	3.47 J	0.287	20.0	pg/l	109		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228206
Reported: 02/13/11 at 09:47 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11012162401B	Sample number(s): 6179386,6179388-6179392 BKG: P179369								
28a Moisture Content by 160.3						9.2	9.0	1	20
Batch number: 11019162401A	Sample number(s): 6179387,6179393-6179394 BKG: P183549								
28a Moisture Content by 160.3						13.8	13.9	1	20
Batch number: 11021001	Sample number(s): 6179386-6179394 UNSPK: 6179388								
2378-TCDD	108	108	67-158	0	25				
12378-PeCDD	108	107	70-142	0	25				
123478-HxCDD	108	107	70-164	1	25				
123678-HxCDD	110	108	76-134	2	25				
123789-HxCDD	105	106	64-162	1	25				
1234678-HpCDD	107	107	70-140	1	25				
OCDD	104	104	78-144	0	25				
2378-TCDF	120	118	75-158	2	25				
12378-PeCDF	109	110	80-134	1	25				
23478-PeCDF	110	112	68-160	2	25				
123478-HxCDF	105	106	72-134	1	25				
123678-HxCDF	104	106	84-130	3	25				
123789-HxCDF	103	105	78-130	2	25				
234678-HxCDF	106	107	70-156	1	25				
1234678-HpCDF	103	106	82-122	3	25				
1234789-HpCDF	106	105	78-138	1	25				
OCDF	106	106	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11021001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6179386	72	78	57	68	73	79
6179387	69	76	65	82	72	62
6179388	67	73	65	73	70	70
6179389	57	61	59	74	62	61
6179390	64	76	70	84	73	70
6179391	68	75	68	86	73	67
6179392	72	75	69	88	73	69
6179393	85	89	80	102	84	76
6179394	69	71	68	84	70	63
Blank	75	71	57	82	70	65

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228206
Reported: 02/13/11 at 09:47 PM

Surrogate Quality Control

MS	57	61	59	74	62	61
MSD	64	76	70	84	73	70
OPR	63	62	59	77	63	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6179386	67	80	76	81	81	72
6179387	102	64	60	85	88	78
6179388	82	72	68	81	78	69
6179389	88	61	60	73	68	66
6179390	97	76	72	85	83	75
6179391	110	66	62	86	87	78
6179392	108	68	65	88	86	80
6179393	129	75	69	105	105	92
6179394	101	62	57	88	74	77
Blank	96	68	66	93	79	77
MS	88	61	60	73	68	66
MSD	97	76	72	85	83	75
OPR	90	57	56	82	67	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6179386	72	72	78	77	73	79
6179387	77	77	81	82	69	91
6179388	69	71	76	75	69	80
6179389	64	67	73	74	57	73
6179390	75	75	83	83	68	88
6179391	78	80	87	88	69	91
6179392	78	81	87	88	70	93
6179393	93	93	101	101	82	110
6179394	74	75	79	79	70	86
Blank	79	80	88	89	68	87
MS	64	67	73	74	57	73
MSD	75	75	83	83	68	88
OPR	70	72	74	73	61	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11021002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6179385	35	55	53	57	46	39
Blank	69	72	70	74	75	79
OPR	67	71	72	77	73	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6179385	58	52	60	80	52	49

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228206
Reported: 02/13/11 at 09:47 PM

Surrogate Quality Control

Blank	73	76	83	96	69	69
OPR	74	76	81	83	69	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6179385	48	41	49	50	42	55
Blank	72	70	73	77	71	73
OPR	70	69	73	75	68	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1228206 6179385-94

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: *VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB18-SA5B-010611	01.06.1	1300	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																		SUBSURFACE TOOL RINSATE
EB18-SA5B-010611	01.06.1	1300	WATER	NONE	1 - 500 mL POLY		X					X																	SUBSURFACE TOOL RINSATE
EB18-SA5B-010611	01.06.1	1300	WATER	HNO3	1 - 500 mL POLY	X																							SUBSURFACE TOOL RINSATE
SL-137-SA5B-SS-0.0-0.5	01.06.1	1058	SOIL	NONE	1-16 oz. jar & 1-6" sleeve	X	X	X	X	X	X	X		X	X														
SL-063-SA5B-SB-3.0-4.0	01.06.1	1207	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-063-SA5B-SB-3.5	01.06.1	1205	SOIL	NONE	5 ENCORES											X	X	X											
SL-066-SA5B-SB-3.0-4.0MS	01.06.1	0938	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X																	MS/MSD
SL-066-SA5B-SB-3.5MS	01.06.1	0933	SOIL	NONE	12 ENCORES											X	X												MS/MSD
DUP18-SA5B-QC-010611	01.06.1	0940	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	FIELD DUPLICATE #1
DUP18-SA5B-QC-010611	01.06.1	0940	SOIL	NONE	4 ENCORES											X	X												FIELD DUPLICATE #1
SL-058-SA5B-SB-4.5	01.06.1	1543	SOIL	NONE	4 ENCORES											X	X												
SL-058-SA5B-SB-4.0-5.0	01.06.1	1547	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X												
SL-051-SA5B-SB-3.5	01.06.1	1440	SOIL	NONE	5 ENCORES											X	X	X											
SL-051-SA5B-SB-3.0-4.0	01.06.1	1445	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-050-SA5B-SB-3.5	01.06.1	1540	SOIL	NONE	5 ENCORES											X	X	X											
SL-050-SA5B-SB-3.0-4.0	01.06.1	1544	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X																	
TB-010611	01.06.1	1230	WATER	HCl	4-40 mL VOA VIALS											X	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	1/6/2011, 16:20		1/7/11 900
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 2810, ...2821	

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/08/2011
Group Number: 1228357
SDG: DE055
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-059-SA5B-SB-4.0-5.0 Soil	6180105
SL-059-SA5B-SB-8.5-9.5 Soil	6180106
SL-060-SA5B-SB-4.0-5.0 Soil	6180107
SL-060-SA5B-SB-9.0-10.0 Soil	6180108
EB19-SA5B-010711 Water	6180109
SL-055-SA5B-SB-4.0-5.0 Soil	6180110
SL-055-SA5B-SB-8.5-9.5 Soil	6180111
SL-062-SA5B-SB-4.0-5.0 Soil	6180112
SL-062-SA5B-SB-9.0-10.0 Soil	6180113
SL-056-SA5B-SB-4.0-5.0 Soil	6180114
SL-056-SA5B-SB-9.0-10.0 Soil	6180115
SL-061-SA5B-SB-3.5-4.5 Soil	6180116
SL-234-SA5B-SB-2.5-3.5 Soil	6180117
TB-010711 Water	6180118

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-059-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180105
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5501 SDG#: DE055-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.02
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.02
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.02
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.02
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1.02
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.02
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.02
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.02
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1.02
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.02
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.02
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.02
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.02
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1.02
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.02
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.02
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.02
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.02
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		1.02
06192	Methylene Chloride	75-09-2	0.79	J	0.26	4.4		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.02

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180105
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5501 SDG#: DE055-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.02
06192	Toluene	108-88-3	0.09	J	0.09	4.4		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		1.02
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1.02
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.9	U	5.9	18		27.29
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-059-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180105
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5501 SDG#: DE055-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.95	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.8	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.78	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-059-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180105
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5501 SDG#: DE055-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.99	J	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	15		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.35	21.3		1
07914	Boron	7440-42-8	0.946	U	0.946	5.32		1
01650	Calcium	7440-70-2	7,600		6.52	21.3		1
01654	Iron	7439-89-6	20,200		5.01	21.3		1
01656	Lithium	7439-93-2	28.3		0.23	2.1		1
01657	Magnesium	7439-95-4	5,420		2.70	10.6		1
06958	Manganese	7439-96-5	310		0.0830	0.532		1
10145	Phosphorus	7723-14-0	402		0.596	10.6		1
01662	Potassium	7440-09-7	3,180		19.1	53.2		1
01667	Sodium	7440-23-5	195		39.7	106		1
07968	Strontium	7440-24-6	18.2		0.0659	0.532		1
06969	Tin	7440-31-5	2.35	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,300		0.404	1.06		1
10146	Zirconium	7440-67-7	0.924	J	0.893	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.208		0.0620	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.40		0.0620	0.413		2
06126	Barium	7440-39-3	90.5		0.112	0.413		2
06127	Beryllium	7440-41-7	0.535		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.195		0.0372	0.103		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-059-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180105
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5501 SDG#: DE055-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	19.9		0.124	0.413		2
06132	Cobalt	7440-48-4	5.25		0.0207	0.103		2
06133	Copper	7440-50-8	8.01		0.0682	0.413		2
06135	Lead	7439-92-1	5.47		0.0107	0.207		2
06138	Molybdenum	7439-98-7	0.469		0.0516	0.103		2
06139	Nickel	7440-02-0	11.1		0.103	0.413		2
06141	Selenium	7782-49-2	0.114	J	0.0413	0.413		2
06142	Silver	7440-22-4	0.0173	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.291		0.0310	0.103		2
06148	Vanadium	7440-62-2	36.5		0.0227	0.103		2
06149	Zinc	7440-66-6	78.6		0.578	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0601	J	0.0028	0.0993		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	356		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	10.8		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-059-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-059-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180105
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5501 SDG#: DE055-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 17:31	Laura M Krieger	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110111AA	01/11/2011 12:54	Jason M Long	27.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100823465	01/08/2011 12:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100823465	01/08/2011 12:50	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 14:15	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 11:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 01:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 11:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 11:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 07:41	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 16:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 16:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 16:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-059-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180105
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5501 SDG#: DE055-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 16:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 05:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 03:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 17:43	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180106
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5502 SDG#: DE055-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180106
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5502 SDG#: DE055-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.60	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	5.2		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.6		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	9.7		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.4		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.7		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	8.4		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.6	20		1
10138	Fluoranthene	206-44-0	6.0		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.9		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.75	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	3.4		0.73	1.8		1
10138	Pyrene	129-00-0	5.3		0.73	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(k)fluoranthene

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.9		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	29		0.36	1.9		1
10225	PCB-1254	11097-69-1	12		0.36	1.9		1
10225	PCB-1260	11096-82-5	2.1		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180106
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5502 SDG#: DE055-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.50	21.9		1
07914	Boron	7440-42-8	3.02	J	0.974	5.47		1
01650	Calcium	7440-70-2	4,340		6.71	21.9		1
01654	Iron	7439-89-6	18,700		5.15	21.9		1
01656	Lithium	7439-93-2	26.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,390		2.78	10.9		1
06958	Manganese	7439-96-5	283		0.0853	0.547		1
10145	Phosphorus	7723-14-0	379		0.613	10.9		1
01662	Potassium	7440-09-7	3,030		19.7	54.7		1
01667	Sodium	7440-23-5	192		40.8	109		1
07968	Strontium	7440-24-6	17.4		0.0678	0.547		1
06969	Tin	7440-31-5	2.36	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,270		0.416	1.09		1
10146	Zirconium	7440-67-7	1.04	J	0.919	5.47		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.192	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.42		0.0650	0.433		2
06126	Barium	7440-39-3	115		0.117	0.433		2
06127	Beryllium	7440-41-7	0.641		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.196		0.0390	0.108		2
06131	Chromium	7440-47-3	27.8		0.130	0.433		2
06132	Cobalt	7440-48-4	6.49		0.0217	0.108		2
06133	Copper	7440-50-8	10.0		0.0715	0.433		2
06135	Lead	7439-92-1	6.77		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.579		0.0542	0.108		2
06139	Nickel	7440-02-0	15.2		0.108	0.433		2
06141	Selenium	7782-49-2	0.115	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0280	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.318		0.0325	0.108		2
06148	Vanadium	7440-62-2	44.0		0.0238	0.108		2
06149	Zinc	7440-66-6	92.2		0.607	3.25		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0363	J	0.0031	0.108		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.88	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180106
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5502 SDG#: DE055-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	356		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	8.6		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 14:49	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 11:39	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 01:27	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 11:26	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 11:26	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180106
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5502 SDG#: DE055-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:06	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 16:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 16:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 16:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 16:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 06:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 04:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 17:49	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101A	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401A	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180107
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5503 SDG#: DE055-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6		0.85
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.85
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.85
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.85
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.85
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.85
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.85
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.85
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.85
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.85
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.85
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.85
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.85
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.85
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.85
06192	Methylene Chloride	75-09-2	0.54	J	0.23	3.8		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.85

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Sample Description: SL-060-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180107
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5503 SDG#: DE055-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.85
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.08
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-060-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180107
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5503 SDG#: DE055-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.90	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.59	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

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Sample Description: **SL-060-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180107
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5503 SDG#: DE055-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	3.1		0.37	1.9		1
10225	PCB-1254	11097-69-1	1.1	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		5.49	21.8		1
07914	Boron	7440-42-8	6.14		0.971	5.45		1
01650	Calcium	7440-70-2	33,700		6.68	21.8		1
01654	Iron	7439-89-6	28,500		5.14	21.8		1
01656	Lithium	7439-93-2	31.8		0.24	2.2		1
01657	Magnesium	7439-95-4	7,710		2.77	10.9		1
06958	Manganese	7439-96-5	337		0.0851	0.545		1
10145	Phosphorus	7723-14-0	551		0.611	10.9		1
01662	Potassium	7440-09-7	4,920		19.6	54.5		1
01667	Sodium	7440-23-5	193		40.7	109		1
07968	Strontium	7440-24-6	63.6		0.0676	0.545		1
06969	Tin	7440-31-5	2.41	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,480		0.414	1.09		1
10146	Zirconium	7440-67-7	1.97	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.38		0.0654	0.436		2
06126	Barium	7440-39-3	109		0.118	0.436		2
06127	Beryllium	7440-41-7	0.723		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.282		0.0393	0.109		2
06131	Chromium	7440-47-3	31.3		0.131	0.436		2
06132	Cobalt	7440-48-4	7.57		0.0218	0.109		2
06133	Copper	7440-50-8	11.7		0.0720	0.436		2

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Sample Description: SL-060-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180107
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5503 SDG#: DE055-03

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	8.34		0.0113	0.218		2
06138	Molybdenum		7439-98-7	0.485		0.0545	0.109		2
06139	Nickel		7440-02-0	15.6		0.109	0.436		2
06141	Selenium		7782-49-2	0.190	J	0.0436	0.436		2
06142	Silver		7440-22-4	0.0233	J	0.0131	0.109		2
06145	Thallium		7440-28-0	0.369		0.0327	0.109		2
06148	Vanadium		7440-62-2	61.9		0.0240	0.109		2
06149	Zinc		7440-66-6	78.2		0.611	3.27		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0163	J	0.0030	0.104		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.5		0.89	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.0	U	10.0	33.4		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	450		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.92		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	10.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-060-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-060-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180107
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5503 SDG#: DE055-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 17:53	Laura M Krieger	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110111AA	01/11/2011 13:13	Jason M Long	22.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100823465	01/08/2011 12:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100823465	01/08/2011 12:53	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 15:24	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 12:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 01:45	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 11:29	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 11:29	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 16:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 16:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 16:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-060-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180107
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5503 SDG#: DE055-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 16:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203A	01/21/2011 06:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201A	01/19/2011 04:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 18:01	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203A	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201A	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180108
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5504 SDG#: DE055-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-060-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180108
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5504 SDG#: DE055-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.8		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.97	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	3.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.5	19		1
10138	Fluoranthene	206-44-0	3.2		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	1.5	J	0.72	1.8		1
10138	Pyrene	129-00-0	2.7		0.72	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(k)fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	37		0.36	1.8		1
10225	PCB-1254	11097-69-1	8.6		0.36	1.8		1
10225	PCB-1260	11096-82-5	1.3	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

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Sample Description: **SL-060-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180108
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5504 SDG#: DE055-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.17	20.5		1
07914	Boron	7440-42-8	4.28	J	0.914	5.14		1
01650	Calcium	7440-70-2	7,350		6.30	20.5		1
01654	Iron	7439-89-6	24,100		4.84	20.5		1
01656	Lithium	7439-93-2	32.2		0.23	2.1		1
01657	Magnesium	7439-95-4	6,280		2.61	10.3		1
06958	Manganese	7439-96-5	341		0.0801	0.514		1
10145	Phosphorus	7723-14-0	447		0.575	10.3		1
01662	Potassium	7440-09-7	3,360		18.5	51.4		1
01667	Sodium	7440-23-5	254		38.3	103		1
07968	Strontium	7440-24-6	28.4		0.0637	0.514		1
06969	Tin	7440-31-5	2.49	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,370		0.390	1.03		1
10146	Zirconium	7440-67-7	1.05	J	0.863	5.14		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.337		0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.66		0.0647	0.431		2
06126	Barium	7440-39-3	103		0.117	0.431		2
06127	Beryllium	7440-41-7	0.607		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.174		0.0388	0.108		2
06131	Chromium	7440-47-3	29.0		0.129	0.431		2
06132	Cobalt	7440-48-4	6.24		0.0216	0.108		2
06133	Copper	7440-50-8	8.94		0.0712	0.431		2
06135	Lead	7439-92-1	6.33		0.0112	0.216		2
06138	Molybdenum	7439-98-7	1.67		0.0539	0.108		2
06139	Nickel	7440-02-0	12.2		0.108	0.431		2
06141	Selenium	7782-49-2	0.122	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0322	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.324		0.0324	0.108		2
06148	Vanadium	7440-62-2	42.9		0.0237	0.108		2
06149	Zinc	7440-66-6	95.6		0.604	3.24		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0520	J	0.0029	0.103		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.86	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180108
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5504 SDG#: DE055-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	407		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	9.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 15:59	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 12:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 02:04	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 11:39	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/19/2011 13:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-060-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180108
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5504 SDG#: DE055-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 16:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 16:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 16:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 16:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 07:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 18:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 18:20	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB19-SA5B-010711 Water**
SSFL Area IV Collocated Soil Sampling
EB19-SA5B-010711

LLI Sample # WW 6180109
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:30

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5505 SDG#: DE055-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.99		0.535	1.07		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of .548 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.							
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. Sufficient sample was unavailable to repeat the analysis.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.72	U	0.72	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.6	U	1.6	1.6	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	The LCSD recovery for 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB19-SA5B-010711 Water**
SSFL Area IV Collocated Soil Sampling
EB19-SA5B-010711

LLI Sample # WW 6180109
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:30

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5505 SDG#: DE055-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
	is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	17b Formaldehyde by 8315A	50-00-0	17	J	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.66		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.66		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.66		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.66		1
10365	EFH (C8-C11)	n.a.	0.11	U	0.11	0.66		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
	The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction.							
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.091	U	0.091	0.28		1
10319	o-Terphenyl	84-15-1	0.091	U	0.091	0.28		1
10319	p-Terphenyl	92-94-4	0.091	U	0.091	0.28		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	21b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	6.5		0.010	0.010		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB19-SA5B-010711 Water**
SSFL Area IV Collocated Soil Sampling
EB19-SA5B-010711

LLI Sample # WW 6180109
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:30

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5505 SDG#: DE055-05EB

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	19b NDMA by 1625C	EPA 1625C	1	11011WAG026	01/20/2011 06:37	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11011WAG026	01/11/2011 23:40	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11012A20A	01/12/2011 20:35	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11012A20A	01/12/2011 20:35	Tyler O Griffin	1
10131	20b Energetics by 8330A	SW-846 8330A	1	110120003A	01/13/2011 01:49	James H Place	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	110100003A	01/11/2011 15:33	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110100003A	01/10/2011 12:45	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	110120003A	01/12/2011 14:15	Kerrie A Freeburn	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110120010A	01/13/2011 16:15	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	110130021A	01/13/2011 18:26	Dustin A Underkoffler	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	110170024A	01/17/2011 18:47	Dustin A Underkoffler	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	110120008A	01/14/2011 15:04	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	110120010A	01/12/2011 13:45	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	110120008A	01/12/2011 13:45	Kathryn I DeHaven	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11008196904A	01/08/2011 14:55	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	11012117101B	01/13/2011 10:14	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11012117101B	01/12/2011 11:30	Nancy J Shoop	1
00200	22b pH by 9040B	SW-846 9040B	1	11011020001B	01/11/2011 17:10	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180110
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5506 SDG#: DE055-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.94
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.94
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.94
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.94
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.94
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.94
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.94
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.94
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.94
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.94
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.94
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.94
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.94
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.94
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.94
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.94
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.94
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.94
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.94
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.94
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.94
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.94
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.94
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.94
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.94
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.94
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.94
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.94
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.94
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.94
06192	Methylene Chloride	75-09-2	0.39	J	0.24	4.0		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.94

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-055-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180110
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5506 SDG#: DE055-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.94
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.94
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.94
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.94
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.94
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.94
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.54
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	18	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	19	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1

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Sample Description: **SL-055-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180110
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5506 SDG#: DE055-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.8		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38		6.5	19		1
10138	Fluoranthene	206-44-0	0.87	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1

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Sample Description: **SL-055-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180110
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5506 SDG#: DE055-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	1.0	J	0.72	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(k)fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	17		0.36	1.8		1
10225	PCB-1254	11097-69-1	12		0.36	1.8		1
10225	PCB-1260	11096-82-5	1.6	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.27	20.9		1
07914	Boron	7440-42-8	0.932	U	0.932	5.24		1
01650	Calcium	7440-70-2	6,320		6.42	20.9		1
01654	Iron	7439-89-6	21,600		4.93	20.9		1
01656	Lithium	7439-93-2	27.8		0.23	2.1		1
01657	Magnesium	7439-95-4	5,340		2.66	10.5		1
06958	Manganese	7439-96-5	298		0.0817	0.524		1
10145	Phosphorus	7723-14-0	426		0.587	10.5		1
01662	Potassium	7440-09-7	3,270		18.9	52.4		1
01667	Sodium	7440-23-5	220		39.1	105		1
07968	Strontium	7440-24-6	22.1		0.0649	0.524		1
06969	Tin	7440-31-5	2.27	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,380		0.398	1.05		1
10146	Zirconium	7440-67-7	0.880	U	0.880	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.184	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.83		0.0647	0.431		2
06126	Barium	7440-39-3	111		0.117	0.431		2

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Sample Description: SL-055-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180110
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5506 SDG#: DE055-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.639		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.217		0.0388	0.108		2
06131	Chromium	7440-47-3	24.3		0.129	0.431		2
06132	Cobalt	7440-48-4	6.53		0.0216	0.108		2
06133	Copper	7440-50-8	9.94		0.0712	0.431		2
06135	Lead	7439-92-1	7.25		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.828		0.0539	0.108		2
06139	Nickel	7440-02-0	13.3		0.108	0.431		2
06141	Selenium	7782-49-2	0.150	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0355	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.321		0.0324	0.108		2
06148	Vanadium	7440-62-2	43.7		0.0237	0.108		2
06149	Zinc	7440-66-6	98.8		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0657	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	402		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-055-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180110
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5506 SDG#: DE055-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-055-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 18:15	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110111AA	01/11/2011 13:33	Jason M Long	23.54
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100823465	01/08/2011 12:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100823465	01/08/2011 12:56	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 16:34	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 13:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 02:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 11:43	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 11:43	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:25	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 16:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-055-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180110
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5506 SDG#: DE055-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 16:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 16:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 16:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 07:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11018018201B	01/24/2011 16:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 18:32	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201B	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5B-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180111
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5507 SDG#: DE055-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-055-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180111
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5507 SDG#: DE055-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.7	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.6	20		1
10138	Fluoranthene	206-44-0	1.6	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.4	J	0.73	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(k)fluoranthene							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	41		0.36	1.9		1
10225	PCB-1254	11097-69-1	8.7		0.36	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5B-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180111
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5507 SDG#: DE055-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	2.2		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		5.52	21.9		1
07914	Boron	7440-42-8	0.976	U	0.976	5.48		1
01650	Calcium	7440-70-2	5,660		6.72	21.9		1
01654	Iron	7439-89-6	19,400		5.16	21.9		1
01656	Lithium	7439-93-2	23.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,940		2.79	11.0		1
06958	Manganese	7439-96-5	294		0.0855	0.548		1
10145	Phosphorus	7723-14-0	402		0.614	11.0		1
01662	Potassium	7440-09-7	2,900		19.7	54.8		1
01667	Sodium	7440-23-5	167		40.9	110		1
07968	Strontium	7440-24-6	21.0		0.0680	0.548		1
06969	Tin	7440-31-5	2.38	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,170		0.417	1.10		1
10146	Zirconium	7440-67-7	1.61	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.69		0.0627	0.418		2
06126	Barium	7440-39-3	102		0.113	0.418		2
06127	Beryllium	7440-41-7	0.650		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.207		0.0376	0.104		2
06131	Chromium	7440-47-3	20.5		0.125	0.418		2
06132	Cobalt	7440-48-4	6.04		0.0209	0.104		2
06133	Copper	7440-50-8	9.60		0.0689	0.418		2
06135	Lead	7439-92-1	7.80		0.0109	0.209		2
06138	Molybdenum	7439-98-7	1.06		0.0522	0.104		2
06139	Nickel	7440-02-0	12.2		0.104	0.418		2
06141	Selenium	7782-49-2	0.117	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.0319	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.329		0.0313	0.104		2
06148	Vanadium	7440-62-2	37.1		0.0230	0.104		2
06149	Zinc	7440-66-6	89.0		0.585	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0158	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-055-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180111
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5507 SDG#: DE055-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.24	J	0.22	1.1		1
	ASTM D1498			**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	391		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
	SW-846 9045C modified			**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	9.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011	17:08	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011	13:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011	21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011	21:15	Karen L Beyer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011	15:58	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011	02:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011	16:50	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011	09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011	08:30	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011	11:46	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-055-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180111
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5507 SDG#: DE055-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 11:46	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 17:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 17:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 17:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 17:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 08:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201B	01/19/2011 06:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 18:45	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201B	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-062-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180112
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5508 SDG#: DE055-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.7		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.12	U	0.12	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.9		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.87
06192	Methylene Chloride	75-09-2	0.83	J	0.23	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180112
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5508 SDG#: DE055-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.87
06192	Toluene	108-88-3	0.10	J	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.0	U	6.0	18		26.94
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180112
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5508 SDG#: DE055-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.89	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.68	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

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Sample Description: SL-062-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180112
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5508 SDG#: DE055-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	3.3		0.36	1.9		1
10225	PCB-1254	11097-69-1	2.2		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.65	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

The surrogate data is outside the project limits but within Lancaster Laboratory's limits. The sample results are reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.50	21.9		1
07914	Boron	7440-42-8	4.46	J	0.974	5.47		1
01650	Calcium	7440-70-2	22,000		6.71	21.9		1
01654	Iron	7439-89-6	26,400		5.15	21.9		1
01656	Lithium	7439-93-2	29.1		0.24	2.2		1
01657	Magnesium	7439-95-4	7,020		2.78	10.9		1
06958	Manganese	7439-96-5	328		0.0853	0.547		1
10145	Phosphorus	7723-14-0	518		0.613	10.9		1
01662	Potassium	7440-09-7	4,650		19.7	54.7		1
01667	Sodium	7440-23-5	197		40.8	109		1
07968	Strontium	7440-24-6	48.1		0.0678	0.547		1
06969	Tin	7440-31-5	2.34	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,350		0.416	1.09		1
10146	Zirconium	7440-67-7	1.39	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.243		0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.28		0.0644	0.429		2
06126	Barium	7440-39-3	136		0.116	0.429		2
06127	Beryllium	7440-41-7	0.874		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.343		0.0386	0.107		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180112
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5508 SDG#: DE055-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	38.1	0.129	0.429		2
06132	Cobalt	7440-48-4	9.55	0.0215	0.107		2
06133	Copper	7440-50-8	15.1	0.0708	0.429		2
06135	Lead	7439-92-1	10.3	0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.783	0.0536	0.107		2
06139	Nickel	7440-02-0	19.3	0.107	0.429		2
06141	Selenium	7782-49-2	0.270 J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0330 J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.468	0.0322	0.107		2
06148	Vanadium	7440-62-2	71.0	0.0236	0.107		2
06149	Zinc	7440-66-6	104	0.601	3.22		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0349 J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	425	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.34	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-062-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-062-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180112
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5508 SDG#: DE055-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 18:38	Laura M Krieger	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110111AA	01/11/2011 13:52	Jason M Long	26.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100823465	01/08/2011 12:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100823465	01/08/2011 12:59	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 21:17	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 14:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 02:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 11:50	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 11:50	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 17:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 17:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 17:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-062-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180112
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5508 SDG#: DE055-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 17:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 08:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201B	01/19/2011 06:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 19:04	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201B	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-062-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180113
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5509 SDG#: DE055-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180113
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5509 SDG#: DE055-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.3		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.8		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.1		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	3.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.5	20		1
10138	Fluoranthene	206-44-0	3.5		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.92	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.78	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	1.3	J	0.72	1.8		1
10138	Pyrene	129-00-0	3.6		0.72	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(k)fluoranthene

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	14		0.36	1.8		1
10225	PCB-1254	11097-69-1	3.8		0.36	1.8		1
10225	PCB-1260	11096-82-5	1.5	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-062-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180113
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5509 SDG#: DE055-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.29	21.0		1
07914	Boron	7440-42-8	5.74		0.936	5.26		1
01650	Calcium	7440-70-2	4,980		6.45	21.0		1
01654	Iron	7439-89-6	22,700		4.95	21.0		1
01656	Lithium	7439-93-2	25.8		0.23	2.1		1
01657	Magnesium	7439-95-4	6,560		2.67	10.5		1
06958	Manganese	7439-96-5	252		0.0820	0.526		1
10145	Phosphorus	7723-14-0	503		0.589	10.5		1
01662	Potassium	7440-09-7	3,010		18.9	52.6		1
01667	Sodium	7440-23-5	232		39.2	105		1
07968	Strontium	7440-24-6	20.6		0.0652	0.526		1
06969	Tin	7440-31-5	2.25	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,560		0.400	1.05		1
10146	Zirconium	7440-67-7	0.884	U	0.884	5.26		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.164	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.49		0.0637	0.425		2
06126	Barium	7440-39-3	117		0.115	0.425		2
06127	Beryllium	7440-41-7	0.688		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.117		0.0382	0.106		2
06131	Chromium	7440-47-3	24.6		0.127	0.425		2
06132	Cobalt	7440-48-4	7.34		0.0212	0.106		2
06133	Copper	7440-50-8	10.2		0.0701	0.425		2
06135	Lead	7439-92-1	12.9		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.669		0.0531	0.106		2
06139	Nickel	7440-02-0	12.3		0.106	0.425		2
06141	Selenium	7782-49-2	0.179	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0127	U	0.0127	0.106		2
06145	Thallium	7440-28-0	0.358		0.0319	0.106		2
06148	Vanadium	7440-62-2	44.8		0.0234	0.106		2
06149	Zinc	7440-66-6	85.0		0.595	3.19		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105	J	0.0031	0.107		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.87	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180113
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5509 SDG#: DE055-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	391		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.86		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	7.7		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 21:52	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 14:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 03:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 11:53	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/19/2011 13:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-062-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180113
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5509 SDG#: DE055-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 17:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 17:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 17:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 17:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 08:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201B	01/19/2011 07:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11023243201A	01/27/2011 19:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201B	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-056-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180114
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5510 SDG#: DE055-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.3		0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.96
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.96
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.96
06192	Methylene Chloride	75-09-2	0.63	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180114
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5510 SDG#: DE055-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		23.23
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-056-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180114
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5510 SDG#: DE055-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.0		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	3.4		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	J	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.5	20		1
10138	Fluoranthene	206-44-0	0.97	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1

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Sample Description: **SL-056-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180114
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5510 SDG#: DE055-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	1.3	J	0.72	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(k)fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	16		0.36	1.8		1
10225	PCB-1254	11097-69-1	7.4		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.29	21.0		1
07914	Boron	7440-42-8	0.936	U	0.936	5.26		1
01650	Calcium	7440-70-2	5,150		6.45	21.0		1
01654	Iron	7439-89-6	21,400		4.95	21.0		1
01656	Lithium	7439-93-2	28.0		0.23	2.1		1
01657	Magnesium	7439-95-4	5,290		2.67	10.5		1
06958	Manganese	7439-96-5	285		0.0820	0.526		1
10145	Phosphorus	7723-14-0	395		0.589	10.5		1
01662	Potassium	7440-09-7	3,020		18.9	52.6		1
01667	Sodium	7440-23-5	204		39.2	105		1
07968	Strontium	7440-24-6	19.4		0.0652	0.526		1
06969	Tin	7440-31-5	2.28	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,220		0.400	1.05		1
10146	Zirconium	7440-67-7	0.884	U	0.884	5.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.57		0.0650	0.433		2
06126	Barium	7440-39-3	111		0.117	0.433		2

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Sample Description: SL-056-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180114
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5510 SDG#: DE055-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.627		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.242		0.0390	0.108		2
06131	Chromium	7440-47-3	23.1		0.130	0.433		2
06132	Cobalt	7440-48-4	6.85		0.0217	0.108		2
06133	Copper	7440-50-8	10.3		0.0715	0.433		2
06135	Lead	7439-92-1	7.05		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.805		0.0542	0.108		2
06139	Nickel	7440-02-0	14.1		0.108	0.433		2
06141	Selenium	7782-49-2	0.150	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.192		0.0130	0.108		2
06145	Thallium	7440-28-0	0.358		0.0325	0.108		2
06148	Vanadium	7440-62-2	43.6		0.0238	0.108		2
06149	Zinc	7440-66-6	99.2		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0768	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	397		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.89		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-056-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180114
LLI Group # 1228357
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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E5510 SDG#: DE055-10

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-056-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 19:00	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110111AA	01/11/2011 14:12	Jason M Long	23.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100823465	01/08/2011 13:01	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 22:26	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 15:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 04:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 11:57	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 11:57	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 17:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2

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Sample Description: **SL-056-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180114
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5510 SDG#: DE055-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 17:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 17:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 17:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 08:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201B	01/19/2011 07:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 19:28	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201B	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-9.0-10.0

LLI Sample # SW 6180115
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:53

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5511 SDG#: DE055-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-9.0-10.0

LLI Sample # SW 6180115
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:53

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5511 SDG#: DE055-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	3.0		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.6	20		1
10138	Fluoranthene	206-44-0	2.1		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.73	1.8		1
10138	Pyrene	129-00-0	2.5		0.73	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(k)fluoranthene

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	40		0.36	1.9		1
10225	PCB-1254	11097-69-1	7.9		0.36	1.9		1
10225	PCB-1260	11096-82-5	3.0		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-9.0-10.0

LLI Sample # SW 6180115
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:53

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5511 SDG#: DE055-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.39	21.4		1
07914	Boron	7440-42-8	4.91	J	0.954	5.36		1
01650	Calcium	7440-70-2	6,580		6.57	21.4		1
01654	Iron	7439-89-6	21,900		5.05	21.4		1
01656	Lithium	7439-93-2	26.9		0.24	2.1		1
01657	Magnesium	7439-95-4	5,940		2.72	10.7		1
06958	Manganese	7439-96-5	290		0.0836	0.536		1
10145	Phosphorus	7723-14-0	439		0.600	10.7		1
01662	Potassium	7440-09-7	3,300		19.3	53.6		1
01667	Sodium	7440-23-5	235		40.0	107		1
07968	Strontium	7440-24-6	23.8		0.0664	0.536		1
06969	Tin	7440-31-5	2.46	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,290		0.407	1.07		1
10146	Zirconium	7440-67-7	1.13	J	0.900	5.36		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.448		0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.27		0.0649	0.433		2
06126	Barium	7440-39-3	114		0.117	0.433		2
06127	Beryllium	7440-41-7	0.664		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.422		0.0390	0.108		2
06131	Chromium	7440-47-3	23.8		0.130	0.433		2
06132	Cobalt	7440-48-4	6.80		0.0216	0.108		2
06133	Copper	7440-50-8	10.5		0.0714	0.433		2
06135	Lead	7439-92-1	32.0		0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.784		0.0541	0.108		2
06139	Nickel	7440-02-0	13.0		0.108	0.433		2
06141	Selenium	7782-49-2	0.132	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0311	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.342		0.0325	0.108		2
06148	Vanadium	7440-62-2	44.4		0.0238	0.108		2
06149	Zinc	7440-66-6	94.6		0.606	3.25		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0207	J	0.0029	0.103		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.87	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Analysis Report

Sample Description: SL-056-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-9.0-10.0

LLI Sample # SW 6180115
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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E5511 SDG#: DE055-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	370		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	8.5		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 23:01	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 15:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/25/2011 23:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110170028A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 12:00	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/19/2011 13:39	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1

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E5511 SDG#: DE055-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 17:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 17:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 17:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 17:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 08:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201B	01/19/2011 07:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 19:41	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201B	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-061-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180116
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5512 SDG#: DE055-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.6		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.04
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.04
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.04
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.04
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.04
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		1.04
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.04
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.6		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.04
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.04
06192	Methylene Chloride	75-09-2	0.91	J	0.27	4.6		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.04

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Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180116
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5512 SDG#: DE055-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.04
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.6		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.04
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		1.04
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.26
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180116
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5512 SDG#: DE055-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.95	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.5		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	2.1		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

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Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180116
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5512 SDG#: DE055-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.99	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.8	J	0.73	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(k)fluoranthene							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	2.8		0.36	1.9		1
10225	PCB-1254	11097-69-1	2.7		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.80	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.38	21.4		1
07914	Boron	7440-42-8	0.952	U	0.952	5.35		1
01650	Calcium	7440-70-2	6,810		6.55	21.4		1
01654	Iron	7439-89-6	19,900		5.04	21.4		1
01656	Lithium	7439-93-2	26.2		0.24	2.1		1
01657	Magnesium	7439-95-4	5,210		2.72	10.7		1
06958	Manganese	7439-96-5	274		0.0834	0.535		1
10145	Phosphorus	7723-14-0	384		0.599	10.7		1
01662	Potassium	7440-09-7	3,060		19.2	53.5		1
01667	Sodium	7440-23-5	188		39.9	107		1
07968	Strontium	7440-24-6	21.1		0.0663	0.535		1
06969	Tin	7440-31-5	2.35	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,170		0.406	1.07		1
10146	Zirconium	7440-67-7	0.939	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.218		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.74		0.0648	0.432		2
06126	Barium	7440-39-3	116		0.117	0.432		2

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Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180116
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5512 SDG#: DE055-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.472	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.132	0.0389	0.108		2
06131	Chromium	7440-47-3	20.9	0.130	0.432		2
06132	Cobalt	7440-48-4	6.03	0.0216	0.108		2
06133	Copper	7440-50-8	9.60	0.0713	0.432		2
06135	Lead	7439-92-1	5.13	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.725	0.0540	0.108		2
06139	Nickel	7440-02-0	11.4	0.108	0.432		2
06141	Selenium	7782-49-2	0.151 J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0189 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.257	0.0324	0.108		2
06148	Vanadium	7440-62-2	38.0	0.0238	0.108		2
06149	Zinc	7440-66-6	69.3	0.605	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0355 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.8	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	402	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.81	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180116
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5512 SDG#: DE055-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-061-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 19:23	Laura M Krieger	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110111AA	01/11/2011 14:31	Jason M Long	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100823465	01/08/2011 13:04	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/21/2011 23:35	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 16:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 05:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 12:03	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 12:03	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 17:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-061-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180116
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5512 SDG#: DE055-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 17:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 17:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 17:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 09:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201B	01/19/2011 08:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 19:53	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201B	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-234-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180117
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5513 SDG#: DE055-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.96
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.96
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.96
06192	Methylene Chloride	75-09-2	0.48	J	0.26	4.3		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180117
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5513 SDG#: DE055-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		19.59
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-234-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180117
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5513 SDG#: DE055-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180117
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5513 SDG#: DE055-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.31	21.1		1
07914	Boron	7440-42-8	0.939	U	0.939	5.27		1
01650	Calcium	7440-70-2	2,580		6.47	21.1		1
01654	Iron	7439-89-6	19,400		4.97	21.1		1
01656	Lithium	7439-93-2	20.3		0.23	2.1		1
01657	Magnesium	7439-95-4	5,490		2.68	10.5		1
06958	Manganese	7439-96-5	250		0.0823	0.527		1
10145	Phosphorus	7723-14-0	371		0.591	10.5		1
01662	Potassium	7440-09-7	2,820		19.0	52.7		1
01667	Sodium	7440-23-5	164		39.3	105		1
07968	Strontium	7440-24-6	18.4		0.0654	0.527		1
06969	Tin	7440-31-5	1.98	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,420		0.401	1.05		1
10146	Zirconium	7440-67-7	0.886	U	0.886	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0805	J	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.43		0.0651	0.434		2
06126	Barium	7440-39-3	125		0.117	0.434		2
06127	Beryllium	7440-41-7	0.572		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0575	J	0.0391	0.109		2
06131	Chromium	7440-47-3	19.7		0.130	0.434		2
06132	Cobalt	7440-48-4	6.11		0.0217	0.109		2
06133	Copper	7440-50-8	6.53		0.0717	0.434		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-234-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180117
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5513 SDG#: DE055-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	4.25		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.591		0.0543	0.109		2
06139	Nickel	7440-02-0	9.48		0.109	0.434		2
06141	Selenium	7782-49-2	0.0852	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0187	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.299		0.0326	0.109		2
06148	Vanadium	7440-62-2	38.7		0.0239	0.109		2
06149	Zinc	7440-66-6	67.1		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	426		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-234-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-234-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180117
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5513 SDG#: DE055-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 19:45	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110111AA	01/11/2011 14:51	Jason M Long	19.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:06	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100823465	01/08/2011 13:10	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100823465	01/08/2011 13:07	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11010SLB026	01/22/2011 00:10	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11011SLA026	01/17/2011 17:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11011SLA026	01/11/2011 21:00	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11010SLB026	01/10/2011 21:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110100012A	01/15/2011 05:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110100012A	01/10/2011 16:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110105708002	01/18/2011 12:07	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110105708002	01/18/2011 12:07	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110105708002	01/17/2011 08:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110101026001D	01/12/2011 17:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110101026001C	01/12/2011 17:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110101026001B	01/12/2011 17:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-234-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180117
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5513 SDG#: DE055-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110101026001A	01/12/2011 17:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110105711002	01/12/2011 06:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110105708002	01/11/2011 19:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110101026001	01/11/2011 19:09	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110105711002	01/11/2011 22:30	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11020020203B	01/21/2011 09:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11018018201B	01/19/2011 08:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11023243201A	01/27/2011 20:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11020020203B	01/20/2011 14:20	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11018018201B	01/18/2011 12:05	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11010182101B	01/10/2011 08:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11010039401B	01/10/2011 08:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11023243201A	01/23/2011 05:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-010711 Water**
SSFL Area IV Collocated Soil Sampling
TB-010711

LLI Sample # WW 6180118
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 08:00

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5514 SDG#: DE055-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-010711 Water
SSFL Area IV Collocated Soil Sampling
TB-010711

LLI Sample # WW 6180118
LLI Group # 1228357
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 08:00

Submitted: 01/08/2011 10:00
Reported: 02/04/2011 15:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5514 SDG#: DE055-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110101AA	01/10/2011 15:24	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110101AA	01/10/2011 14:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110101AA	01/10/2011 14:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110101AA	01/10/2011 15:24	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110113AA	Sample number(s): 6180105,6180107,6180110,6180112,6180114,6180116-6180117									
Acetone	6.7	U	6.7	8.0	ug/kg	139	138	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	101	99	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93	93	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	102	99	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93	92	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	97	97	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	68	67	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	110	111	46-153	0	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	95	93	72-120	3	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	94	92	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	90	89	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	98	69-122	5	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	96	80-120	3	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	83	80	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	91	94	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	100	97	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	73	77	54-132	5	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94	93	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94	93	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	137*	145*	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	86	89	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98	95	77-120	3	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97	98	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	97	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97	94	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	93	93	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	94	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	62	59	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99	97	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97	96	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	97	73-123	4	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	100	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103	100	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96	95	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	94	95	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	98	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	95	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	86	86	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86	87	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96	94	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	102	98	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	87	87	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	93	90	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	76	78	45-155	3	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	96	93	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	95	93	75-120	2	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	95	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	71	71	61-134	0	30
Methylene Chloride	0.63	J	0.24	4.0	ug/kg	92	90	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	97	95	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	96	95	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100	99	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92	93	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106	103	77-120	3	30
Toluene	0.18	J	0.08	4.0	ug/kg	100	98	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	89	90	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	84	85	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	99	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	97	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	96	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	82	79	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92	96	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	94	94	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	94	93	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	74	73	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100	98	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	91	91	80-120	0	30
Batch number: E110101AA	Sample number(s): 6180118									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	104	60-132	2	30
Batch number: E110111AA	Sample number(s): 6180105,6180107,6180110,6180112,6180114,6180116-6180117									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	104	70-130	1	30
Batch number: Y110101AA	Sample number(s): 6180118									
Acetone	6	U	6.	20	ug/l	106	99	49-234	7	30
Benzene	0.5	U	0.5	5	ug/l	102	97	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	104	101	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	104	99	80-120	4	30
Bromoform	1	U	1.	5	ug/l	99	94	61-120	5	30
Bromomethane	1	U	1.	5	ug/l	94	86	44-120	9	30
2-Butanone	3	U	3.	10	ug/l	106	102	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	104	98	78-120	6	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	96	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	106	98	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	97	80-120	5	30
Chloroethane	1	U	1.	5	ug/l	90	87	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	109	103	77-122	6	30
Chloromethane	1	U	1.	5	ug/l	100	96	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	105	99	80-120	5	30
4-Chlorotoluene	1	U	1.	5	ug/l	102	98	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	87	87	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	104	99	66-120	5	30
Dibromochloromethane	1	U	1.	5	ug/l	100	95	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	106	101	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	93	80-120	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	96	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	96	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	91	85	47-120	7	30
1,1-Dichloroethane	1	U	1.	5	ug/l	104	98	79-120	6	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	114	108	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	109	105	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	98	80-120	6	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	96	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	96	78-120	5	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	99	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	106	98	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	99	80-120	6	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	94	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	99	97	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	102	98	79-120	4	30
Freon 113	2	U	2.	10	ug/l	113	108	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	95	92	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	91	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	105	102	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	102	97	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	99	80-120	5	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	104	100	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	106	101	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	100	92	80-120	8	30
n-Propylbenzene	1	U	1.	5	ug/l	105	100	80-120	5	30
Styrene	1	U	1.	5	ug/l	101	97	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	98	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	102	98	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	101	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	101	95	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	99	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	94	88	75-127	6	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	97	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	106	99	80-120	7	30
Trichlorofluoromethane	2	U	2.	5	ug/l	102	95	64-129	7	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	106	105	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	104	99	74-120	5	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	98	75-120	6	30
Vinyl Chloride	1	U	1.	5	ug/l	88	83	65-125	6	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	95	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	99	96	80-120	4	30
Batch number: 11010SLB026	Sample number(s): 6180105-6180108,6180110-6180117									
Aniline	170 U		170.	500	ug/kg	46		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzoic acid	170 U		170.	500	ug/kg	99		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	85		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	84		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	83		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	83		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	90		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	40		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	99		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	91		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	71		35-106		
Phenol	17	U	17.	170	ug/kg	92		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11011SLA026	Sample number(s): 6180105-6180108,6180110-6180117									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	120		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	124		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	123		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	144*		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	114		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	122		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	126		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	108		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	111		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	124		67-143		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	108		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	127		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	121		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 11011WAG026	Sample number(s): 6180109									
N-Nitrosodimethylamine	0.548	J	0.500	1.00	ng/l	84	83	70-130	1	30
Batch number: 11012A20A	Sample number(s): 6180109									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	81	91	75-135	12	30
Batch number: 110120003A	Sample number(s): 6180109									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	97	98	80-120	1	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	97	80-120	2	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	77	73*	75-125	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	77	73*	75-125	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	90	89	72-117	1	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	92	93	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	100	80-120	1	30
HMX	0.65	U	0.65	2.0	ug/l	88	87	65-125	1	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	82	81	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	88	88	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	91	91	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	90	91	69-107	1	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	90	90	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	104	104	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	87	84	70-125	4	30
Tetryl	0.40	U	0.40	0.60	ug/l	97	97	33-147	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	94	91	53-129	3	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	95	95	76-109	0	30
Batch number: 110100003A	Sample number(s): 6180109									
17b Formaldehyde by 8315A	10	U	10.	50	ug/l	94	94	69-130	0	30
Batch number: 110200023A	Sample number(s): 6180111									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110100012A	Sample number(s): 6180105-6180108,6180110-6180114,6180116-6180117									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	61*	73*	75-125	19	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	116		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110170028A	Sample number(s): 6180115									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70*	66*	75-125	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	114		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110120010A	Sample number(s): 6180109									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	92	92	60-120	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	97	95	60-120	3	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	92	60-120	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	93	60-120	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	68	64	60-120	6	30
Batch number: 110130021A	Sample number(s): 6180109									
Ethanol	200 U		200.	1,000	ug/l	124		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	100		77-137		
Batch number: 110170024A	Sample number(s): 6180109									
Diethylene glycol	10	U	10.	100	mg/l	91		78-126		
Ethylene glycol	10	U	10.	100	mg/l	86		80-124		
Propylene glycol	10	U	10.	100	mg/l	90		80-120		
Batch number: 110120008A	Sample number(s): 6180109									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	94	95	75-125	1	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	99	100	75-125	1	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	86	83	75-125	4	20
Batch number: 110101026001A	Sample number(s): 6180105-6180108,6180110-6180117									
Antimony	0.0577	U	0.0577	0.192	mg/kg	123		11-208		
Arsenic	0.0708	J	0.0577	0.385	mg/kg	102		80-120		
Beryllium	0.0154	U	0.0154	0.0962	mg/kg	104		82-118		
Cadmium	0.0346	U	0.0346	0.0962	mg/kg	108		82-118		
Chromium	0.115	U	0.115	0.385	mg/kg	111		80-120		
Cobalt	0.0192	U	0.0192	0.0962	mg/kg	104		82-118		
Copper	0.0635	U	0.0635	0.385	mg/kg	104		80-120		
Lead	0.0100	U	0.0100	0.192	mg/kg	100		80-120		
Nickel	0.0962	U	0.0962	0.385	mg/kg	111		80-120		
Silver	0.0115	U	0.0115	0.0962	mg/kg	106		66-134		
Thallium	0.0288	U	0.0288	0.0962	mg/kg	106		81-119		
Vanadium	0.0212	U	0.0212	0.0962	mg/kg	103		90-110		
Zinc	0.963	J	0.538	2.88	mg/kg	105		78-122		
Batch number: 110101026001B	Sample number(s): 6180105-6180108,6180110-6180117									
Selenium	0.0385	U	0.0385	0.385	mg/kg	108		79-122		
Batch number: 110101026001C	Sample number(s): 6180105-6180108,6180110-6180117									
Molybdenum	0.0481	U	0.0481	0.0962	mg/kg	115		78-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110101026001D	Sample number(s): 6180105-6180108,6180110-6180117									
Barium	0.104	U	0.104	0.385	mg/kg	107		79-121		
Batch number: 110105708002	Sample number(s): 6180105-6180108,6180110-6180117									
Aluminum	5.03	U	5.03	20.0	mg/kg	95		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	99		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	97		81-119		
Phosphorus	2.20	J	0.560	10.0	mg/kg	101		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	99		78-110		
Sodium	37.3	U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.37	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	104		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 110105711002	Sample number(s): 6180105-6180108,6180110-6180117									
Mercury	0.0050	J	0.0028	0.0993	mg/kg	100		88-123		
Batch number: 11008196904A	Sample number(s): 6180109									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	97	100	90-110	2	20
Batch number: 11012117101B	Sample number(s): 6180109									
21b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	104	99	90-110	5	20
Batch number: 11018018201A	Sample number(s): 6180105-6180107									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11018018201B	Sample number(s): 6180110-6180117									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11019621201A	Sample number(s): 6180108									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11020020203A	Sample number(s): 6180105-6180107									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
Batch number: 11020020203B	Sample number(s): 6180108,6180110-6180117									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
Batch number: 11023243201A	Sample number(s): 6180105-6180108,6180110-6180117									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11010039401A	Sample number(s): 6180105-6180106									
22a pH by 9045C						100		95-105		
Batch number: 11010039401B	Sample number(s): 6180107-6180108,6180110-6180117									
22a pH by 9045C						100		95-105		
Batch number: 11010182101A	Sample number(s): 6180105-6180106									
Oxidation Reduction Potential						100		98-102		
Batch number: 11010182101B	Sample number(s): 6180107-6180108,6180110-6180117									
Oxidation Reduction Potential						100		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11011020001B	Sample number(s): 6180109								
22b pH by 9040B					100		99-101		
Batch number: 11018162401A	Sample number(s): 6180105-6180108,6180110-6180117								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110113AA	Sample number(s): 6180105,6180107,6180110,6180112,6180114,6180116-6180117 UNSPK: 6180107								
Acetone	170		15-210						
Benzene	93		55-143						
Bromobenzene	82		43-139						
Bromochloromethane	100		60-137						
Bromodichloromethane	89		53-136						
Bromoform	91		38-124						
Bromomethane	67		42-168						
2-Butanone	118		37-163						
n-Butylbenzene	75		30-146						
sec-Butylbenzene	76		33-157						
tert-Butylbenzene	75		41-152						
Carbon Tetrachloride	96		45-153						
Chlorobenzene	89		49-135						
Chloroethane	71		39-152						
2-Chloroethyl Vinyl Ether	85		32-139						
Chloroform	95		61-142						
Chloromethane	83		51-163						
2-Chlorotoluene	81		42-146						
4-Chlorotoluene	80		39-145						
1,2-Dibromo-3-chloropropane	74		30-139						
Dibromochloromethane	93		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	94		57-130						
1,2-Dichlorobenzene	82		36-133						
1,3-Dichlorobenzene	78		34-134						
1,4-Dichlorobenzene	81		35-136						
Dichlorodifluoromethane	71		26-151						
1,1-Dichloroethane	92		63-142						
1,2-Dichloroethane	92		68-131						
1,1-Dichloroethene	90		61-149						
cis-1,2-Dichloroethene	94		60-136						
trans-1,2-Dichloroethene	94		59-142						
1,2-Dichloropropane	91		62-135						
1,3-Dichloropropane	89		58-129						
2,2-Dichloropropane	91		53-147						
1,1-Dichloropropene	88		54-145						
cis-1,3-Dichloropropene	80		51-131						
trans-1,3-Dichloropropene	79		49-129						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	85		44-141						
Freon 113	94		56-156						
Hexachlorobutadiene	70		10-155						
2-Hexanone	78		32-160						
Isopropylbenzene	81		38-144						
p-Isopropyltoluene	76		29-152						
Methyl Tertiary Butyl Ether	86		55-129						
4-Methyl-2-pentanone	63		46-139						
Methylene Chloride	86		61-141						
n-Propylbenzene	82		39-157						
Styrene	87		35-134						
1,1,1,2-Tetrachloroethane	93		52-130						
1,1,2,2-Tetrachloroethane	83		40-152						
Tetrachloroethene	98		42-149						
Toluene	91		50-146						
1,2,3-Trichlorobenzene	67		10-140						
1,2,4-Trichlorobenzene	62		10-136						
1,1,1-Trichloroethane	93		64-142						
1,1,2-Trichloroethane	94		54-139						
Trichloroethene	91		53-144						
Trichlorofluoromethane	84		47-163						
1,2,3-Trichloropropane	86		45-154						
1,2,4-Trimethylbenzene	78		37-149						
1,3,5-Trimethylbenzene	79		38-150						
Vinyl Chloride	79		50-154						
m+p-Xylene	89		44-137						
o-Xylene	80		42-137						
Batch number: 11010SLB026	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: P179369								
Aniline	51	56	14-114	9	30				
Benzidine	0*	20*	35-141	200*	30				
Benzo(a)anthracene	95	93	65-122	2	30				
Benzoic acid	73	70	10-173	4	30				
Benzyl alcohol	96	90	55-123	7	30				
4-Bromophenyl-phenylether	94	88	67-129	7	30				
Carbazole	99	94	64-120	5	30				
4-Chloro-3-methylphenol	100	97	53-130	3	30				
4-Chloroaniline	51	50	23-95	3	30				
bis(2-Chloroethoxy)methane	97	99	54-117	1	30				
bis(2-Chloroethyl)ether	94	84	60-116	12	30				
bis(2-Chloroisopropyl)ether	93	86	55-142	8	30				
2-Chloronaphthalene	80	83	50-141	4	30				
2-Chlorophenol	98	95	73-121	4	30				
4-Chlorophenyl-phenylether	99	96	64-119	3	30				
Chrysene	94	91	62-128	3	30				
Dibenzofuran	97	96	71-112	1	30				
1,2-Dichlorobenzene	98	90	66-108	8	30				
1,3-Dichlorobenzene	96	87	63-109	10	30				
1,4-Dichlorobenzene	95	88	53-113	7	30				
3,3'-Dichlorobenzidine	61	65	25-123	6	30				
2,4-Dichlorophenol	100	99	78-117	1	30				
2,4-Dimethylphenol	100	97	56-130	3	30				
3,5-Dimethylphenol	112	107	70-130	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4,6-Dinitro-2-methylphenol	83	76	10-148	9	30				
2,4-Dinitrophenol	72	54	20-143	28	30				
2,4-Dinitrotoluene	105	100	57-114	5	30				
2,6-Dinitrotoluene	100	100	69-123	0	30				
1,2-Diphenylhydrazine	100	97	71-129	3	30				
Hexachlorobenzene	99	94	61-111	5	30				
Hexachlorobutadiene	98	99	62-120	0	30				
Hexachlorocyclopentadiene	94	90	10-153	5	30				
Hexachloroethane	102	90	57-109	13	30				
Isophorone	96	95	51-118	1	30				
2-Methylphenol	99	93	47-142	7	30				
4-Methylphenol	97	90	55-126	7	30				
2-Nitroaniline	105	102	67-125	3	30				
3-Nitroaniline	96	93	59-122	3	30				
4-Nitroaniline	71	71	52-112	1	30				
Nitrobenzene	102	100	51-114	2	30				
2-Nitrophenol	101	96	74-115	5	30				
4-Nitrophenol	106	101	39-133	5	30				
N-Nitroso-di-n-propylamine	93	88	60-116	5	30				
N-Nitrosodiphenylamine	95	92	86-145	3	30				
Pentachlorophenol	78	73	17-149	7	30				
Phenol	101	94	58-126	7	30				
1,2,4-Trichlorobenzene	97	95	72-115	2	30				
2,4,5-Trichlorophenol	104	97	34-139	7	30				
2,4,6-Trichlorophenol	102	103	49-140	1	30				
Batch number: 11011SLA026	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: P179369								
Acenaphthene	96	91	63-105	5	30				
Acenaphthylene	96	90	55-126	7	30				
Anthracene	97	94	46-136	3	30				
Benzo(a)anthracene	101	99	39-144	2	30				
Benzo(a)pyrene	119	118	34-156	1	30				
Benzo(b)fluoranthene	120	117	43-155	3	30				
Benzo(g,h,i)perylene	95	91	33-141	4	30				
Benzo(k)fluoranthene	134	138	42-144	3	30				
Butylbenzylphthalate	130	109	73-140	17	30				
Di-n-butylphthalate	118	118	78-160	1	30				
Chrysene	100	96	29-156	4	30				
Dibenz(a,h)anthracene	113	101	41-130	11	30				
Diethylphthalate	112	108	87-131	3	30				
Dimethylphthalate	109	105	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	125	117	39-167	7	30				
Fluoranthene	94	91	26-166	3	30				
Fluorene	100	95	45-121	5	30				
Indeno(1,2,3-cd)pyrene	109	100	21-143	8	30				
1-Methylnaphthalene	98	91	72-123	8	30				
2-Methylnaphthalene	95	91	28-121	5	30				
Naphthalene	95	95	61-102	1	30				
N-Nitrosodimethylamine	108	105	48-113	2	30				
Di-n-octylphthalate	132	124	40-192	6	30				
Phenanthrene	96	95	12-165	0	30				
Pyrene	97	87	15-153	11	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110200023A	Sample number(s): 6180111 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110100012A	Sample number(s): 6180105-6180108,6180110-6180114,6180116-6180117 UNSPK: P179369								
PCB-1016	86	85	29-146	1	50				
PCB-1260	104	106	39-149	1	50				
Batch number: 110170028A	Sample number(s): 6180115 UNSPK: P182836								
PCB-1016	83	84	29-146	1	50				
PCB-1260	128	116	39-149	9	50				
Batch number: 110130021A	Sample number(s): 6180109 UNSPK: 6180109								
Ethanol	128*	152*	69-125	17	20				
Isopropanol	100	120	75-125	18	20				
Methanol	96	108	61-131	12	20				
Batch number: 110170024A	Sample number(s): 6180109 UNSPK: P184193								
Diethylene glycol	91	95	83-130	5	20				
Ethylene glycol	81*	86*	89-125	6	20				
Propylene glycol	85*	85*	91-128	0	20				
Batch number: 110101026001A	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: 6180105 BKG: 6180105								
Antimony	46*	40*	75-125	11	20	0.194	0.144 J	29* (1)	20
Arsenic	109	132*	75-125	6	20	5.03	4.93	2	20
Beryllium	107	109	75-125	1	20	0.498	0.473	5 (1)	20
Cadmium	108	122	75-125	10	20	0.181	0.145	22* (1)	20
Chromium	74*	106	75-125	11	20	18.5	15.0	21*	20
Cobalt	90	95	75-125	4	20	4.88	4.73	3	20
Copper	84	91	75-125	4	20	7.46	6.75	10	20
Lead	119	126*	75-125	2	20	5.09	4.65	9	20
Nickel	88	110	75-125	10	20	10.3	8.58	19	20
Silver	115	117	75-125	1	20	0.0161 J	0.0228 J	34* (1)	20
Thallium	107	105	75-125	2	20	0.271	0.250	8 (1)	20
Vanadium	90	127*	75-125	8	20	34.0	29.3	15	20
Zinc	131 (2)	200 (2)	75-125	7	20	73.2	68.1	7	20
Batch number: 110101026001B	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: 6180105 BKG: 6180105								
Selenium	109	107	75-125	3	20	0.106 J	0.0823 J	25* (1)	20
Batch number: 110101026001C	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: 6180105 BKG: 6180105								
Molybdenum	112	117	75-125	3	20	0.437	0.405	8 (1)	20
Batch number: 110101026001D	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: 6180105 BKG: 6180105								
Barium	108 (2)	97 (2)	75-125	1	20	84.2	72.5	15	20
Batch number: 110105708002	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: 6180105 BKG: 6180105								
Aluminum	707 (2)	198 (2)	75-125	8	20	12,300	11,900	3	20
Boron	103	103	84-115	1	20	0.881 U	0.881 U	0 (1)	20
Calcium	-355 (2)	-530 (2)	75-125	13	20	7,080	5,370	27*	20
Iron	-358 (2)	-1706 (2)	75-125	7	20	18,800	18,400	2	20
Lithium	99	96	82-114	3	20	26.3	26.4	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Magnesium	29 (2)	-42 (2)	75-125	3	20	5,050	4,980	1	20
Manganese	89 (2)	56 (2)	75-125	5	20	289	277	4	20
Phosphorus	94	57*	75-125	8	20	374	453	19	20
Potassium	109	90	75-125	5	20	2,960	3,000	1	20
Sodium	102	98	75-125	4	20	181	179	1 (1)	20
Strontium	97	92	75-115	5	20	16.9	16.7	2	20
Tin	91	89	80-110	3	20	2.19 J	2.24 J	2 (1)	20
Titanium	285 (2)	206 (2)	75-125	6	20	1,210	1,220	1	20
Zirconium	102	101	75-125	3	20	0.860 J	1.18 J	31* (1)	20
Batch number: 110105711002	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: 6180106 BKG: 6180106								
Mercury	102	106	65-135	1	20	0.0332 J	0.0304 J	9 (1)	20
Batch number: 11018018201A	Sample number(s): 6180105-6180107 UNSPK: P179369 BKG: P179369								
7a Perchlorate EPA 314.0	110		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11018018201B	Sample number(s): 6180110-6180117 UNSPK: 6180110 BKG: 6180110								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11019621201A	Sample number(s): 6180108 UNSPK: 6180108 BKG: 6180108								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11020020203A	Sample number(s): 6180105-6180107 UNSPK: P179369 BKG: P179369								
11a Anions by 300.0 - Fluoride	62*		80-120			1.4	1.4	4 (1)	20
Batch number: 11020020203B	Sample number(s): 6180108,6180110-6180117 UNSPK: 6180108 BKG: 6180108								
11a Anions by 300.0 - Fluoride	92		80-120			1.2	1.2	2 (1)	20
Batch number: 11023243201A	Sample number(s): 6180105-6180108,6180110-6180117 UNSPK: P179369 BKG: P179369								
3a Cr VI by EPA 7199	93		75-125			0.20 U	0.21 J	200* (1)	20
Batch number: 11010039401A	Sample number(s): 6180105-6180106 BKG: P179369								
22a pH by 9045C						6.14	6.18	1	1
Batch number: 11010039401B	Sample number(s): 6180107-6180108,6180110-6180117 BKG: 6180107								
22a pH by 9045C						7.92	7.97	1	1
Batch number: 11010182101A	Sample number(s): 6180105-6180106 BKG: P179369								
Oxidation Reduction Potential						489	498	2	6
Batch number: 11010182101B	Sample number(s): 6180107-6180108,6180110-6180117 BKG: 6180107								
Oxidation Reduction Potential						450	449	0	6
Batch number: 11011020001B	Sample number(s): 6180109 BKG: P180446								
22b pH by 9040B						7.5	7.5	0	1
Batch number: 11018162401A	Sample number(s): 6180105-6180108,6180110-6180117 BKG: 6180117								
28a Moisture Content by 160.3						9.7	9.9	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110113AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6180105	107	102	96	87
6180107	108	103	98	84
6180110	108	103	97	85
6180112	108	105	98	86
6180114	109	105	97	86
6180116	109	103	96	86
6180117	110	106	95	86
Blank	108	106	93	89
LCS	101	104	101	100
LCSD	101	105	101	100
MS	103	107	101	102
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110101AA

	Toluene-d8
6180118	101
Blank	101
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110111AA

	Toluene-d8
6180105	98
6180107	98
6180110	98
6180112	98
6180114	98
6180116	98
6180117	98
Blank	98
LCS	99
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6180118	102	100	100	100
Blank	104	101	99	100
LCS	103	105	100	101
LCSD	104	104	100	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Surrogate Quality Control

Limits:	86-118	80-120	88-110	86-115		

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11010SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6180105	93	91	102	80	90	86
6180106	86	83	92	74	85	80
6180107	87	86	99	77	88	84
6180108	90	88	92	83	92	97
6180110	91	89	100	81	93	92
6180111	89	87	99	81	93	90
6180112	77	79	93	74	83	80
6180113	87	87	101	79	89	102
6180114	89	86	104	79	91	100
6180115	89	87	106	80	93	103
6180116	90	88	106	81	91	102
6180117	84	82	100	77	86	92
Blank	85	85	99	82	91	85
LCS	88	87	107	84	90	84
MS	98	96	111	91	92	86
MSD	93	91	109	93	91	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11011SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6180105	113	104	105
6180106	98	92	88
6180107	87	85	79
6180108	93	88	79
6180110	97	95	90
6180111	97	101	87
6180112	109	91	84
6180113	98	91	94
6180114	97	93	87
6180115	95	94	90
6180116	98	100	91
6180117	90	88	86
Blank	96	92	96
LCS	96	97	98
MS	102	103	100
MSD	90	96	89
Limits:	40-130	45-130	45-135

Analysis Name: 19b NDMA by 1625C
Batch number: 11011WAG026

	N-Nitrosodimethylamine-d6
6180109	184*
Blank	109
LCS	124

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Surrogate Quality Control

LCSD 127

Limits: 50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11012A20A

	Trifluorotoluene-F
6180109	96
Blank	94
LCS	112
LCSD	121
Limits:	63-135

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 110100003A

	Butyraldehyde
6180109	97
Blank	95
LCS	91
LCSD	92
Limits:	45-145

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110100012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6180105	119	125*
6180106	111	108
6180107	104	114
6180108	103	101
6180110	116	112
6180111	110	116
6180112	139	133*
6180113	112	108
6180114	106	100
6180116	96	101
6180117	105	100
Blank	87	98
LCS	93	107
LCSD	96	106
MS	98	98
MSD	92	101
Limits:	53-139	45-120

Analysis Name: 20b Energetics by 8330A
Batch number: 110120003A

	2-Nitro-m-xylene
6180109	93
Blank	91
LCS	99
LCSD	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228357
Reported: 02/04/11 at 03:11 PM

Surrogate Quality Control

Limits: 50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110170028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6180115	103	119
Blank	89	114
LCS	93	118
LCSD	85	114
MS	90	130*
MSD	86	93
Limits:	53-139	45-120

Analysis Name: 26b Terphenyls by 8015B
Batch number: 110120008A

	n-Triacontane-d62
6180109	108
Blank	106
LCS	106
LCSD	103
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 110120010A

	Chlorobenzene	Orthoterphenyl
6180109	75	90
Blank	66	82
LCS	77	93
LCSD	75	90
Limits:	28-152	52-131

Analysis Name: 25b Alcohols by 8015B
Batch number: 110130021A

	Acetone
6180109	92
Blank	84
LCS	98
MS	90
MSD	119
Limits:	54-147

Analysis Name: 27b Glycols by 8015B
Batch number: 110170024A

	Tetramethylene glycol
6180109	98
Blank	97
LCS	99

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Quality Control Summary

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Reported: 02/04/11 at 03:11 PM

Surrogate Quality Control

MS	98
MSD	100
Limits:	10-164

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acct#13013 Cap# 1128357 Sample# 6180105-18

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING	PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP Samplers Signature:		*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	*VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE / TIME / MATRIX / Preservative / Type & No. of Containers																								
SL-059-SA5B-SB-4.0-5.0	01.07.1 0923 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-059-SA5B-SB-4.5	01.07.1 0920 SOIL NONE 4 ENCORES											X	X												
SL-059-SA5B-SB-9.0-10.0	01.07.1 0928 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-060-SA5B-SB-4.0-5.0	01.07.1 1105 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-060-SA5B-SB-4.5	01.07.1 1101 SOIL NONE 4 ENCORES											X	X												
SL-060-SA5B-SB-9.0-10.0	01.07.1 1110 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
EB18-SA5B-010711	01.07.1 1130 WATER NONE 4 1L AMBERS															X			X	X		X			SUBSURFACE TOOL RINSATE
EB18-SA5B-010711	01.07.1 1130 WATER HCl 5 40 mL VOAS													X										X	SUBSURFACE TOOL RINSATE
EB18-SA5B-010711	01.07.1 1130 WATER NONE 4 40 mL VOAS																X						X		SUBSURFACE TOOL RINSATE
EB18-SA5B-010711	01.07.1 1130 WATER NONE 1-250 mL glass bottle														X			X							SUBSURFACE TOOL RINSATE
EB18-SA5B-010711	01.07.1 1130 WATER NaOH 1-500 mL poly																				X				SUBSURFACE TOOL RINSATE
SL-055-SA5B-SB-4.0-5.0	01.07.1 1216 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-055-SA5B-SB-4.5	01.07.1 1212 SOIL NONE 4 ENCORES											X	X												
SL-055-SA5B-SB-8.5-9.5	01.07.1 1222 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X	X																
SL-062-SA5B-SB-4.0-5.0	01.07.1 1404 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-062-SA5B-SB-4.5	01.07.1 1400 SOIL NONE 4 ENCORES											X	X												
SL-062-SA5B-SB-9.0-10.0	01.07.1 1409 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-056-SA5B-SB-4.0-5.0	01.07.1 1349 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-056-SA5B-SB-4.5	01.07.1 1345 SOIL NONE 4 ENCORES											X	X												
SL-056-SA5B-SB-9.0-10.0	01.07.1 1353 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-061-SA5B-SB-4.0	01.07.1 1600 SOIL NONE 4 ENCORES											X	X												
SL-061-SA5B-SB-3.5-4.5	01.07.1 1605 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
SL-234-SA5B-SB-3.0	01.07.1 1505 SOIL NONE 4 ENCORES											X	X												
SL-234-SA5B-SB-2.5-3.5	01.07.1 1509 SOIL NONE 2 16 oz. jars	X	X	X	X	X	X	X																	
TB-010711	01.07.1 0800 WATER HCl 4 40 mL VOA VIALS											X	X												

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
[signature]	1/7/2011, 16:30	[signature]	1/8/11 10:00	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)		No. of coolers = 2
[signature]	1/8/11 10:00	8695 1432 2843 2882		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/08/2011
Group Number: 1228358
SDG: DX036
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-059-SA5B-SB-4.0-5.0 Soil	6180119
SL-059-SA5B-SB-8.5-9.5 Soil	6180120
SL-060-SA5B-SB-4.0-5.0 Soil	6180121
SL-060-SA5B-SB-9.0-10.0 Soil	6180122
SL-055-SA5B-SB-4.0-5.0 Soil	6180123
SL-055-SA5B-SB-8.5-9.5 Soil	6180124
SL-062-SA5B-SB-4.0-5.0 Soil	6180125
SL-062-SA5B-SB-9.0-10.0 Soil	6180126
SL-056-SA5B-SB-4.0-5.0 Soil	6180127
SL-056-SA5B-SB-9.0-10.0 Soil	6180128
SL-061-SA5B-SB-3.5-4.5 Soil	6180129
SL-234-SA5B-SB-2.5-3.5 Soil	6180130

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180119
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3609 SDG#: DX036-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180119
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3609 SDG#: DX036-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0647	JQ	0.0484	1.07	1
11031	12378-PeCDD	40321-76-4	0.211	JQ	0.0502	5.37	1
11031	123478-HxCDD	39227-28-6	0.166	J	0.0591	5.37	1
11031	123678-HxCDD	57653-85-7	1.12	J	0.0603	5.37	1
11031	123789-HxCDD	19408-74-3	0.471	JBQ	0.0626	5.37	1
11031	1234678-HpCDD	35822-46-9	41.3	B	0.0841	5.37	1
11031	OCDD	3268-87-9	385	B	0.0913	10.7	1
11031	2378-TCDF	51207-31-9	0.0564	JQ	0.0491	1.07	1
11031	12378-PeCDF	57117-41-6	0.214	JB	0.0243	5.37	1
11031	23478-PeCDF	57117-31-4	0.231	JB	0.0252	5.37	1
11031	123478-HxCDF	70648-26-9	0.206	JBQ	0.0352	5.37	1
11031	123678-HxCDF	57117-44-9	0.176	JBQ	0.0316	5.37	1
11031	123789-HxCDF	72918-21-9	0.103	JBQ	0.0420	5.37	1
11031	234678-HxCDF	60851-34-5	0.250	JB	0.0352	5.37	1
11031	1234678-HpCDF	67562-39-4	2.98	JB	0.0322	5.37	1
11031	1234789-HpCDF	55673-89-7	0.417	JB	0.0461	5.37	1
11031	OCDF	39001-02-0	7.55	JB	0.0549	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180119
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3609 SDG#: DX036-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-4.0-5.0

LLI Sample # SW 6180119
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:23

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3609 SDG#: DX036-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 02:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180120
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3610 SDG#: DX036-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180120
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3610 SDG#: DX036-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0516	JQ	0.0373	1.09	1
11031	12378-PeCDD	40321-76-4	0.315	JQ	0.0456	5.47	1
11031	123478-HxCDD	39227-28-6	0.380	J	0.0574	5.47	1
11031	123678-HxCDD	57653-85-7	2.10	J	0.0575	5.47	1
11031	123789-HxCDD	19408-74-3	0.747	JB	0.0561	5.47	1
11031	1234678-HpCDD	35822-46-9	63.2	B	0.0779	5.47	1
11031	OCDD	3268-87-9	607	B	0.0828	10.9	1
11031	2378-TCDF	51207-31-9	0.0559	JQ	0.0427	1.09	1
11031	12378-PeCDF	57117-41-6	0.201	JB	0.0235	5.47	1
11031	23478-PeCDF	57117-31-4	0.290	JB	0.0245	5.47	1
11031	123478-HxCDF	70648-26-9	0.249	JBQ	0.0377	5.47	1
11031	123678-HxCDF	57117-44-9	0.340	JB	0.0316	5.47	1
11031	123789-HxCDF	72918-21-9	0.145	JB	0.0456	5.47	1
11031	234678-HxCDF	60851-34-5	0.477	JB	0.0373	5.47	1
11031	1234678-HpCDF	67562-39-4	5.62	B	0.0362	5.47	1
11031	1234789-HpCDF	55673-89-7	0.615	JB	0.0614	5.47	1
11031	OCDF	39001-02-0	13.5	B	0.0559	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180120
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3610 SDG#: DX036-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-059-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA5B-SB-8.5-9.5

LLI Sample # SW 6180120
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 09:28

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3610 SDG#: DX036-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 03:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180121
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3611 SDG#: DX036-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-060-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180121
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3611 SDG#: DX036-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0365	U	0.0365	1.11	1
11031	12378-PeCDD	40321-76-4	0.0376	U	0.0376	5.56	1
11031	123478-HxCDD	39227-28-6	0.0714	JQ	0.0474	5.56	1
11031	123678-HxCDD	57653-85-7	0.409	JQ	0.0502	5.56	1
11031	123789-HxCDD	19408-74-3	0.149	JB	0.0475	5.56	1
11031	1234678-HpCDD	35822-46-9	13.7	B	0.0652	5.56	1
11031	OCDD	3268-87-9	139	B	0.0666	11.1	1
11031	2378-TCDF	51207-31-9	0.0405	U	0.0405	1.11	1
11031	12378-PeCDF	57117-41-6	0.0659	JB	0.0190	5.56	1
11031	23478-PeCDF	57117-31-4	0.110	JBQ	0.0211	5.56	1
11031	123478-HxCDF	70648-26-9	0.163	JBQ	0.0387	5.56	1
11031	123678-HxCDF	57117-44-9	0.180	JB	0.0295	5.56	1
11031	123789-HxCDF	72918-21-9	0.0877	JBQ	0.0467	5.56	1
11031	234678-HxCDF	60851-34-5	0.214	JB	0.0358	5.56	1
11031	1234678-HpCDF	67562-39-4	1.71	JB	0.0198	5.56	1
11031	1234789-HpCDF	55673-89-7	0.466	JB	0.0398	5.56	1
11031	OCDF	39001-02-0	2.71	JB	0.0641	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180121
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3611 SDG#: DX036-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-060-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-4.0-5.0

LLI Sample # SW 6180121
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:05

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3611 SDG#: DX036-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 04:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-060-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180122
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3612 SDG#: DX036-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180122
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3612 SDG#: DX036-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0480	U	0.0480	1.08	1
11031	12378-PeCDD	40321-76-4	0.0967	JQ	0.0557	5.39	1
11031	123478-HxCDD	39227-28-6	0.261	JQ	0.0674	5.39	1
11031	123678-HxCDD	57653-85-7	1.99	J	0.0697	5.39	1
11031	123789-HxCDD	19408-74-3	0.503	JBQ	0.0667	5.39	1
11031	1234678-HpCDD	35822-46-9	86.4	B	0.121	5.39	1
11031	OCDD	3268-87-9	1,290	B	0.109	10.8	1
11031	2378-TCDF	51207-31-9	0.0888	J	0.0546	1.08	1
11031	12378-PeCDF	57117-41-6	0.136	JB	0.0250	5.39	1
11031	23478-PeCDF	57117-31-4	0.209	JB	0.0276	5.39	1
11031	123478-HxCDF	70648-26-9	0.363	JB	0.0437	5.39	1
11031	123678-HxCDF	57117-44-9	0.275	JB	0.0369	5.39	1
11031	123789-HxCDF	72918-21-9	0.142	JBQ	0.0501	5.39	1
11031	234678-HxCDF	60851-34-5	0.464	JB	0.0410	5.39	1
11031	1234678-HpCDF	67562-39-4	6.88	B	0.0341	5.39	1
11031	1234789-HpCDF	55673-89-7	0.755	JB	0.0584	5.39	1
11031	OCDF	39001-02-0	21.5	B	0.0609	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180122
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3612 SDG#: DX036-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-060-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5B-SB-9.0-10.0

LLI Sample # SW 6180122
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 11:10

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3612 SDG#: DX036-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 05:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180123
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3613 SDG#: DX036-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-055-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180123
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3613 SDG#: DX036-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0401	U	0.0401	1.08	1
11031	12378-PeCDD	40321-76-4	0.0872	J	0.0461	5.39	1
11031	123478-HxCDD	39227-28-6	0.169	J	0.0627	5.39	1
11031	123678-HxCDD	57653-85-7	1.18	JQ	0.0660	5.39	1
11031	123789-HxCDD	19408-74-3	0.325	JB	0.0636	5.39	1
11031	1234678-HpCDD	35822-46-9	40.1	B	0.0905	5.39	1
11031	OCDD	3268-87-9	376	B	0.0792	10.8	1
11031	2378-TCDF	51207-31-9	0.0467	U	0.0467	1.08	1
11031	12378-PeCDF	57117-41-6	0.118	JBQ	0.0219	5.39	1
11031	23478-PeCDF	57117-31-4	0.196	JBQ	0.0232	5.39	1
11031	123478-HxCDF	70648-26-9	0.195	JB	0.0347	5.39	1
11031	123678-HxCDF	57117-44-9	0.195	JB	0.0305	5.39	1
11031	123789-HxCDF	72918-21-9	0.0503	JBQ	0.0397	5.39	1
11031	234678-HxCDF	60851-34-5	0.310	JB	0.0332	5.39	1
11031	1234678-HpCDF	67562-39-4	4.15	JB	0.0326	5.39	1
11031	1234789-HpCDF	55673-89-7	0.471	JB	0.0475	5.39	1
11031	OCDF	39001-02-0	10.9	B	0.0498	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-055-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180123
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3613 SDG#: DX036-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-4.0-5.0

LLI Sample # SW 6180123
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:16

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3613 SDG#: DX036-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 06:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180124
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3614 SDG#: DX036-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-055-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180124
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3614 SDG#: DX036-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0396	U	0.0396	1.10	1
11031	12378-PeCDD	40321-76-4	0.0896	JQ	0.0438	5.48	1
11031	123478-HxCDD	39227-28-6	0.0955	J	0.0492	5.48	1
11031	123678-HxCDD	57653-85-7	0.808	JQ	0.0511	5.48	1
11031	123789-HxCDD	19408-74-3	0.260	JBQ	0.0476	5.48	1
11031	1234678-HpCDD	35822-46-9	39.6	B	0.0827	5.48	1
11031	OCDD	3268-87-9	644	B	0.110	11.0	1
11031	2378-TCDF	51207-31-9	0.0756	JQ	0.0435	1.10	1
11031	12378-PeCDF	57117-41-6	0.175	JBQ	0.0226	5.48	1
11031	23478-PeCDF	57117-31-4	0.175	JB	0.0226	5.48	1
11031	123478-HxCDF	70648-26-9	0.266	JBQ	0.0319	5.48	1
11031	123678-HxCDF	57117-44-9	0.123	JB	0.0280	5.48	1
11031	123789-HxCDF	72918-21-9	0.129	JBQ	0.0336	5.48	1
11031	234678-HxCDF	60851-34-5	0.242	JB	0.0298	5.48	1
11031	1234678-HpCDF	67562-39-4	3.06	JB	0.0331	5.48	1
11031	1234789-HpCDF	55673-89-7	0.387	JBQ	0.0414	5.48	1
11031	OCDF	39001-02-0	13.3	B	0.0471	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180124
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3614 SDG#: DX036-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5B-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5B-SB-8.5-9.5

LLI Sample # SW 6180124
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 12:22

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3614 SDG#: DX036-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 07:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180125
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX036-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180125
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX036-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0417	U	0.0417	1.10	1
11031	12378-PeCDD	40321-76-4	0.0529	JQ	0.0522	5.52	1
11031	123478-HxCDD	39227-28-6	0.101	JQ	0.0640	5.52	1
11031	123678-HxCDD	57653-85-7	0.657	J	0.0665	5.52	1
11031	123789-HxCDD	19408-74-3	0.230	JB	0.0646	5.52	1
11031	1234678-HpCDD	35822-46-9	26.3	B	0.0893	5.52	1
11031	OCDD	3268-87-9	253	B	0.0702	11.0	1
11031	2378-TCDF	51207-31-9	0.0502	U	0.0502	1.10	1
11031	12378-PeCDF	57117-41-6	0.139	JBQ	0.0222	5.52	1
11031	23478-PeCDF	57117-31-4	0.133	JBQ	0.0239	5.52	1
11031	123478-HxCDF	70648-26-9	0.138	JBQ	0.0347	5.52	1
11031	123678-HxCDF	57117-44-9	0.113	JBQ	0.0287	5.52	1
11031	123789-HxCDF	72918-21-9	0.0946	JB	0.0424	5.52	1
11031	234678-HxCDF	60851-34-5	0.172	JBQ	0.0328	5.52	1
11031	1234678-HpCDF	67562-39-4	2.40	JB	0.0310	5.52	1
11031	1234789-HpCDF	55673-89-7	0.336	JBQ	0.0505	5.52	1
11031	OCDF	39001-02-0	6.08	JB	0.0590	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180125
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX036-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-062-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-4.0-5.0

LLI Sample # SW 6180125
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:04

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX036-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 08:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-062-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180126
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3616 SDG#: DX036-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180126
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3616 SDG#: DX036-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0354	U	0.0354	1.08	1
11031	12378-PeCDD	40321-76-4	0.0774	JQ	0.0417	5.42	1
11031	123478-HxCDD	39227-28-6	0.108	J	0.0577	5.42	1
11031	123678-HxCDD	57653-85-7	1.24	J	0.0605	5.42	1
11031	123789-HxCDD	19408-74-3	0.275	JBQ	0.0572	5.42	1
11031	1234678-HpCDD	35822-46-9	65.8	B	0.0886	5.42	1
11031	OCDD	3268-87-9	1,070	B	0.110	10.8	1
11031	2378-TCDF	51207-31-9	0.0404	U	0.0404	1.08	1
11031	12378-PeCDF	57117-41-6	0.128	JBQ	0.0196	5.42	1
11031	23478-PeCDF	57117-31-4	0.158	JB	0.0212	5.42	1
11031	123478-HxCDF	70648-26-9	0.244	JB	0.0389	5.42	1
11031	123678-HxCDF	57117-44-9	0.193	JBQ	0.0300	5.42	1
11031	123789-HxCDF	72918-21-9	0.0741	JB	0.0387	5.42	1
11031	234678-HxCDF	60851-34-5	0.238	JBQ	0.0319	5.42	1
11031	1234678-HpCDF	67562-39-4	5.35	JB	0.0354	5.42	1
11031	1234789-HpCDF	55673-89-7	0.508	JB	0.0520	5.42	1
11031	OCDF	39001-02-0	19.9	B	0.0571	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	96	25 - 164
13C12-12378-PeCDD	107	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	106	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	96	24 - 169
13C12-12378-PeCDF	114	24 - 185
13C12-23478-PeCDF	101	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	101	26 - 123
13C12-234678-HxCDF	95	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	90	17 - 157
13C12-1278-TCDD (CRS)	107	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180126
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3616 SDG#: DX036-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA5B-SB-9.0-10.0

LLI Sample # SW 6180126
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 14:09

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3616 SDG#: DX036-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 09:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-056-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180127
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3617 SDG#: DX036-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180127
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3617 SDG#: DX036-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0492	U	0.0492	1.08	1
11031	12378-PeCDD	40321-76-4	0.169	JQ	0.0529	5.42	1
11031	123478-HxCDD	39227-28-6	0.211	J	0.0754	5.42	1
11031	123678-HxCDD	57653-85-7	1.10	J	0.0780	5.42	1
11031	123789-HxCDD	19408-74-3	0.381	JBQ	0.0769	5.42	1
11031	1234678-HpCDD	35822-46-9	34.7	B	0.115	5.42	1
11031	OCDD	3268-87-9	324	B	0.166	10.8	1
11031	2378-TCDF	51207-31-9	0.0451	U	0.0451	1.08	1
11031	12378-PeCDF	57117-41-6	0.196	JB	0.0242	5.42	1
11031	23478-PeCDF	57117-31-4	0.204	JBQ	0.0226	5.42	1
11031	123478-HxCDF	70648-26-9	0.163	JBQ	0.0459	5.42	1
11031	123678-HxCDF	57117-44-9	0.158	JBQ	0.0390	5.42	1
11031	123789-HxCDF	72918-21-9	0.0867	JB	0.0455	5.42	1
11031	234678-HxCDF	60851-34-5	0.236	JB	0.0401	5.42	1
11031	1234678-HpCDF	67562-39-4	3.34	JB	0.0501	5.42	1
11031	1234789-HpCDF	55673-89-7	0.355	JB	0.0613	5.42	1
11031	OCDF	39001-02-0	8.62	JB	0.0585	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	87	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180127
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3617 SDG#: DX036-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-4.0-5.0

LLI Sample # SW 6180127
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:49

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3617 SDG#: DX036-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 09:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-9.0-10.0

LLI Sample # SW 6180128
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:53

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3618 SDG#: DX036-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-9.0-10.0

LLI Sample # SW 6180128
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:53

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3618 SDG#: DX036-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0496	U	0.0496	1.09	1
11031	12378-PeCDD	40321-76-4	0.0764	JQ	0.0565	5.46	1
11031	123478-HxCDD	39227-28-6	0.170	JQ	0.0698	5.46	1
11031	123678-HxCDD	57653-85-7	1.01	J	0.0733	5.46	1
11031	123789-HxCDD	19408-74-3	0.279	JB	0.0648	5.46	1
11031	1234678-HpCDD	35822-46-9	49.3	B	0.127	5.46	1
11031	OCDD	3268-87-9	747	B	0.130	10.9	1
11031	2378-TCDF	51207-31-9	0.0801	JQ	0.0516	1.09	1
11031	12378-PeCDF	57117-41-6	0.155	JB	0.0277	5.46	1
11031	23478-PeCDF	57117-31-4	0.163	JBQ	0.0292	5.46	1
11031	123478-HxCDF	70648-26-9	0.320	JBQ	0.0516	5.46	1
11031	123678-HxCDF	57117-44-9	0.185	JB	0.0416	5.46	1
11031	123789-HxCDF	72918-21-9	0.156	JBQ	0.0469	5.46	1
11031	234678-HxCDF	60851-34-5	0.266	JB	0.0416	5.46	1
11031	1234678-HpCDF	67562-39-4	5.14	JB	0.0481	5.46	1
11031	1234789-HpCDF	55673-89-7	0.573	JB	0.0592	5.46	1
11031	OCDF	39001-02-0	21.2	B	0.0627	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-9.0-10.0

LLI Sample # SW 6180128
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:53

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3618 SDG#: DX036-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5B-SB-9.0-10.0

LLI Sample # SW 6180128
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 13:53

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3618 SDG#: DX036-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 18:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180129
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3619 SDG#: DX036-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180129
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3619 SDG#: DX036-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0784	U	0.0784	1.10	1
11031	12378-PeCDD	40321-76-4	0.0686	U	0.0686	5.51	1
11031	123478-HxCDD	39227-28-6	0.0848	U	0.0848	5.51	1
11031	123678-HxCDD	57653-85-7	0.550	JQ	0.0873	5.51	1
11031	123789-HxCDD	19408-74-3	0.199	JBQ	0.0868	5.51	1
11031	1234678-HpCDD	35822-46-9	27.3	B	0.130	5.51	1
11031	OCDD	3268-87-9	293	B	0.129	11.0	1
11031	2378-TCDF	51207-31-9	0.0794	U	0.0794	1.10	1
11031	12378-PeCDF	57117-41-6	0.109	JBQ	0.0421	5.51	1
11031	23478-PeCDF	57117-31-4	0.106	JB	0.0431	5.51	1
11031	123478-HxCDF	70648-26-9	0.155	JBQ	0.0649	5.51	1
11031	123678-HxCDF	57117-44-9	0.135	JB	0.0535	5.51	1
11031	123789-HxCDF	72918-21-9	0.121	JBQ	0.0686	5.51	1
11031	234678-HxCDF	60851-34-5	0.217	JBQ	0.0593	5.51	1
11031	1234678-HpCDF	67562-39-4	2.47	JB	0.0503	5.51	1
11031	1234789-HpCDF	55673-89-7	0.280	JBQ	0.0757	5.51	1
11031	OCDF	39001-02-0	7.04	JB	0.115	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180129
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3619 SDG#: DX036-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-061-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5B-SB-3.5-4.5

LLI Sample # SW 6180129
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 16:05

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3619 SDG#: DX036-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 19:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-234-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180130
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3620 SDG#: DX036-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-234-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180130
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3620 SDG#: DX036-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0515	U	0.0515	1.11	1
11031	12378-PeCDD	40321-76-4	0.0417	U	0.0417	5.54	1
11031	123478-HxCDD	39227-28-6	0.0326	U	0.0326	5.54	1
11031	123678-HxCDD	57653-85-7	0.0367	JQ	0.0321	5.54	1
11031	123789-HxCDD	19408-74-3	0.0297	U	0.0297	5.54	1
11031	1234678-HpCDD	35822-46-9	0.234	JBQ	0.0502	5.54	1
11031	OCDD	3268-87-9	1.37	JB	0.0439	11.1	1
11031	2378-TCDF	51207-31-9	0.0530	U	0.0530	1.11	1
11031	12378-PeCDF	57117-41-6	0.0310	JB	0.0223	5.54	1
11031	23478-PeCDF	57117-31-4	0.0712	JBQ	0.0241	5.54	1
11031	123478-HxCDF	70648-26-9	0.0933	JBQ	0.0337	5.54	1
11031	123678-HxCDF	57117-44-9	0.0671	JB	0.0249	5.54	1
11031	123789-HxCDF	72918-21-9	0.0306	U	0.0306	5.54	1
11031	234678-HxCDF	60851-34-5	0.0658	JBQ	0.0259	5.54	1
11031	1234678-HpCDF	67562-39-4	0.303	JBQ	0.0199	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0482	JBQ	0.0305	5.54	1
11031	OCDF	39001-02-0	0.390	JB	0.0631	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-234-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180130
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3620 SDG#: DX036-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-234-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-234-SA5B-SB-2.5-3.5

LLI Sample # SW 6180130
LLI Group # 1228358
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/07/2011 15:09

Submitted: 01/08/2011 10:00
Reported: 02/08/2011 22:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3620 SDG#: DX036-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 19:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401A	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228358
Reported: 02/08/11 at 10:06 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11018162401A	Sample number(s): 6180119-6180130								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11021001	Sample number(s): 6180119-6180130								
2378-TCDD	0.0354 U	0.0354	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0366 U	0.0366	5.00	ng/kg	110		70-142		
123478-HxCDD	0.0249 U	0.0249	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0264 U	0.0264	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0280 J	0.0250	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.322 J	0.0353	5.00	ng/kg	108		70-140		
OCDD	0.950 J	0.0305	10.0	ng/kg	107		78-144		
2378-TCDF	0.0381 U	0.0381	1.00	ng/kg	123		75-158		
12378-PeCDF	0.0396 J	0.0179	5.00	ng/kg	110		80-134		
23478-PeCDF	0.111 J	0.0206	5.00	ng/kg	111		68-160		
123478-HxCDF	0.107 J	0.0271	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0673 J	0.0178	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0637 J	0.0274	5.00	ng/kg	105		78-130		
234678-HxCDF	0.106 J	0.0214	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.440 J	0.0167	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0720 J	0.0310	5.00	ng/kg	106		78-138		
OCDF	0.468 J	0.0558	10.0	ng/kg	107		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11018162401A	Sample number(s): 6180119-6180130					BKG: P180117			
28a Moisture Content by 160.3						9.7	9.9	2	20
Batch number: 11021001	Sample number(s): 6180119-6180130					UNSPK: P179388			
2378-TCDD	108	108	67-158	0	25				
12378-PeCDD	108	107	70-142	0	25				
123478-HxCDD	108	107	70-164	1	25				
123678-HxCDD	110	108	76-134	2	25				
123789-HxCDD	105	106	64-162	1	25				
1234678-HpCDD	107	107	70-140	1	25				
OCDD	104	104	78-144	0	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228358
Reported: 02/08/11 at 10:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	120	118	75-158	2	25				
12378-PeCDF	109	110	80-134	1	25				
23478-PeCDF	110	112	68-160	2	25				
123478-HxCDF	105	106	72-134	1	25				
123678-HxCDF	104	106	84-130	3	25				
123789-HxCDF	103	105	78-130	2	25				
234678-HxCDF	106	107	70-156	1	25				
1234678-HpCDF	103	106	82-122	3	25				
1234789-HpCDF	106	105	78-138	1	25				
OCDF	106	106	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11021001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6180119	67	75	73	80	72	74
6180120	76	83	74	87	76	75
6180121	70	71	62	78	67	61
6180122	65	71	65	76	68	66
6180123	74	82	78	88	79	81
6180124	76	82	77	84	80	86
6180125	62	67	62	72	65	62
6180126	96	101	80	101	95	92
6180127	76	88	76	82	84	87
6180128	77	75	62	74	75	80
6180129	60	64	59	68	62	64
6180130	73	74	58	77	74	73
Blank	75	71	57	82	70	65
MS	57	61	59	74	62	61
MSD	64	76	70	84	73	70
OPR	63	62	59	77	63	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6180119	88	74	73	84	81	74
6180120	100	76	71	89	87	79
6180121	96	60	55	84	81	73
6180122	96	70	66	87	79	71
6180123	97	83	82	88	87	82
6180124	91	87	83	86	87	82
6180125	86	64	62	75	74	69
6180126	111	96	90	107	107	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228358
Reported: 02/08/11 at 10:06 PM

Surrogate Quality Control

6180127	87	92	87	91	88	84
6180128	80	79	78	85	77	75
6180129	75	63	58	70	72	66
6180130	89	75	70	85	84	76
Blank	96	68	66	93	79	77
MS	88	61	60	73	68	66
MSD	97	76	72	85	83	75
OPR	90	57	56	82	67	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6180119	73	71	77	79	70	81
6180120	78	80	85	87	77	90
6180121	72	72	76	76	68	84
6180122	72	71	80	84	66	81
6180123	79	81	88	88	78	89
6180124	79	81	87	86	78	84
6180125	68	69	73	73	63	75
6180126	96	97	106	106	96	114
6180127	78	82	89	88	82	87
6180128	74	80	85	88	78	87
6180129	67	68	68	66	64	69
6180130	80	82	89	87	71	86
Blank	79	80	88	89	68	87
MS	64	67	73	74	57	73
MSD	75	75	83	83	68	88
OPR	70	72	74	73	61	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

A# 13013 G# 1228358 S# G180119-30

Amended COC

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers
Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6A7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	*VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-DRO EPA 8015B	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-058-SA5B-SB-4.0-5.0	01/07/11	0923	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-058-SA5B-SB-4.5	01/07/11	0920	SOIL	NONE	4 ENCORES											X	X												
SL-058-SA5B-SB-8.5-9.5	01/07/11	0928	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-060-SA5B-SB-4.0-5.0	01/07/11	1105	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-060-SA5B-SB-4.5	01/07/11	1101	SOIL	NONE	4 ENCORES											X	X												
SL-060-SA5B-SB-9.0-10.0	01/07/11	1110	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
EB19-SA5B-010711	01/07/11	1130	WATER	NONE	4 1L AMBERS															X			X	X		X			SUBSURFACE TOOL RINSATE
EB19-SA5B-010711	01/07/11	1130	WATER	HCl	6 40 mL VOAS													X										X	SUBSURFACE TOOL RINSATE
EB19-SA5B-010711	01/07/11	1130	WATER	NONE	4 40 mL VOAS																X						X		SUBSURFACE TOOL RINSATE
EB19-SA5B-010711	01/07/11	1130	WATER	NONE	1-250 mL glass bottle														X			X							SUBSURFACE TOOL RINSATE
EB19-SA5B-010711	01/07/11	1130	WATER	NaOH	1-500 mL poly																				X				SUBSURFACE TOOL RINSATE
SL-055-SA5B-SB-4.0-5.0	01/07/11	1216	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-055-SA5B-SB-4.5	01/07/11	1212	SOIL	NONE	4 ENCORES											X	X												
SL-055-SA5B-SB-8.5-9.5	01/07/11	1222	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X																
SL-062-SA5B-SB-4.0-5.0	01/07/11	1404	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-062-SA5B-SB-4.5	01/07/11	1400	SOIL	NONE	4 ENCORES											X	X												
SL-062-SA5B-SB-9.0-10.0	01/07/11	1409	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-056-SA5B-SB-4.0-5.0	01/07/11	1349	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-056-SA5B-SB-4.5	01/07/11	1345	SOIL	NONE	4 ENCORES											X	X												
SL-056-SA5B-SB-9.0-10.0	01/07/11	1353	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-061-SA5B-SB-3.0	01/07/11	1600	SOIL	NONE	4 ENCORES											X	X												
SL-061-SA5B-SB-3.5-4.5	01/07/11	1605	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-234-SA5B-SB-3.0	01/07/11	1505	SOIL	NONE	4 ENCORES											X	X												
SL-234-SA5B-SB-2.5-3.5	01/07/11	1509	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
TB-010711	01/07/11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X												

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	1/7/2011, 16:30		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	No. of coolers = 2
		8895 1432 2843, ...2832	

acct#13013 Cap#1228358 Sample#6180119-30

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	*VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-059-SA2B-SB-4.0-5.0	01.07.11	0823	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-059-SA5B-SB-4.5	01.07.11	0825	SOIL	NONE	4 ENCORES											X	X												
SL-059-SA5B-SB-9.0-10.0	01.07.11	0828	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-060-SA5B-SB-4.0-5.0	01.07.11	1105	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-060-SA5B-SB-4.5	01.07.11	1101	SOIL	NONE	4 ENCORES											X	X												
SL-060-SA5B-SB-9.0-10.0	01.07.11	1110	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
EB18-SA5B-010711	01.07.11	1130	WATER	NONE	4 1L AMBERS															X			X	X		X			SUBSURFACE TOOL RINSATE
EB18-SA5B-010711	01.07.11	1130	WATER	HCl	5 40 mL VOAS												X											X	SUBSURFACE TOOL RINSATE
EB18-SA5B-010711	01.07.11	1130	WATER	NONE	4 40 mL VOAS																X						X		SUBSURFACE TOOL RINSATE
EB18-SA5B-010711	01.07.11	1130	WATER	NONE	1-250 mL glass bottle														X			X							SUBSURFACE TOOL RINSATE
EB18-SA5B-010711	01.07.11	1130	WATER	NaOH	1-500 mL poly																					X			SUBSURFACE TOOL RINSATE
SL-055-SA5B-SB-4.0-5.0	01.07.11	1216	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-055-SA5B-SB-4.5	01.07.11	1212	SOIL	NONE	4 ENCORES											X	X												
SL-055-SA5B-SB-8.5-9.5	01.07.11	1222	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X																
SL-062-SA5B-SB-4.0-5.0	01.07.11	1404	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-062-SA5B-SB-4.5	01.07.11	1408	SOIL	NONE	4 ENCORES											X	X												
SL-062-SA5B-SB-9.0-10.0	01.07.11	1409	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-056-SA5B-SB-4.0-5.0	01.07.11	1349	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-056-SA5B-SB-4.5	01.07.11	1345	SOIL	NONE	4 ENCORES											X	X												
SL-056-SA5B-SB-9.0-10.0	01.07.11	1353	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-061-SA5B-SB-4.0	01.07.11	1600	SOIL	NONE	4 ENCORES											X	X												
SL-061-SA5B-SB-3.5-4.5	01.07.11	1605	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-234-SA5B-SB-3.0	01.07.11	1505	SOIL	NONE	4 ENCORES											X	X												
SL-234-SA5B-SB-2.5-3.5	01.07.11	1509	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
TB-010711	01.07.11	0800	WATER	HCl	4 40 mL VOA VIALS											X	X												

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		
	1/7/2011, 16:30	Katie Hartley	1/8/11	10:00
Received by: (Signature)	Date/Time	Airbill No.(s)		
Katie Hartley	1/8/11 10:20	8695 1432 2843 2832		

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/11/2011
Group Number: 1228523
SDG: DE056
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-107-SA5B-SB-4.0-5.0 Soil	6180996
SL-053-SA5B-SB-1.8-2.8 Soil	6180997
SL-054-SA5B-SB-3.0-4.0 Soil	6180998
SL-110-SA5B-SB-4.0-5.0 Soil	6180999
SL-105-SA5B-SB-4.0-5.0 Soil	6181000
SL-109-SA5B-SB-4.0-5.0 Soil	6181001
SL-240-SA5B-SB-4.0-5.0 Soil	6181002
SL-240-SA5B-SB-9.0-10.0 Soil	6181003
SL-106-SA5B-SB-4.0-5.0 Soil	6181004
SL-108-SA5B-SB-4.0-5.0 Soil	6181005
SL-111-SA5B-SB-4.0-5.0 Soil	6181006
SL-111-SA5B-SB-9.0-10.0 Soil	6181007
TB-011011 Water	6181008

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6180996
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE056-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.5	U	6.5	7.8	0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8	0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.84
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9	0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9	0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9	0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9	0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9	0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.84
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9	0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8	0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8	0.84
06192	Methylene Chloride	75-09-2	1.1	J	0.23	3.9	0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.84

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6180996
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE056-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9	0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9	0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9	0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9	0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	22.01
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6180996
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE056-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6180996
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE056-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,900		5.67	22.6	1
07914	Boron	7440-42-8	3.75	J	1.00	5.64	1
01650	Calcium	7440-70-2	2,830		6.92	22.6	1
01654	Iron	7439-89-6	26,200		5.31	22.6	1
01656	Lithium	7439-93-2	32.2		0.25	2.3	1
01657	Magnesium	7439-95-4	5,290		2.87	11.3	1
06958	Manganese	7439-96-5	275		0.0880	0.564	1
10145	Phosphorus	7723-14-0	160		0.632	11.3	1
01662	Potassium	7440-09-7	2,020		20.3	56.4	1
01667	Sodium	7440-23-5	215		42.1	113	1
07968	Strontium	7440-24-6	26.7		0.0699	0.564	1
06969	Tin	7440-31-5	2.74	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,430		0.429	1.13	1
10146	Zirconium	7440-67-7	3.52	J	0.948	5.64	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0690	0.230	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.44		0.0921	0.460	2
06126	Barium	7440-39-3	123		0.124	0.460	2
06127	Beryllium	7440-41-7	0.896		0.0184	0.115	2
06128	Cadmium	7440-43-9	0.0613	J	0.0460	0.115	2
06131	Chromium	7440-47-3	25.3		0.138	0.460	2
06132	Cobalt	7440-48-4	5.92		0.0230	0.115	2
06133	Copper	7440-50-8	8.40		0.0759	0.460	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6180996
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE056-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	7.03	0.0120	0.230	2
06138	Molybdenum	7439-98-7	0.706	0.0575	0.115	2
06139	Nickel	7440-02-0	13.2	0.115	0.460	2
06141	Selenium	7782-49-2	0.0617 J	0.0460	0.460	2
06142	Silver	7440-22-4	0.0643 J	0.0138	0.115	2
06145	Thallium	7440-28-0	0.308	0.0345	0.115	2
06148	Vanadium	7440-62-2	48.0	0.0253	0.115	2
06149	Zinc	7440-66-6	55.3	0.644	3.45	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	433	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.24	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-107-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6180996
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE056-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 20:30	Laura M Krieger	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 17:17	Jason M Long	22.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:10	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:05	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:05	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:05	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 00:44	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 09:50	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 15:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:24	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 22:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 11:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:27	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 11:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 11:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6180996
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL107 SDG#: DE056-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 11:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 18:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11019621201A	01/24/2011 17:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243201A	02/03/2011 14:04	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-053-SA5B-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6180997
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE056-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.2	U	7.2	8.7	0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.96
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3	0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.96
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7	0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.3	0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.96
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3	0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.96
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3	0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3	0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.96
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3	0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.3	0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.96
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7	0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.3	0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3	0.96
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7	0.96
06192	Methylene Chloride	75-09-2	0.67	J	0.26	4.3	0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3	0.96

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5B-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6180997
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE056-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3	0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3	0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.3	0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3	0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.96
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3	0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3	0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3	0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	24.46
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	37	U	37	190	1
04688	Carbazole	86-74-8	37	U	37	190	1
04688	4-Chloro-3-methylphenol	59-50-7	75	U	75	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	37	U	37	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	37	U	37	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	37	U	37	190	1
04688	2-Chloronaphthalene	91-58-7	37	U	37	190	1
04688	2-Chlorophenol	95-57-8	37	U	37	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	37	U	37	190	1
04688	1,2-Dichlorobenzene	95-50-1	37	U	37	190	1
04688	1,3-Dichlorobenzene	541-73-1	37	U	37	190	1
04688	1,4-Dichlorobenzene	106-46-7	37	U	37	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	37	U	37	190	1
04688	2,4-Dimethylphenol	105-67-9	75	U	75	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	75	U	75	190	1
04688	2,6-Dinitrotoluene	606-20-2	37	U	37	190	1
04688	1,2-Diphenylhydrazine	122-66-7	37	U	37	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5B-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6180997
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE056-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	37	U	37	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	37	U	37	190	1
04688	Isophorone	78-59-1	37	U	37	190	1
04688	2-Methylphenol	95-48-7	75	U	75	190	1
04688	4-Methylphenol	106-44-5	75	U	75	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	37	U	37	190	1
04688	3-Nitroaniline	99-09-2	75	U	75	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	37	U	37	190	1
04688	2-Nitrophenol	88-75-5	37	U	37	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	37	U	37	190	1
04688	N-Nitrosodiphenylamine	86-30-6	37	U	37	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	37	U	37	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	37	U	37	190	1
04688	2,4,5-Trichlorophenol	95-95-4	75	U	75	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	2.0		0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	4.3		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.5	J	6.7	20	1
10138	Fluoranthene	206-44-0	2.4		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	J	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA5B-SB-1.8-2.8 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6180997
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE056-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	1.1	J	0.75	1.9	1
10138	Pyrene	129-00-0	2.4		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.57	J	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.54	22.0	1
07914	Boron	7440-42-8	2.96	J	0.980	5.51	1
01650	Calcium	7440-70-2	31,600		6.75	22.0	1
01654	Iron	7439-89-6	21,700		5.19	22.0	1
01656	Lithium	7439-93-2	21.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,710		2.80	11.0	1
06958	Manganese	7439-96-5	263		0.0859	0.551	1
10145	Phosphorus	7723-14-0	481		0.617	11.0	1
01662	Potassium	7440-09-7	3,090		19.8	55.1	1
01667	Sodium	7440-23-5	287		41.1	110	1
07968	Strontium	7440-24-6	104		0.0683	0.551	1
06969	Tin	7440-31-5	2.47	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,150		0.419	1.10	1
10146	Zirconium	7440-67-7	6.11		0.925	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.158	J	0.0648	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.60		0.0864	0.432	2
06126	Barium	7440-39-3	131		0.117	0.432	2
06127	Beryllium	7440-41-7	0.495		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.140		0.0432	0.108	2
06131	Chromium	7440-47-3	23.4		0.130	0.432	2
06132	Cobalt	7440-48-4	6.48		0.0216	0.108	2
06133	Copper	7440-50-8	13.7		0.0713	0.432	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5B-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6180997
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE056-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	5.43	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.887	0.0540	0.108	2
06139	Nickel	7440-02-0	12.0	0.108	0.432	2
06141	Selenium	7782-49-2	0.0802 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0545 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.276	0.0324	0.108	2
06148	Vanadium	7440-62-2	44.5	0.0238	0.108	2
06149	Zinc	7440-66-6	102	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0168 J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1 J	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	339	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.80	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-053-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5B-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6180997
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE056-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 20:52	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 17:37	Jason M Long	24.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:14	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:05	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:05	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:12	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 02:28	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 11:31	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 16:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:27	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 22:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:29	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 10:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA5B-SB-1.8-2.8 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6180997
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE056-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 10:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 18:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 20:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243201A	02/03/2011 14:16	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-054-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6180998
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE056-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5	0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.2	0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2	0.92
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5	0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2	0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.92
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2	0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.92
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2	0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2	0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2	0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2	0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.92
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5	0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5	0.92
06192	Methylene Chloride	75-09-2	1.6	J	0.25	4.2	0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.92

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6180998
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE056-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2	0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.92
06192	Toluene	108-88-3	0.09	U	0.09	4.2	0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.92
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2	0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2	0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2	0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2	0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.82
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	38	U	38	190	1
04688	Carbazole	86-74-8	38	U	38	190	1
04688	4-Chloro-3-methylphenol	59-50-7	77	U	77	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	38	U	38	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	38	U	38	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	38	U	38	190	1
04688	2-Chloronaphthalene	91-58-7	38	U	38	190	1
04688	2-Chlorophenol	95-57-8	38	U	38	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	38	U	38	190	1
04688	1,2-Dichlorobenzene	95-50-1	38	U	38	190	1
04688	1,3-Dichlorobenzene	541-73-1	38	U	38	190	1
04688	1,4-Dichlorobenzene	106-46-7	38	U	38	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	38	U	38	190	1
04688	2,4-Dimethylphenol	105-67-9	77	U	77	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	77	U	77	190	1
04688	2,6-Dinitrotoluene	606-20-2	38	U	38	190	1
04688	1,2-Diphenylhydrazine	122-66-7	38	U	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6180998
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE056-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	38	U	38	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	38	U	38	190	1
04688	Isophorone	78-59-1	38	U	38	190	1
04688	2-Methylphenol	95-48-7	77	U	77	190	1
04688	4-Methylphenol	106-44-5	77	U	77	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	38	U	38	190	1
04688	3-Nitroaniline	99-09-2	77	U	77	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	38	U	38	190	1
04688	2-Nitrophenol	88-75-5	38	U	38	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	38	U	38	190	1
04688	N-Nitrosodiphenylamine	86-30-6	38	U	38	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	38	U	38	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	38	U	38	190	1
04688	2,4,5-Trichlorophenol	95-95-4	77	U	77	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.95	J	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6180998
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE056-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.68	J	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.79	23.0	1
07914	Boron	7440-42-8	1.99	J	1.03	5.76	1
01650	Calcium	7440-70-2	9,590		7.06	23.0	1
01654	Iron	7439-89-6	20,400		5.43	23.0	1
01656	Lithium	7439-93-2	22.8		0.25	2.3	1
01657	Magnesium	7439-95-4	4,340		2.93	11.5	1
06958	Manganese	7439-96-5	331		0.0899	0.576	1
10145	Phosphorus	7723-14-0	407		0.645	11.5	1
01662	Potassium	7440-09-7	3,070		20.7	57.6	1
01667	Sodium	7440-23-5	277		43.0	115	1
07968	Strontium	7440-24-6	39.8		0.0714	0.576	1
06969	Tin	7440-31-5	2.40	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,300		0.438	1.15	1
10146	Zirconium	7440-67-7	4.15	J	0.968	5.76	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0671	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.21		0.0895	0.447	2
06126	Barium	7440-39-3	134		0.121	0.447	2
06127	Beryllium	7440-41-7	0.652		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.118		0.0447	0.112	2
06131	Chromium	7440-47-3	24.8		0.134	0.447	2
06132	Cobalt	7440-48-4	7.22		0.0224	0.112	2
06133	Copper	7440-50-8	12.1		0.0738	0.447	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6180998
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE056-03

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	6.35		0.0116	0.224	2
06138	Molybdenum		7439-98-7	0.819		0.0559	0.112	2
06139	Nickel		7440-02-0	14.3		0.112	0.447	2
06141	Selenium		7782-49-2	0.110	J	0.0447	0.447	2
06142	Silver		7440-22-4	0.0518	J	0.0134	0.112	2
06145	Thallium		7440-28-0	0.330		0.0336	0.112	2
06148	Vanadium		7440-62-2	51.6		0.0246	0.112	2
06149	Zinc		7440-66-6	62.6		0.626	3.36	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0116	J	0.0031	0.107	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.92	U	0.92	1.2	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.4	U	10.4	34.6	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.68	J	0.23	1.2	1
		ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	358		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	9.63		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	13.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-054-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6180998
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE056-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 21:15	Laura M Krieger	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 17:56	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:19	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:05	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:05	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:16	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 03:02	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 12:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 17:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:37	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 22:53	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 10:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:31	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 10:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 10:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6180998
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE056-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 10:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 19:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 21:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243201A	02/03/2011 14:41	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-110-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6180999
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL110 SDG#: DE056-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.0	U	8.0	9.5	1.12
06192	Benzene	71-43-2	0.12	U	0.12	4.8	1.12
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.8	1.12
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8	1.12
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.8	1.12
06192	Bromoform	75-25-2	0.48	U	0.48	4.8	1.12
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8	1.12
06192	2-Butanone	78-93-3	1.5	U	1.5	9.5	1.12
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8	1.12
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8	1.12
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8	1.12
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8	1.12
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8	1.12
06192	Chloroethane	75-00-3	0.15	U	0.15	4.8	1.12
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8	1.12
06192	Chloroform	67-66-3	0.14	U	0.14	4.8	1.12
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8	1.12
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8	1.12
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8	1.12
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9	1.12
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.83	U	0.83	4.8	1.12
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8	1.12
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8	1.12
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8	1.12
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8	1.12
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8	1.12
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8	1.12
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8	1.12
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8	1.12
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8	1.12
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.8	1.12
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8	1.12
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8	1.12
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8	1.12
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.8	1.12
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8	1.12
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.8	1.12
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8	1.12
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8	1.12
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8	1.12
06192	Freon 113	76-13-1	0.13	U	0.13	4.8	1.12
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9	1.12
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8	1.12
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.5	1.12
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8	1.12
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8	1.12
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8	1.12
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.5	1.12
06192	Methylene Chloride	75-09-2	0.79	J	0.29	4.8	1.12
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8	1.12

*=This limit was used in the evaluation of the final result

Sample Description: SL-110-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6180999
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL110 SDG#: DE056-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8	1.12
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8	1.12
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.8	1.12
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8	1.12
06192	Toluene	108-88-3	0.09	U	0.09	4.8	1.12
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8	1.12
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.8	1.12
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8	1.12
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8	1.12
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8	1.12
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.8	1.12
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8	1.12
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8	1.12
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8	1.12
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8	1.12
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8	1.12
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8	1.12
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	24.18
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	35	U	35	180	1
04688	Carbazole	86-74-8	35	U	35	180	1
04688	4-Chloro-3-methylphenol	59-50-7	71	U	71	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	35	U	35	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	35	U	35	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	35	U	35	180	1
04688	2-Chloronaphthalene	91-58-7	35	U	35	180	1
04688	2-Chlorophenol	95-57-8	35	U	35	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	35	U	35	180	1
04688	1,2-Dichlorobenzene	95-50-1	35	U	35	180	1
04688	1,3-Dichlorobenzene	541-73-1	35	U	35	180	1
04688	1,4-Dichlorobenzene	106-46-7	35	U	35	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	35	U	35	180	1
04688	2,4-Dimethylphenol	105-67-9	71	U	71	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	2,100	1
04688	2,4-Dinitrotoluene	121-14-2	71	U	71	180	1
04688	2,6-Dinitrotoluene	606-20-2	35	U	35	180	1
04688	1,2-Diphenylhydrazine	122-66-7	35	U	35	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-110-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6180999
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL110 SDG#: DE056-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	35	U	35	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	35	U	35	180	1
04688	Isophorone	78-59-1	35	U	35	180	1
04688	2-Methylphenol	95-48-7	71	U	71	180	1
04688	4-Methylphenol	106-44-5	71	U	71	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	35	U	35	180	1
04688	3-Nitroaniline	99-09-2	71	U	71	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	35	U	35	180	1
04688	2-Nitrophenol	88-75-5	35	U	35	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	35	U	35	180	1
04688	N-Nitrosodiphenylamine	86-30-6	35	U	35	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	35	U	35	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	35	U	35	180	1
04688	2,4,5-Trichlorophenol	95-95-4	71	U	71	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6180999
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL110 SDG#: DE056-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.35	21.3	1
07914	Boron	7440-42-8	2.35	J	0.947	5.32	1
01650	Calcium	7440-70-2	2,430		6.52	21.3	1
01654	Iron	7439-89-6	21,400		5.01	21.3	1
01656	Lithium	7439-93-2	27.1		0.23	2.1	1
01657	Magnesium	7439-95-4	4,510		2.70	10.6	1
06958	Manganese	7439-96-5	334		0.0830	0.532	1
10145	Phosphorus	7723-14-0	155		0.596	10.6	1
01662	Potassium	7440-09-7	1,810		19.1	53.2	1
01667	Sodium	7440-23-5	162		39.7	106	1
07968	Strontium	7440-24-6	20.9		0.0660	0.532	1
06969	Tin	7440-31-5	2.44	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,270		0.404	1.06	1
10146	Zirconium	7440-67-7	3.10	J	0.894	5.32	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0626	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.35		0.0834	0.417	2
06126	Barium	7440-39-3	170		0.113	0.417	2
06127	Beryllium	7440-41-7	0.962		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.103	J	0.0417	0.104	2
06131	Chromium	7440-47-3	33.9		0.125	0.417	2
06132	Cobalt	7440-48-4	7.38		0.0209	0.104	2
06133	Copper	7440-50-8	12.0		0.0688	0.417	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-110-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6180999
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL110 SDG#: DE056-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.95	0.0108	0.209	2
06138	Molybdenum	7439-98-7	0.798	0.0521	0.104	2
06139	Nickel	7440-02-0	19.1	0.104	0.417	2
06141	Selenium	7782-49-2	0.0628 J	0.0417	0.417	2
06142	Silver	7440-22-4	0.0679 J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.358	0.0313	0.104	2
06148	Vanadium	7440-62-2	62.1	0.0229	0.104	2
06149	Zinc	7440-66-6	78.1	0.584	3.13	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193 J	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.85	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	31.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.21	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	440	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.40	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-110-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-110-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6180999
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL110 SDG#: DE056-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 21:37	Laura M Krieger	1.12
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 18:16	Jason M Long	24.18
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:23	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:04	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:05	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:21	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 03:36	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 12:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 17:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:02	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 22:13	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 10:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:33	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 10:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 10:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-110-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6180999
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL110 SDG#: DE056-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 10:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 19:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 21:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243201A	02/03/2011 14:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-105-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181000
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE056-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.6	U	6.6	7.9	0.88
06192	Benzene	71-43-2	0.1	U	0.1	4.0	0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.88
06192	Bromoform	75-25-2	0.39	U	0.39	4.0	0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9	0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9	0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0	0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0	0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9	0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9	0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9	0.88
06192	Methylene Chloride	75-09-2	1.4	J	0.24	4.0	0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.88

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181000
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE056-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0	0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0	0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	4.0	0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0	0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16	23.95
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	37	U	37	190	1
04688	Carbazole	86-74-8	37	U	37	190	1
04688	4-Chloro-3-methylphenol	59-50-7	75	U	75	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	37	U	37	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	37	U	37	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	37	U	37	190	1
04688	2-Chloronaphthalene	91-58-7	37	U	37	190	1
04688	2-Chlorophenol	95-57-8	37	U	37	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	37	U	37	190	1
04688	1,2-Dichlorobenzene	95-50-1	37	U	37	190	1
04688	1,3-Dichlorobenzene	541-73-1	37	U	37	190	1
04688	1,4-Dichlorobenzene	106-46-7	37	U	37	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	37	U	37	190	1
04688	2,4-Dimethylphenol	105-67-9	75	U	75	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	75	U	75	190	1
04688	2,6-Dinitrotoluene	606-20-2	37	U	37	190	1
04688	1,2-Diphenylhydrazine	122-66-7	37	U	37	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181000
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE056-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	37	U	37	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	37	U	37	190	1
04688	Isophorone	78-59-1	37	U	37	190	1
04688	2-Methylphenol	95-48-7	75	U	75	190	1
04688	4-Methylphenol	106-44-5	75	U	75	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	37	U	37	190	1
04688	3-Nitroaniline	99-09-2	75	U	75	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	37	U	37	190	1
04688	2-Nitrophenol	88-75-5	37	U	37	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	37	U	37	190	1
04688	N-Nitrosodiphenylamine	86-30-6	37	U	37	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	37	U	37	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	37	U	37	190	1
04688	2,4,5-Trichlorophenol	95-95-4	75	U	75	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181000
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE056-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,500		5.55	22.1	1
07914	Boron	7440-42-8	4.10	J	0.981	5.51	1
01650	Calcium	7440-70-2	2,790		6.76	22.1	1
01654	Iron	7439-89-6	26,600		5.19	22.1	1
01656	Lithium	7439-93-2	33.7		0.24	2.2	1
01657	Magnesium	7439-95-4	5,190		2.80	11.0	1
06958	Manganese	7439-96-5	225		0.0860	0.551	1
10145	Phosphorus	7723-14-0	114		0.618	11.0	1
01662	Potassium	7440-09-7	1,620		19.9	55.1	1
01667	Sodium	7440-23-5	685		41.1	110	1
07968	Strontium	7440-24-6	27.4		0.0684	0.551	1
06969	Tin	7440-31-5	2.67	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,360		0.419	1.10	1
10146	Zirconium	7440-67-7	3.19	J	0.926	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.357		0.0668	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.7		0.0891	0.445	2
06126	Barium	7440-39-3	136		0.120	0.445	2
06127	Beryllium	7440-41-7	1.02		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0856	J	0.0445	0.111	2
06131	Chromium	7440-47-3	35.1		0.134	0.445	2
06132	Cobalt	7440-48-4	10.7		0.0223	0.111	2
06133	Copper	7440-50-8	11.6		0.0735	0.445	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181000
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE056-05

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	11.0		0.0116	0.223	2
06138	Molybdenum		7439-98-7	0.903		0.0557	0.111	2
06139	Nickel		7440-02-0	18.0		0.111	0.445	2
06141	Selenium		7782-49-2	0.158	J	0.0445	0.445	2
06142	Silver		7440-22-4	0.0840	J	0.0134	0.111	2
06145	Thallium		7440-28-0	0.358		0.0334	0.111	2
06148	Vanadium		7440-62-2	66.9		0.0245	0.111	2
06149	Zinc		7440-66-6	74.8		0.624	3.34	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0083	J	0.0031	0.108	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	6.7		0.90	1.1	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.7	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1	1
		ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	455		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.91		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	11.1		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-105-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181000
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE056-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 22:00	Laura M Krieger	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 18:36	Jason M Long	23.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:34	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:05	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:04	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:31	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 04:11	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 13:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 17:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:41	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 22:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 10:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:38	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 10:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 10:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-105-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181000
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL105 SDG#: DE056-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 10:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 19:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 21:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243201A	02/03/2011 15:00	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181001
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE056-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.3	U	6.3	7.5	0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8	0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8	0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8	0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8	0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8	0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.8	0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5	0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8	0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8	0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8	0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8	0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8	0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8	0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8	0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8	0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8	0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8	0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8	0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7	0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8	0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8	0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8	0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8	0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.8	0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8	0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8	0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8	0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8	0.83
06192	1,2-Dichloroethane	107-06-2	0.19	J	0.14	3.8	0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8	0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8	0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8	0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8	0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8	0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8	0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8	0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8	0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8	0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8	0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.8	0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7	0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8	0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5	0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8	0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8	0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8	0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5	0.83
06192	Methylene Chloride	75-09-2	1.0	J	0.23	3.8	0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8	0.83

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181001
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE056-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8	0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8	0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8	0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8	0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.8	0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8	0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8	0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8	0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.8	0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8	0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8	0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8	0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8	0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8	0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8	0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8	0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8	0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	20.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	38	U	38	190	1
04688	Carbazole	86-74-8	38	U	38	190	1
04688	4-Chloro-3-methylphenol	59-50-7	75	U	75	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	38	U	38	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	38	U	38	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	38	U	38	190	1
04688	2-Chloronaphthalene	91-58-7	38	U	38	190	1
04688	2-Chlorophenol	95-57-8	38	U	38	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	38	U	38	190	1
04688	1,2-Dichlorobenzene	95-50-1	38	U	38	190	1
04688	1,3-Dichlorobenzene	541-73-1	38	U	38	190	1
04688	1,4-Dichlorobenzene	106-46-7	38	U	38	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	38	U	38	190	1
04688	2,4-Dimethylphenol	105-67-9	75	U	75	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	75	U	75	190	1
04688	2,6-Dinitrotoluene	606-20-2	38	U	38	190	1
04688	1,2-Diphenylhydrazine	122-66-7	38	U	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181001
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE056-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	38	U	38	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	38	U	38	190	1
04688	Isophorone	78-59-1	38	U	38	190	1
04688	2-Methylphenol	95-48-7	75	U	75	190	1
04688	4-Methylphenol	106-44-5	75	U	75	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	38	U	38	190	1
04688	3-Nitroaniline	99-09-2	75	U	75	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	38	U	38	190	1
04688	2-Nitrophenol	88-75-5	38	U	38	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	38	U	38	190	1
04688	N-Nitrosodiphenylamine	86-30-6	38	U	38	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	38	U	38	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	38	U	38	190	1
04688	2,4,5-Trichlorophenol	95-95-4	75	U	75	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181001
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE056-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,500		5.51	21.9	1
07914	Boron	7440-42-8	0.974	U	0.974	5.47	1
01650	Calcium	7440-70-2	2,810		6.71	21.9	1
01654	Iron	7439-89-6	25,000		5.16	21.9	1
01656	Lithium	7439-93-2	32.0		0.24	2.2	1
01657	Magnesium	7439-95-4	5,230		2.78	10.9	1
06958	Manganese	7439-96-5	355		0.0854	0.547	1
10145	Phosphorus	7723-14-0	231		0.613	10.9	1
01662	Potassium	7440-09-7	1,920		19.7	54.7	1
01667	Sodium	7440-23-5	208		40.8	109	1
07968	Strontium	7440-24-6	24.1		0.0679	0.547	1
06969	Tin	7440-31-5	2.62	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,340		0.416	1.09	1
10146	Zirconium	7440-67-7	3.61	J	0.919	5.47	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	0.0657	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.43		0.0876	0.438	2
06126	Barium	7440-39-3	125		0.118	0.438	2
06127	Beryllium	7440-41-7	0.751		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.0651	J	0.0438	0.109	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181001
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE056-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	23.9	0.131	0.438	2
06132	Cobalt	7440-48-4	8.12	0.0219	0.109	2
06133	Copper	7440-50-8	7.80	0.0722	0.438	2
06135	Lead	7439-92-1	6.80	0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.681	0.0547	0.109	2
06139	Nickel	7440-02-0	14.0	0.109	0.438	2
06141	Selenium	7782-49-2	0.133 J	0.0438	0.438	2
06142	Silver	7440-22-4	0.0362 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.261	0.0328	0.109	2
06148	Vanadium	7440-62-2	49.2	0.0241	0.109	2
06149	Zinc	7440-66-6	59.8	0.613	3.28	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	467	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.84	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-109-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181001
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE056-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 22:22	Laura M Krieger	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 18:56	Jason M Long	20.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:39	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:04	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:04	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:36	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 04:45	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 13:46	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 16:05	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 18:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:45	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 23:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 10:54	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181001
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL109 SDG#: DE056-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 10:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 19:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 22:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243201A	02/03/2011 15:19	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-240-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181002
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2404 SDG#: DE056-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4	U	8.4	10	1.1
06192	Benzene	71-43-2	0.13	U	0.13	5.0	1.1
06192	Bromobenzene	108-86-1	0.16	U	0.16	5.0	1.1
06192	Bromochloromethane	74-97-5	0.41	U	0.41	5.0	1.1
06192	Bromodichloromethane	75-27-4	0.10	U	0.10	5.0	1.1
06192	Bromoform	75-25-2	0.50	U	0.50	5.0	1.1
06192	Bromomethane	74-83-9	0.31	U	0.31	5.0	1.1
06192	2-Butanone	78-93-3	1.5	U	1.5	10	1.1
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	5.0	1.1
06192	sec-Butylbenzene	135-98-8	0.08	U	0.08	5.0	1.1
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	5.0	1.1
06192	Carbon Tetrachloride	56-23-5	0.18	U	0.18	5.0	1.1
06192	Chlorobenzene	108-90-7	0.14	U	0.14	5.0	1.1
06192	Chloroethane	75-00-3	0.16	U	0.16	5.0	1.1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.38	U	0.38	5.0	1.1
06192	Chloroform	67-66-3	0.15	U	0.15	5.0	1.1
06192	Chloromethane	74-87-3	0.41	U	0.41	5.0	1.1
06192	2-Chlorotoluene	95-49-8	0.18	U	0.18	5.0	1.1
06192	4-Chlorotoluene	106-43-4	0.18	U	0.18	5.0	1.1
06192	Chlorotrifluoroethene	79-38-9	0.63	U	0.63	6.3	1.1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.88	U	0.88	5.0	1.1
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	5.0	1.1
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	5.0	1.1
06192	Dibromomethane	74-95-3	0.30	U	0.30	5.0	1.1
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	5.0	1.1
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	5.0	1.1
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	5.0	1.1
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	5.0	1.1
06192	1,1-Dichloroethane	75-34-3	0.13	U	0.13	5.0	1.1
06192	1,2-Dichloroethane	107-06-2	0.19	U	0.19	5.0	1.1
06192	1,1-Dichloroethene	75-35-4	0.49	U	0.49	5.0	1.1
06192	cis-1,2-Dichloroethene	156-59-2	0.24	U	0.24	5.0	1.1
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	5.0	1.1
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	5.0	1.1
06192	1,3-Dichloropropane	142-28-9	0.10	U	0.10	5.0	1.1
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	5.0	1.1
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	5.0	1.1
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.0	1.1
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	5.0	1.1
06192	Ethylbenzene	100-41-4	0.08	U	0.08	5.0	1.1
06192	Freon 113	76-13-1	0.14	U	0.14	5.0	1.1
06192	Freon 133a	75-88-7	0.63	U	0.63	6.3	1.1
06192	Hexachlorobutadiene	87-68-3	0.18	U	0.18	5.0	1.1
06192	2-Hexanone	591-78-6	2.0	U	2.0	10	1.1
06192	Isopropylbenzene	98-82-8	0.08	U	0.08	5.0	1.1
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	5.0	1.1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	5.0	1.1
06192	4-Methyl-2-pentanone	108-10-1	0.49	U	0.49	10	1.1
06192	Methylene Chloride	75-09-2	2.3	J	0.30	5.0	1.1
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	5.0	1.1

*=This limit was used in the evaluation of the final result

Sample Description: SL-240-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181002
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2404 SDG#: DE056-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.13	U	0.13	5.0	1.1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	5.0	1.1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.29	U	0.29	5.0	1.1
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	5.0	1.1
06192	Toluene	108-88-3	0.10	U	0.10	5.0	1.1
06192	1,2,3-Trichlorobenzene	87-61-6	0.18	U	0.18	5.0	1.1
06192	1,2,4-Trichlorobenzene	120-82-1	0.23	U	0.23	5.0	1.1
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	5.0	1.1
06192	1,1,2-Trichloroethane	79-00-5	0.34	U	0.34	5.0	1.1
06192	Trichloroethene	79-01-6	0.19	U	0.19	5.0	1.1
06192	Trichlorofluoromethane	75-69-4	0.36	U	0.36	5.0	1.1
06192	1,2,3-Trichloropropane	96-18-4	0.41	U	0.41	5.0	1.1
06192	1,2,4-Trimethylbenzene	95-63-6	0.50	U	0.50	5.0	1.1
06192	1,3,5-Trimethylbenzene	108-67-8	0.13	U	0.13	5.0	1.1
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	5.0	1.1
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	5.0	1.1
06192	o-Xylene	95-47-6	0.21	U	0.21	5.0	1.1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.78
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	38	U	38	190	1
04688	Carbazole	86-74-8	38	U	38	190	1
04688	4-Chloro-3-methylphenol	59-50-7	76	U	76	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	38	U	38	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	38	U	38	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	38	U	38	190	1
04688	2-Chloronaphthalene	91-58-7	38	U	38	190	1
04688	2-Chlorophenol	95-57-8	38	U	38	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	38	U	38	190	1
04688	1,2-Dichlorobenzene	95-50-1	38	U	38	190	1
04688	1,3-Dichlorobenzene	541-73-1	38	U	38	190	1
04688	1,4-Dichlorobenzene	106-46-7	38	U	38	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	38	U	38	190	1
04688	2,4-Dimethylphenol	105-67-9	76	U	76	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	76	U	76	190	1
04688	2,6-Dinitrotoluene	606-20-2	38	U	38	190	1
04688	1,2-Diphenylhydrazine	122-66-7	38	U	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-240-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181002
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2404 SDG#: DE056-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	38	U	38	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	38	U	38	190	1
04688	Isophorone	78-59-1	38	U	38	190	1
04688	2-Methylphenol	95-48-7	76	U	76	190	1
04688	4-Methylphenol	106-44-5	76	U	76	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	38	U	38	190	1
04688	3-Nitroaniline	99-09-2	76	U	76	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	38	U	38	190	1
04688	2-Nitrophenol	88-75-5	38	U	38	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	38	U	38	190	1
04688	N-Nitrosodiphenylamine	86-30-6	38	U	38	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	38	U	38	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	38	U	38	190	1
04688	2,4,5-Trichlorophenol	95-95-4	76	U	76	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	6.3		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	7.3		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	11		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	4.1		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	3.9		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	7.9		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	7.6		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.6		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-240-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181002
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2404 SDG#: DE056-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	9.0		0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.60	U	0.60	1.9	1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.90	J	0.38	1.9	1
10225	PCB-1260	11096-82-5	3.9		0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		5.65	22.5	1
07914	Boron	7440-42-8	1.26	J	0.999	5.62	1
01650	Calcium	7440-70-2	3,480		6.88	22.5	1
01654	Iron	7439-89-6	21,400		5.29	22.5	1
01656	Lithium	7439-93-2	23.0		0.25	2.2	1
01657	Magnesium	7439-95-4	4,900		2.85	11.2	1
06958	Manganese	7439-96-5	310		0.0876	0.562	1
10145	Phosphorus	7723-14-0	446		0.629	11.2	1
01662	Potassium	7440-09-7	3,150		20.2	56.2	1
01667	Sodium	7440-23-5	168		41.9	112	1
07968	Strontium	7440-24-6	23.1		0.0696	0.562	1
06969	Tin	7440-31-5	2.38	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,320		0.427	1.12	1
10146	Zirconium	7440-67-7	2.97	J	0.943	5.62	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.280		0.0667	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.58		0.0890	0.445	2
06126	Barium	7440-39-3	134		0.120	0.445	2
06127	Beryllium	7440-41-7	0.653		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.184		0.0445	0.111	2
06131	Chromium	7440-47-3	21.6		0.133	0.445	2
06132	Cobalt	7440-48-4	8.48		0.0222	0.111	2
06133	Copper	7440-50-8	10.6		0.0734	0.445	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-240-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181002
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2404 SDG#: DE056-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	6.52		0.0116	0.222	2
06138	Molybdenum	7439-98-7	0.896		0.0556	0.111	2
06139	Nickel	7440-02-0	15.2		0.111	0.445	2
06141	Selenium	7782-49-2	0.115	J	0.0445	0.445	2
06142	Silver	7440-22-4	0.0423	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.292		0.0334	0.111	2
06148	Vanadium	7440-62-2	41.2		0.0245	0.111	2
06149	Zinc	7440-66-6	67.9		0.623	3.34	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0272	J	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	471		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.17		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-240-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181002
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2404 SDG#: DE056-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 22:44	Laura M Krieger	1.1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 19:15	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:04	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:04	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:40	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 05:19	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 14:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 18:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:49	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 23:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 10:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:20	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 10:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 10:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-240-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181002
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2404 SDG#: DE056-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 10:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 23:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 22:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243201A	02/03/2011 15:25	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-240-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181003
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2409 SDG#: DE056-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	37	U	37	180	1
04688	Carbazole	86-74-8	37	U	37	180	1
04688	4-Chloro-3-methylphenol	59-50-7	74	U	74	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	37	U	37	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	37	U	37	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	37	U	37	180	1
04688	2-Chloronaphthalene	91-58-7	37	U	37	180	1
04688	2-Chlorophenol	95-57-8	37	U	37	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	37	U	37	180	1
04688	1,2-Dichlorobenzene	95-50-1	37	U	37	180	1
04688	1,3-Dichlorobenzene	541-73-1	37	U	37	180	1
04688	1,4-Dichlorobenzene	106-46-7	37	U	37	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	37	U	37	180	1
04688	2,4-Dimethylphenol	105-67-9	74	U	74	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	74	U	74	180	1
04688	2,6-Dinitrotoluene	606-20-2	37	U	37	180	1
04688	1,2-Diphenylhydrazine	122-66-7	37	U	37	180	1
04688	Hexachlorobenzene	118-74-1	37	U	37	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	37	U	37	180	1
04688	Isophorone	78-59-1	37	U	37	180	1
04688	2-Methylphenol	95-48-7	74	U	74	180	1
04688	4-Methylphenol	106-44-5	74	U	74	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	37	U	37	180	1
04688	3-Nitroaniline	99-09-2	74	U	74	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	37	U	37	180	1
04688	2-Nitrophenol	88-75-5	37	U	37	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	37	U	37	180	1
04688	N-Nitrosodiphenylamine	86-30-6	37	U	37	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	37	U	37	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181003
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2409 SDG#: DE056-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	37	U	37	180	1
04688	2,4,5-Trichlorophenol	95-95-4	74	U	74	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.39	21.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181003
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2409 SDG#: DE056-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.954	U	0.954	5.36	1
01650	Calcium	7440-70-2	3,340		6.57	21.4	1
01654	Iron	7439-89-6	23,800		5.05	21.4	1
01656	Lithium	7439-93-2	24.1		0.24	2.1	1
01657	Magnesium	7439-95-4	5,490		2.72	10.7	1
06958	Manganese	7439-96-5	378		0.0836	0.536	1
10145	Phosphorus	7723-14-0	323		0.600	10.7	1
01662	Potassium	7440-09-7	1,780		19.3	53.6	1
01667	Sodium	7440-23-5	207		40.0	107	1
07968	Strontium	7440-24-6	19.5		0.0664	0.536	1
06969	Tin	7440-31-5	2.55	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,210		0.407	1.07	1
10146	Zirconium	7440-67-7	2.33	J	0.900	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0743	J	0.0662	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.45		0.0883	0.442	2
06126	Barium	7440-39-3	87.0		0.119	0.442	2
06127	Beryllium	7440-41-7	0.669		0.0177	0.110	2
06128	Cadmium	7440-43-9	0.0883	J	0.0442	0.110	2
06131	Chromium	7440-47-3	25.9		0.132	0.442	2
06132	Cobalt	7440-48-4	9.55		0.0221	0.110	2
06133	Copper	7440-50-8	9.78		0.0728	0.442	2
06135	Lead	7439-92-1	6.38		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.910		0.0552	0.110	2
06139	Nickel	7440-02-0	16.9		0.110	0.442	2
06141	Selenium	7782-49-2	0.0708	J	0.0442	0.442	2
06142	Silver	7440-22-4	0.0133	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.304		0.0331	0.110	2
06148	Vanadium	7440-62-2	42.7		0.0243	0.110	2
06149	Zinc	7440-66-6	75.1		0.618	3.31	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181003
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2409 SDG#: DE056-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	467	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.90	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 05:54	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 14:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 18:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-240-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181003
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2409 SDG#: DE056-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 23:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 10:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:42	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 10:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 10:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 10:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 23:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 22:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243201A	02/03/2011 15:37	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181004
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE056-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	9.4		7.4	8.8	1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.4	1.03
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	1.03
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4	1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	1.03
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	1.03
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4	1.03
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8	1.03
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4	1.03
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	1.03
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	1.03
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	1.03
06192	Chloroform	67-66-3	0.13	U	0.13	4.4	1.03
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4	1.03
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	1.03
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	1.03
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5	1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4	1.03
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4	1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.4	1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4	1.03
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	1.03
06192	1,2-Dichloroethane	107-06-2	0.37	J	0.17	4.4	1.03
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	1.03
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4	1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	1.03
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	1.03
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5	1.03
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8	1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	1.03
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	1.03
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8	1.03
06192	Methylene Chloride	75-09-2	0.68	J	0.27	4.4	1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	1.03

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181004
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE056-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	1.03
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	1.03
06192	Toluene	108-88-3	0.09	U	0.09	4.4	1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	1.03
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4	1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4	1.03
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	1.03
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4	1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	1.03
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4	1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16	24.9
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	36	U	36	180	1
04688	Carbazole	86-74-8	36	U	36	180	1
04688	4-Chloro-3-methylphenol	59-50-7	72	U	72	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	36	U	36	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	36	U	36	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	36	U	36	180	1
04688	2-Chloronaphthalene	91-58-7	36	U	36	180	1
04688	2-Chlorophenol	95-57-8	36	U	36	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	36	U	36	180	1
04688	1,2-Dichlorobenzene	95-50-1	36	U	36	180	1
04688	1,3-Dichlorobenzene	541-73-1	36	U	36	180	1
04688	1,4-Dichlorobenzene	106-46-7	36	U	36	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	36	U	36	180	1
04688	2,4-Dimethylphenol	105-67-9	72	U	72	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	72	U	72	180	1
04688	2,6-Dinitrotoluene	606-20-2	36	U	36	180	1
04688	1,2-Diphenylhydrazine	122-66-7	36	U	36	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181004
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE056-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	36	U	36	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	36	U	36	180	1
04688	Isophorone	78-59-1	36	U	36	180	1
04688	2-Methylphenol	95-48-7	72	U	72	180	1
04688	4-Methylphenol	106-44-5	72	U	72	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	36	U	36	180	1
04688	3-Nitroaniline	99-09-2	72	U	72	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	36	U	36	180	1
04688	2-Nitrophenol	88-75-5	36	U	36	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	36	U	36	180	1
04688	N-Nitrosodiphenylamine	86-30-6	36	U	36	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	36	U	36	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	36	U	36	180	1
04688	2,4,5-Trichlorophenol	95-95-4	72	U	72	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181004
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE056-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.35	U	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		5.25	20.9	1
07914	Boron	7440-42-8	0.929	U	0.929	5.22	1
01650	Calcium	7440-70-2	2,560		6.40	20.9	1
01654	Iron	7439-89-6	22,400		4.92	20.9	1
01656	Lithium	7439-93-2	33.8		0.23	2.1	1
01657	Magnesium	7439-95-4	5,000		2.65	10.4	1
06958	Manganese	7439-96-5	311		0.0814	0.522	1
10145	Phosphorus	7723-14-0	266		0.585	10.4	1
01662	Potassium	7440-09-7	1,910		18.8	52.2	1
01667	Sodium	7440-23-5	177		38.9	104	1
07968	Strontium	7440-24-6	18.9		0.0647	0.522	1
06969	Tin	7440-31-5	2.36	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,250		0.397	1.04	1
10146	Zirconium	7440-67-7	2.79	J	0.877	5.22	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0614	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.31		0.0819	0.410	2
06126	Barium	7440-39-3	102		0.111	0.410	2
06127	Beryllium	7440-41-7	0.670		0.0164	0.102	2
06128	Cadmium	7440-43-9	0.0494	J	0.0410	0.102	2
06131	Chromium	7440-47-3	22.4		0.123	0.410	2
06132	Cobalt	7440-48-4	8.93		0.0205	0.102	2
06133	Copper	7440-50-8	8.97		0.0676	0.410	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181004
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE056-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	6.46	0.0107	0.205	2
06138	Molybdenum	7439-98-7	0.644	0.0512	0.102	2
06139	Nickel	7440-02-0	13.6	0.102	0.410	2
06141	Selenium	7782-49-2	0.118 J	0.0410	0.410	2
06142	Silver	7440-22-4	0.0240 J	0.0123	0.102	2
06145	Thallium	7440-28-0	0.337	0.0307	0.102	2
06148	Vanadium	7440-62-2	44.5	0.0225	0.102	2
06149	Zinc	7440-66-6	59.3	0.573	3.07	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.86	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	504	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.78	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-106-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181004
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE056-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 23:06	Laura M Krieger	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 19:35	Jason M Long	24.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:48	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:04	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:03	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:45	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/22/2011 06:28	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 15:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 18:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 13:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 23:14	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 11:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:44	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 11:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 11:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-106-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181004
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL106 SDG#: DE056-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 11:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 23:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/19/2011 23:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243201A	02/03/2011 15:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201A	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101A	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401A	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181005
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE056-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.7	0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.98
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3	0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.98
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7	0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.3	0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.3	0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.98
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3	0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.98
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3	0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3	0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.98
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3	0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.3	0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.98
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7	0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.3	0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3	0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7	0.98
06192	Methylene Chloride	75-09-2	2.6	J	0.26	4.3	0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3	0.98

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181005
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE056-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3	0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3	0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.3	0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.3	0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3	0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3	0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3	0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3	0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14	21.89
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	37	U	37	180	1
04688	Carbazole	86-74-8	37	U	37	180	1
04688	4-Chloro-3-methylphenol	59-50-7	74	U	74	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	37	U	37	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	37	U	37	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	37	U	37	180	1
04688	2-Chloronaphthalene	91-58-7	37	U	37	180	1
04688	2-Chlorophenol	95-57-8	37	U	37	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	37	U	37	180	1
04688	1,2-Dichlorobenzene	95-50-1	37	U	37	180	1
04688	1,3-Dichlorobenzene	541-73-1	37	U	37	180	1
04688	1,4-Dichlorobenzene	106-46-7	37	U	37	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	37	U	37	180	1
04688	2,4-Dimethylphenol	105-67-9	74	U	74	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	74	U	74	180	1
04688	2,6-Dinitrotoluene	606-20-2	37	U	37	180	1
04688	1,2-Diphenylhydrazine	122-66-7	37	U	37	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181005
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE056-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	37	U	37	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	37	U	37	180	1
04688	Isophorone	78-59-1	37	U	37	180	1
04688	2-Methylphenol	95-48-7	74	U	74	180	1
04688	4-Methylphenol	106-44-5	74	U	74	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	37	U	37	180	1
04688	3-Nitroaniline	99-09-2	74	U	74	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	37	U	37	180	1
04688	2-Nitrophenol	88-75-5	37	U	37	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	37	U	37	180	1
04688	N-Nitrosodiphenylamine	86-30-6	37	U	37	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	37	U	37	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	37	U	37	180	1
04688	2,4,5-Trichlorophenol	95-95-4	74	U	74	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181005
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE056-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		5.44	21.6	1
07914	Boron	7440-42-8	1.14	J	0.962	5.40	1
01650	Calcium	7440-70-2	2,640		6.63	21.6	1
01654	Iron	7439-89-6	25,000		5.09	21.6	1
01656	Lithium	7439-93-2	30.0		0.24	2.2	1
01657	Magnesium	7439-95-4	4,970		2.75	10.8	1
06958	Manganese	7439-96-5	224		0.0843	0.540	1
10145	Phosphorus	7723-14-0	201		0.605	10.8	1
01662	Potassium	7440-09-7	1,620		19.5	54.0	1
01667	Sodium	7440-23-5	145		40.3	108	1
07968	Strontium	7440-24-6	21.8		0.0670	0.540	1
06969	Tin	7440-31-5	2.32	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,300		0.411	1.08	1
10146	Zirconium	7440-67-7	3.43	J	0.908	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0641	J	0.0630	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.27		0.0840	0.420	2
06126	Barium	7440-39-3	106		0.113	0.420	2
06127	Beryllium	7440-41-7	0.888		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.0640	J	0.0420	0.105	2
06131	Chromium	7440-47-3	25.3		0.126	0.420	2
06132	Cobalt	7440-48-4	5.82		0.0210	0.105	2
06133	Copper	7440-50-8	7.04		0.0693	0.420	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181005
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE056-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	7.92	0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.581	0.0525	0.105	2
06139	Nickel	7440-02-0	13.2	0.105	0.420	2
06141	Selenium	7782-49-2	0.0797 J	0.0420	0.420	2
06142	Silver	7440-22-4	0.0760 J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.284	0.0315	0.105	2
06148	Vanadium	7440-62-2	51.0	0.0231	0.105	2
06149	Zinc	7440-66-6	51.8	0.588	3.15	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 J	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	431	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.54	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-108-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181005
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE056-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 23:29	Laura M Krieger	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 19:55	Jason M Long	21.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 18:57	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:03	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123473	01/11/2011 19:03	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:55	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/23/2011 17:42	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 16:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 19:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 14:00	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 23:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 11:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:45	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 11:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 11:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181005
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL108 SDG#: DE056-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 11:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201A	01/25/2011 23:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201B	01/19/2011 23:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243201A	02/03/2011 16:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201A	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101B	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401B	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181006
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1114 SDG#: DE056-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.2	U	6.2	7.4	0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7	0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.82
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.82
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4	0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7	0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.82
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7	0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7	0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.82
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.82
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7	0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7	0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.82
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4	0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7	0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4	0.82
06192	Methylene Chloride	75-09-2	0.66	J	0.22	3.7	0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7	0.82

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181006
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1114 SDG#: DE056-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7	0.82
06192	Toluene	108-88-3	0.07	U	0.07	3.7	0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7	0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7	0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7	0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7	0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	22.05
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	38	U	38	190	1
04688	Carbazole	86-74-8	38	U	38	190	1
04688	4-Chloro-3-methylphenol	59-50-7	75	U	75	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	38	U	38	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	38	U	38	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	38	U	38	190	1
04688	2-Chloronaphthalene	91-58-7	38	U	38	190	1
04688	2-Chlorophenol	95-57-8	38	U	38	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	38	U	38	190	1
04688	1,2-Dichlorobenzene	95-50-1	38	U	38	190	1
04688	1,3-Dichlorobenzene	541-73-1	38	U	38	190	1
04688	1,4-Dichlorobenzene	106-46-7	38	U	38	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	38	U	38	190	1
04688	2,4-Dimethylphenol	105-67-9	75	U	75	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	75	U	75	190	1
04688	2,6-Dinitrotoluene	606-20-2	38	U	38	190	1
04688	1,2-Diphenylhydrazine	122-66-7	38	U	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181006
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1114 SDG#: DE056-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	38	U	38	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	38	U	38	190	1
04688	Isophorone	78-59-1	38	U	38	190	1
04688	2-Methylphenol	95-48-7	75	U	75	190	1
04688	4-Methylphenol	106-44-5	75	U	75	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	38	U	38	190	1
04688	3-Nitroaniline	99-09-2	75	U	75	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	38	U	38	190	1
04688	2-Nitrophenol	88-75-5	38	U	38	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	38	U	38	190	1
04688	N-Nitrosodiphenylamine	86-30-6	38	U	38	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	38	U	38	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	38	U	38	190	1
04688	2,4,5-Trichlorophenol	95-95-4	75	U	75	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.98	J	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.82	J	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	2.0		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	2.5		0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181006
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1114 SDG#: DE056-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	1.1	J	0.75	1.9	1
10138	Pyrene	129-00-0	1.9		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.40	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.67	22.5	1
07914	Boron	7440-42-8	1.00	U	1.00	5.64	1
01650	Calcium	7440-70-2	4,410		6.91	22.5	1
01654	Iron	7439-89-6	22,400		5.31	22.5	1
01656	Lithium	7439-93-2	27.6		0.25	2.3	1
01657	Magnesium	7439-95-4	5,420		2.86	11.3	1
06958	Manganese	7439-96-5	323		0.0879	0.564	1
10145	Phosphorus	7723-14-0	404		0.631	11.3	1
01662	Potassium	7440-09-7	2,630		20.3	56.4	1
01667	Sodium	7440-23-5	129		42.1	113	1
07968	Strontium	7440-24-6	27.8		0.0699	0.564	1
06969	Tin	7440-31-5	2.52	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,250		0.428	1.13	1
10146	Zirconium	7440-67-7	2.86	J	0.947	5.64	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.217	J	0.0663	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.40		0.0884	0.442	2
06126	Barium	7440-39-3	175		0.119	0.442	2
06127	Beryllium	7440-41-7	0.834		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.171		0.0442	0.111	2
06131	Chromium	7440-47-3	32.3		0.133	0.442	2
06132	Cobalt	7440-48-4	9.35		0.0221	0.111	2
06133	Copper	7440-50-8	17.1		0.0729	0.442	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181006
LLI Group # 1228523
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Suite 210
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S1114 SDG#: DE056-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	9.15		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.951		0.0553	0.111	2
06139	Nickel	7440-02-0	20.2		0.111	0.442	2
06141	Selenium	7782-49-2	0.109	J	0.0442	0.442	2
06142	Silver	7440-22-4	0.0606	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.424		0.0332	0.111	2
06148	Vanadium	7440-62-2	57.9		0.0243	0.111	2
06149	Zinc	7440-66-6	103		0.619	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.170		0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	427		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.17		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-111-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181006
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1114 SDG#: DE056-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110113AA	01/11/2011 23:51	Laura M Krieger	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110132AA	01/13/2011 20:15	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:01	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101123473	01/11/2011 19:03	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101123474	01/11/2011 19:12	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101123473	01/11/2011 18:59	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/23/2011 18:16	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 16:36	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 19:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 14:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 23:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 11:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:47	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 11:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 11:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181006
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1114 SDG#: DE056-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 11:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201B	01/26/2011 00:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201B	01/20/2011 01:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243201A	02/03/2011 16:15	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201B	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101B	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401B	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181007
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1119 SDG#: DE056-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	38	U	38	190	1
04688	Carbazole	86-74-8	38	U	38	190	1
04688	4-Chloro-3-methylphenol	59-50-7	76	U	76	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	38	U	38	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	38	U	38	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	38	U	38	190	1
04688	2-Chloronaphthalene	91-58-7	38	U	38	190	1
04688	2-Chlorophenol	95-57-8	38	U	38	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	38	U	38	190	1
04688	1,2-Dichlorobenzene	95-50-1	38	U	38	190	1
04688	1,3-Dichlorobenzene	541-73-1	38	U	38	190	1
04688	1,4-Dichlorobenzene	106-46-7	38	U	38	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	38	U	38	190	1
04688	2,4-Dimethylphenol	105-67-9	76	U	76	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	76	U	76	190	1
04688	2,6-Dinitrotoluene	606-20-2	38	U	38	190	1
04688	1,2-Diphenylhydrazine	122-66-7	38	U	38	190	1
04688	Hexachlorobenzene	118-74-1	38	U	38	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	38	U	38	190	1
04688	Isophorone	78-59-1	38	U	38	190	1
04688	2-Methylphenol	95-48-7	76	U	76	190	1
04688	4-Methylphenol	106-44-5	76	U	76	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	38	U	38	190	1
04688	3-Nitroaniline	99-09-2	76	U	76	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	38	U	38	190	1
04688	2-Nitrophenol	88-75-5	38	U	38	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	38	U	38	190	1
04688	N-Nitrosodiphenylamine	86-30-6	38	U	38	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	38	U	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181007
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1119 SDG#: DE056-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	38	U	38	190	1
04688	2,4,5-Trichlorophenol	95-95-4	76	U	76	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	J	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	1.0	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.55	22.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181007
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1119 SDG#: DE056-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.982	U	0.982	5.52	1
01650	Calcium	7440-70-2	3,140		6.76	22.1	1
01654	Iron	7439-89-6	21,400		5.20	22.1	1
01656	Lithium	7439-93-2	23.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,910		2.80	11.0	1
06958	Manganese	7439-96-5	233		0.0861	0.552	1
10145	Phosphorus	7723-14-0	294		0.618	11.0	1
01662	Potassium	7440-09-7	2,000		19.9	55.2	1
01667	Sodium	7440-23-5	156		41.2	110	1
07968	Strontium	7440-24-6	22.3		0.0684	0.552	1
06969	Tin	7440-31-5	2.29	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,130		0.419	1.10	1
10146	Zirconium	7440-67-7	2.89	J	0.927	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.181	J	0.0675	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.34		0.0900	0.450	2
06126	Barium	7440-39-3	126		0.122	0.450	2
06127	Beryllium	7440-41-7	0.813		0.0180	0.113	2
06128	Cadmium	7440-43-9	0.106	J	0.0450	0.113	2
06131	Chromium	7440-47-3	31.6		0.135	0.450	2
06132	Cobalt	7440-48-4	7.61		0.0225	0.113	2
06133	Copper	7440-50-8	12.2		0.0743	0.450	2
06135	Lead	7439-92-1	7.14		0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.670		0.0563	0.113	2
06139	Nickel	7440-02-0	18.3		0.113	0.450	2
06141	Selenium	7782-49-2	0.0804	J	0.0450	0.450	2
06142	Silver	7440-22-4	0.0327	J	0.0135	0.113	2
06145	Thallium	7440-28-0	0.232		0.0338	0.113	2
06148	Vanadium	7440-62-2	52.6		0.0248	0.113	2
06149	Zinc	7440-66-6	77.9		0.630	3.38	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181007
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1119 SDG#: DE056-12

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	427	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.14	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11012SLB026	01/23/2011 18:50	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLC026	01/19/2011 17:10	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLC026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11012SLB026	01/12/2011 18:40	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110130010A	01/14/2011 19:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110130010A	01/13/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110125708002	01/18/2011 14:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181007
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1119 SDG#: DE056-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110125708002	01/17/2011 23:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110121026001D	01/17/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110121026001A	01/19/2011 21:49	David K Beck	2
06131	Chromium	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110121026001C	01/17/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110121026001B	01/17/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110121026001A	01/19/2011 21:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110121026001A	01/17/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110125711002	01/14/2011 10:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110125708002	01/13/2011 20:00	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110121026001	01/13/2011 20:00	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110125711002	01/14/2011 00:15	Mirit S Shenouda	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11024024201B	01/26/2011 01:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201B	01/20/2011 01:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243201A	02/03/2011 12:55	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11024024201B	01/24/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11012182101B	01/12/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11012039401B	01/12/2011 09:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243201A	02/01/2011 10:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-011011 Water
SSFL Area IV Collocated Soil Sampling
TB-011011

LLI Sample # WW 6181008
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 08:00

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB110 SDG#: DE056-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-011011 Water
SSFL Area IV Collocated Soil Sampling
TB-011011

LLI Sample # WW 6181008
LLI Group # 1228523
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 08:00

Submitted: 01/11/2011 09:45
Reported: 02/04/2011 15:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB110 SDG#: DE056-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110141AA	01/14/2011 14:39	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110131AA	01/13/2011 13:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110131AA	01/13/2011 13:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110141AA	01/14/2011 14:39	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110113AA	Sample number(s): 6180996-6181002,6181004-6181006									
Acetone	6.7	U	6.7	8.0	ug/kg	139	138	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	101	99	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93	93	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	102	99	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93	92	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	97	97	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	68	67	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	110	111	46-153	0	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	95	93	72-120	3	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	94	92	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	90	89	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	98	69-122	5	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	96	80-120	3	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	83	80	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	91	94	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	100	97	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	73	77	54-132	5	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94	93	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94	93	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	137*	145*	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	86	89	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98	95	77-120	3	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97	98	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	97	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97	94	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	93	93	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95	94	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	62	59	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99	97	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97	96	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	97	73-123	4	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	100	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103	100	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96	95	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	94	95	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	98	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	95	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	86	86	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86	87	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96	94	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	102	98	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	87	87	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	93	90	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	76	78	45-155	3	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	96	93	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	95	93	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	95	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	71	71	61-134	0	30
Methylene Chloride	0.63	J	0.24	4.0	ug/kg	92	90	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	97	95	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	96	95	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100	99	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92	93	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106	103	77-120	3	30
Toluene	0.18	J	0.08	4.0	ug/kg	100	98	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	89	90	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	84	85	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	99	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	97	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	96	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	82	79	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92	96	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	94	94	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	94	93	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	74	73	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100	98	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	91	91	80-120	0	30
Batch number: E110131AA	Sample number(s): 6181008									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	104	60-132	0	30
Batch number: E110132AA	Sample number(s): 6180996-6181002,6181004-6181006									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	98	98	70-130	0	30
Batch number: Y110141AA	Sample number(s): 6181008									
Acetone	6	U	6.	20	ug/l	157	140	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	97	99	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	100	101	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	105	101	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	104	103	80-120	1	30
Bromoform	1	U	1.	5	ug/l	98	96	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	103	102	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	124	115	66-151	7	30
n-Butylbenzene	1	U	1.	5	ug/l	96	95	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	99	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	106	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	104	103	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	109	108	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	108	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	110	110	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	97	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	78	76	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	102	96	66-120	6	30
Dibromochloromethane	1	U	1.	5	ug/l	99	99	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	102	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	110	109	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	103	79-120	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	116	113	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	95	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	103	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	108	108	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	102	102	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	96	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	99	101	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	106	106	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	97	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	113	109	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	101	100	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	106	106	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	97	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	101	97	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	99	80-120	0	30
Styrene	1	U	1.	5	ug/l	96	96	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	100	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	93	95	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	100	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	102	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	101	99	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	100	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	101	101	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	109	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	99	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	98	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	94	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	96	80-120	2	30
Batch number: 11012SLB026	Sample number(s): 6180996-6181007									
Aniline	170 U		170.	500	ug/kg	52		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	44		15-121		
Benzoic acid	170 U		170.	500	ug/kg	84		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	83		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	44		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	86		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	92		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	42		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	91		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	81		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	80		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	91		68-105		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	87		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	85		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	67		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	97		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	91		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	76		35-106		
Phenol	17	U	17.	170	ug/kg	91		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 11015SLC026	Sample number(s): 6180996-6181007									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	118		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	124		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	118		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	131		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	116		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	119		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	105		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	103		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	125		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		56-121		
Batch number: 110200023A	Sample number(s): 6181001									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110130010A	Sample number(s): 6180996-6181007									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	61*	68*	75-125	12	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	87		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	101		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110121026001A	Sample number(s): 6180996-6181007									
Antimony	0.0583	U	0.0583	0.194	mg/kg	125		11-208		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	97		80-120		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	103		82-118		
Cadmium	0.0388	U	0.0388	0.0971	mg/kg	108		82-118		
Chromium	0.117	U	0.117	0.388	mg/kg	108		80-120		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	108		82-118		
Copper	0.109	J	0.0641	0.388	mg/kg	106		80-120		
Lead	0.0101	U	0.0101	0.194	mg/kg	99		80-120		
Nickel	0.0971	U	0.0971	0.388	mg/kg	108		80-120		
Silver	0.0117	U	0.0117	0.0971	mg/kg	102		66-134		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	105		81-119		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	100		90-110		
Zinc	0.544	U	0.544	2.91	mg/kg	103		78-122		
Batch number: 110121026001B	Sample number(s): 6180996-6181007									
Selenium	0.0388	U	0.0388	0.388	mg/kg	109		79-122		
Batch number: 110121026001C	Sample number(s): 6180996-6181007									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	114		78-122		
Batch number: 110121026001D	Sample number(s): 6180996-6181007									
Barium	0.105	U	0.105	0.388	mg/kg	102		79-121		
Batch number: 110125708002	Sample number(s): 6180996-6181007									
Aluminum	5.03	U	5.03	20.0	mg/kg	95		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	101		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	98		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	99		81-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.65	J	0.560	10.0	mg/kg	100		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.22	J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	99		80-120		
Batch number: 110125711002	Sample number(s): 6180996-6181007									
Mercury	0.0029	U	0.0029	0.0997	mg/kg	99		88-123		
Batch number: 11019621201A	Sample number(s): 6180996-6181004									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11019621201B	Sample number(s): 6181005-6181007									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11024024201A	Sample number(s): 6180996-6181005									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
Batch number: 11024024201B	Sample number(s): 6181006-6181007									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
Batch number: 11032243201A	Sample number(s): 6180996-6181007									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	87		80-120		
Batch number: 11012039401A	Sample number(s): 6180996-6181004									
22a pH by 9045C						100		95-105		
Batch number: 11012039401B	Sample number(s): 6181005-6181007									
22a pH by 9045C						100		95-105		
Batch number: 11012182101A	Sample number(s): 6180996-6181004									
Oxidation Reduction Potential						99		98-102		
Batch number: 11012182101B	Sample number(s): 6181005-6181007									
Oxidation Reduction Potential						99		98-102		
Batch number: 11018162402A	Sample number(s): 6180996-6181007									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110113AA	Sample number(s): 6180996-6181002,6181004-6181006 UNSPK: P180107								
Acetone	170		15-210						
Benzene	93		55-143						
Bromobenzene	82		43-139						
Bromochloromethane	100		60-137						
Bromodichloromethane	89		53-136						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromoform	91		38-124						
Bromomethane	67		42-168						
2-Butanone	118		37-163						
n-Butylbenzene	75		30-146						
sec-Butylbenzene	76		33-157						
tert-Butylbenzene	75		41-152						
Carbon Tetrachloride	96		45-153						
Chlorobenzene	89		49-135						
Chloroethane	71		39-152						
2-Chloroethyl Vinyl Ether	85		32-139						
Chloroform	95		61-142						
Chloromethane	83		51-163						
2-Chlorotoluene	81		42-146						
4-Chlorotoluene	80		39-145						
1,2-Dibromo-3-chloropropane	74		30-139						
Dibromochloromethane	93		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	94		57-130						
1,2-Dichlorobenzene	82		36-133						
1,3-Dichlorobenzene	78		34-134						
1,4-Dichlorobenzene	81		35-136						
Dichlorodifluoromethane	71		26-151						
1,1-Dichloroethane	92		63-142						
1,2-Dichloroethane	92		68-131						
1,1-Dichloroethene	90		61-149						
cis-1,2-Dichloroethene	94		60-136						
trans-1,2-Dichloroethene	94		59-142						
1,2-Dichloropropane	91		62-135						
1,3-Dichloropropane	89		58-129						
2,2-Dichloropropane	91		53-147						
1,1-Dichloropropene	88		54-145						
cis-1,3-Dichloropropene	80		51-131						
trans-1,3-Dichloropropene	79		49-129						
Ethylbenzene	85		44-141						
Freon 113	94		56-156						
Hexachlorobutadiene	70		10-155						
2-Hexanone	78		32-160						
Isopropylbenzene	81		38-144						
p-Isopropyltoluene	76		29-152						
Methyl Tertiary Butyl Ether	86		55-129						
4-Methyl-2-pentanone	63		46-139						
Methylene Chloride	86		61-141						
n-Propylbenzene	82		39-157						
Styrene	87		35-134						
1,1,1,2-Tetrachloroethane	93		52-130						
1,1,2,2-Tetrachloroethane	83		40-152						
Tetrachloroethene	98		42-149						
Toluene	91		50-146						
1,2,3-Trichlorobenzene	67		10-140						
1,2,4-Trichlorobenzene	62		10-136						
1,1,1-Trichloroethane	93		64-142						
1,1,2-Trichloroethane	94		54-139						
Trichloroethene	91		53-144						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichlorofluoromethane	84		47-163						
1,2,3-Trichloropropane	86		45-154						
1,2,4-Trimethylbenzene	78		37-149						
1,3,5-Trimethylbenzene	79		38-150						
Vinyl Chloride	79		50-154						
m+p-Xylene	89		44-137						
o-Xylene	80		42-137						
Batch number: 11012SLB026	Sample number(s): 6180996-6181007 UNSPK: 6180996								
Aniline	49	55	14-114	12	30				
Benzidine	19*	19*	35-141	0	30				
Benzoic acid	68	80	10-173	16	30				
Benzyl alcohol	81	84	55-123	4	30				
4-Bromophenyl-phenylether	84	92	67-129	9	30				
Carbazole	84	90	64-120	8	30				
4-Chloro-3-methylphenol	85	91	53-130	7	30				
4-Chloroaniline	48	49	23-95	3	30				
bis(2-Chloroethoxy)methane	84	90	54-117	7	30				
bis(2-Chloroethyl)ether	79	85	60-116	7	30				
bis(2-Chloroisopropyl)ether	77	85	55-142	9	30				
2-Chloronaphthalene	73	81	50-141	10	30				
2-Chlorophenol	84	88	73-121	4	30				
4-Chlorophenyl-phenylether	87	93	64-119	6	30				
Dibenzofuran	85	92	71-112	8	30				
1,2-Dichlorobenzene	78	86	66-108	11	30				
1,3-Dichlorobenzene	75	84	63-109	12	30				
1,4-Dichlorobenzene	76	86	53-113	12	30				
3,3'-Dichlorobenzidine	56	59	25-123	5	30				
2,4-Dichlorophenol	86	89	78-117	3	30				
2,4-Dimethylphenol	83	86	56-130	3	30				
3,5-Dimethylphenol	97	97	70-130	1	30				
4,6-Dinitro-2-methylphenol	68	80	10-148	16	30				
2,4-Dinitrophenol	57	72	20-143	23	30				
2,4-Dinitrotoluene	85	99	57-114	15	30				
2,6-Dinitrotoluene	87	97	69-123	10	30				
1,2-Diphenylhydrazine	92	98	71-129	7	30				
Hexachlorobenzene	86	94	61-111	9	30				
Hexachlorobutadiene	88	93	62-120	6	30				
Hexachlorocyclopentadiene	80	89	10-153	11	30				
Hexachloroethane	77	88	57-109	13	30				
Isophorone	82	86	51-118	5	30				
2-Methylphenol	80	87	47-142	8	30				
4-Methylphenol	79	83	55-126	5	30				
2-Nitroaniline	87	96	67-125	9	30				
3-Nitroaniline	84	91	59-122	7	30				
4-Nitroaniline	63	73	52-112	14	30				
Nitrobenzene	87	94	51-114	8	30				
2-Nitrophenol	83	90	74-115	7	30				
4-Nitrophenol	85	96	39-133	12	30				
N-Nitroso-di-n-propylamine	79	85	60-116	8	30				
N-Nitrosodiphenylamine	84*	91	86-145	8	30				
Pentachlorophenol	68	73	17-149	7	30				
Phenol	82	88	58-126	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	82	90	72-115	10	30				
2,4,5-Trichlorophenol	88	97	34-139	10	30				
2,4,6-Trichlorophenol	89	98	49-140	11	30				
Batch number: 11015SLC026	Sample number(s): 6180996-6181007 UNSPK: 6180996								
Acenaphthene	86	85	63-105	1	30				
Acenaphthylene	84	79	55-126	6	30				
Anthracene	85	80	46-136	6	30				
Benzo(a)anthracene	92	89	39-144	3	30				
Benzo(a)pyrene	106	102	34-156	4	30				
Benzo(b)fluoranthene	113	129	43-155	13	30				
Benzo(g,h,i)perylene	113	119	33-141	6	30				
Benzo(k)fluoranthene	113	125	42-144	10	30				
Butylbenzylphthalate	109	99	73-140	11	30				
Di-n-butylphthalate	114	103	78-160	10	30				
Chrysene	91	89	29-156	2	30				
Dibenz(a,h)anthracene	111	119	41-130	7	30				
Diethylphthalate	104	92	87-131	12	30				
Dimethylphthalate	96	96	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	115	104	39-167	10	30				
Fluoranthene	92	90	26-166	3	30				
Fluorene	89	87	45-121	3	30				
Indeno(1,2,3-cd)pyrene	110	118	21-143	7	30				
1-Methylnaphthalene	91	87	72-123	5	30				
2-Methylnaphthalene	88	85	28-121	3	30				
Naphthalene	91	89	61-102	2	30				
N-Nitrosodimethylamine	93	92	48-113	2	30				
Di-n-octylphthalate	106	119	40-192	11	30				
Phenanthrene	90	86	12-165	4	30				
Pyrene	92	83	15-153	10	30				
Batch number: 110200023A	Sample number(s): 6181001 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110130010A	Sample number(s): 6180996-6181007 UNSPK: 6180996								
PCB-1016	74	64	29-146	14	50				
PCB-1260	85	82	39-149	4	50				
Batch number: 110121026001A	Sample number(s): 6180996-6181007 UNSPK: 6181002 BKG: 6181002								
Antimony	56*	39*	75-125	25*	20	0.244	0.415	52* (1)	20
Arsenic	226*	126*	75-125	27*	20	4.00	7.17	57*	20
Beryllium	124	97	75-125	14	20	0.570	0.627	9	20
Cadmium	137*	103	75-125	25*	20	0.161	0.148	8 (1)	20
Chromium	167*	109	75-125	18	20	18.8	24.5	26*	20
Cobalt	112	102	75-125	9	20	7.40	5.94	22*	20
Copper	129*	109	75-125	9	20	9.24	10.8	15	20
Lead	155*	107	75-125	15	20	5.70	11.9	70*	20
Nickel	114	86	75-125	12	20	13.2	12.6	5	20
Silver	127*	119	75-125	7	20	0.0369 J	0.0328 J	12 (1)	20
Thallium	133*	113	75-125	10	20	0.255	0.248	3 (1)	20
Vanadium	198*	129*	75-125	13	20	36.0	43.3	18	20
Zinc	304 (2)	154 (2)	75-125	18	20	59.3	249	123*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110121026001B	Sample number(s): 6180996-6181007 UNSPK: 6181002 BKG: 6181002								
Selenium	111	100	75-125	11	20	0.100 J	0.265 J	90* (1)	20
Batch number: 110121026001C	Sample number(s): 6180996-6181007 UNSPK: 6181002 BKG: 6181002								
Molybdenum	133*	120	75-125	9	20	0.782	0.824	5	20
Batch number: 110121026001D	Sample number(s): 6180996-6181007 UNSPK: 6181002 BKG: 6181002								
Barium	183 (2)	-70 (2)	75-125	21*	20	117	114	2	20
Batch number: 110125708002	Sample number(s): 6180996-6181007 UNSPK: 6180999 BKG: 6180999								
Aluminum	2002 (2)	2214 (2)	75-125	2	20	18,300	18,700	2	20
Boron	100	99	84-115	1	20	2.21 J	1.78 J	21* (1)	20
Calcium	154 (2)	163 (2)	75-125	2	20	2,290	2,280	0	20
Iron	1207 (2)	1510 (2)	75-125	2	20	20,100	20,100	0	20
Lithium	100	102	82-114	3	20	25.5	25.3	1	20
Magnesium	230 (2)	260 (2)	75-125	1	20	4,240	4,280	1	20
Manganese	3 (2)	-60 (2)	75-125	10	20	314	248	23*	20
Phosphorus	109	110	75-125	1	20	145	150	3	20
Potassium	134*	132*	75-125	0	20	1,700	1,740	2	20
Sodium	99	100	75-125	2	20	153	153	0 (1)	20
Strontium	99	99	75-115	2	20	19.6	19.8	1	20
Tin	88	88	80-110	2	20	2.30 J	2.25 J	2 (1)	20
Titanium	315 (2)	306 (2)	75-125	0	20	1,190	1,220	2	20
Zirconium	97	98	75-125	3	20	2.92 J	3.62 J	21* (1)	20
Batch number: 110125711002	Sample number(s): 6180996-6181007 UNSPK: 6180999 BKG: 6180999								
Mercury	97	95	65-135	4	20	0.0181 J	0.0027 U	200* (1)	20
Batch number: 11019621201A	Sample number(s): 6180996-6181004 UNSPK: P180108 BKG: P180108								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11019621201B	Sample number(s): 6181005-6181007 UNSPK: 6181005 BKG: 6181005								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11024024201A	Sample number(s): 6180996-6181005 UNSPK: 6180996 BKG: 6180996								
11a Anions by 300.0 - Fluoride	58*		80-120			1.2	1.4	21* (1)	20
Batch number: 11024024201B	Sample number(s): 6181006-6181007 UNSPK: 6181006 BKG: 6181006								
11a Anions by 300.0 - Fluoride	88		80-120			2.1	2.3	10 (1)	20
Batch number: 11032243201A	Sample number(s): 6180996-6181007 UNSPK: 6181007 BKG: 6181007								
3a Cr VI by EPA 7199	93		75-125			0.24 J	0.40 J	49* (1)	20
Batch number: 11012039401A	Sample number(s): 6180996-6181004 BKG: 6180996								
22a pH by 9045C						6.24	6.24	0	1
Batch number: 11012039401B	Sample number(s): 6181005-6181007 BKG: 6181007								
22a pH by 9045C						8.14	8.14	0	1
Batch number: 11012182101A	Sample number(s): 6180996-6181004 BKG: 6180996								
Oxidation Reduction Potential						433	433	0	6

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11012182101B	Sample number(s): 6181005-6181007					BKG: 6181007			
Oxidation Reduction Potential						427	427	0	6
Batch number: 11018162402A	Sample number(s): 6180996-6181007					BKG: 6181002			
28a Moisture Content by 160.3						12.7	11.5	10	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110113AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6180996	108	105	96	87
6180997	104	104	97	85
6180998	108	102	96	85
6180999	110	106	95	87
6181000	110	105	95	86
6181001	110	107	96	86
6181002	109	103	97	83
6181004	111	108	95	87
6181005	110	105	95	86
6181006	111	108	95	86
Blank	108	106	93	89
LCS	101	104	101	100
LCSD	101	105	101	100
MS	103	107	101	102
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110131AA

	Toluene-d8
6181008	103
Blank	101
LCS	101
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110132AA

	Toluene-d8
6180996	100
6180997	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Surrogate Quality Control

6180998	99
6180999	99
6181000	99
6181001	99
6181002	100
6181004	99
6181005	100
6181006	99
Blank	100
LCS	101
LCSD	100
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110141AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6181008	105	103	99	99
Blank	104	98	99	100
LCS	106	102	100	102
LCSD	106	105	100	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11012SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6180996	88	87	99	80	90	88
6180997	83	43*	42*	90	95	112
6180998	82	79	85	79	88	100
6180999	81	80	91	76	84	87
6181000	81	79	94	75	84	92
6181001	87	85	98	80	90	96
6181002	89	88	102	80	92	101
6181003	87	88	96	83	91	95
6181004	84	82	88	78	88	94
6181005	81	83	87	76	87	87
6181006	73	74	87	73	86	85
6181007	83	83	91	78	93	89
Blank	86	88	106	85	94	90
LCS	90	89	110	84	90	91
MS	81	78	96	76	81	86
MSD	88	89	111	85	90	105
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11015SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6180996	92	88	82
6180997	97	90	81
6180998	93	86	79
6180999	97	95	85
6181000	89	83	79

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228523
Reported: 02/04/11 at 03:29 PM

Surrogate Quality Control

6181001	97	87	81
6181002	100	91	92
6181003	97	93	83
6181004	90	60	75
6181005	99	91	83
6181006	99	90	94
6181007	96	93	80
Blank	91	86	84
LCS	97	88	88
MS	99	91	88
MSD	88	79	81
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110130010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6180996	82	80
6180997	88	92
6180998	96	91
6180999	98	89
6181000	78	85
6181001	80	92
6181002	85	75
6181003	93	84
6181004	73	94
6181005	78	90
6181006	77	74
6181007	83	99
Blank	95	96
LCS	90	97
LCSD	95	100
MS	67	82
MSD	78	80
Limits:	53-139	45-120

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13013 1228523 6180996-08

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: *VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-107-SA5B-SB-4.0-5.0	01.10.1	0939	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-107-SA5B-SB-4.5	01.10.1	0935	SOIL	NONE	4 ENCORES											X	X												
SL-053-SA5B-SB-1.8-2.8	01.10.1	0957	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-053-SA5B-SB-2.5	01.10.1	0954	SOIL	NONE	4 ENCORES											X	X												
SL-054-SA5B-SB-3.0-4.0	01.10.1	1054	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-054-SA5B-SB-3.5	01.10.1	1050	SOIL	NONE	4 ENCORES											X	X												
SL-110-SA5B-SB-4.0-5.0	01.10.1	1028	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-110-SA5B-SB-4.5	01.10.1	1025	SOIL	NONE	4 ENCORES											X	X												
SL-105-SA5B-SB-4.0-5.0	01.10.1	1139	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-105-SA5B-SB-4.5	01.10.1	1135	SOIL	NONE	4 ENCORES											X	X												
SL-109-SA5B-SB-4.0-5.0	01.10.1	1352	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X																
SL-109-SA5B-SB-4.5	01.10.1	1347	SOIL	NONE	4 ENCORES											X	X												
SL-240-SA5B-SB-4.0-5.0	01.10.1	1511	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-240-SA5B-SB-4.5	01.10.1	1507	SOIL	NONE	4 ENCORES											X	X												
SL-240-SA5B-SB-9.0-10.0	01.10.1	1514	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-106-SA5B-SB-4.0-5.0	01.10.1	1356	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-106-SA5B-SB-4.5	01.10.1	1352	SOIL	NONE	4 ENCORES											X	X												
SL-108-SA5B-SB-4.0-5.0	01.10.1	1453	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-108-SA5B-SB-4.5	01.10.1	1450	SOIL	NONE	4 ENCORES											X	X												
SL-111-SA5B-SB-4.0-5.0	01.10.1	1604	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-111-SA5B-SB-4.5	01.10.1	1600	SOIL	NONE	4 ENCORES											X	X												
SL-111-SA5B-SB-9.0-10.0	01.10.1	1608	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
TB-011D11	01.10.1	0800	WATER	HCl	3-40 mL VOA VIALS											X	X												

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/10/2011, 16:30		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	1/11/11	5895 1432 2854, ...2865	No. of coolers = 2

094 S

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/11/2011
Group Number: 1228531
SDG: DX037
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-107-SA5B-SB-4.0-5.0 Soil	6181065
SL-053-SA5B-SB-1.8-2.8 Soil	6181066
SL-054-SA5B-SB-3.0-4.0 Soil	6181067
SL-110-SA5B-SB-4.0-5.0 Soil	6181068
SL-105-SA5B-SB-4.0-5.0 Soil	6181069
SL-109-SA5B-SB-4.0-5.0 Soil	6181070
SL-240-SA5B-SB-4.0-5.0 Soil	6181071
SL-240-SA5B-SB-9.0-10.0 Soil	6181072
SL-106-SA5B-SB-4.0-5.0 Soil	6181073
SL-108-SA5B-SB-4.0-5.0 Soil	6181074
SL-111-SA5B-SB-4.0-5.0 Soil	6181075
SL-111-SA5B-SB-9.0-10.0 Soil	6181076

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6181065
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD107 SDG#: DX037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6181065
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD107 SDG#: DX037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0160 JBQ	0.0152	1.15	1
11031	12378-PeCDD	40321-76-4	0.0140 JQ	0.0125	5.75	1
11031	123478-HxCDD	39227-28-6	0.0259 JBQ	0.0106	5.75	1
11031	123678-HxCDD	57653-85-7	0.0215 JB	0.0112	5.75	1
11031	123789-HxCDD	19408-74-3	0.0416 JB	0.0108	5.75	1
11031	1234678-HpCDD	35822-46-9	0.265 JB	0.0182	5.75	1
11031	OCDD	3268-87-9	0.782 JB	0.0153	11.5	1
11031	2378-TCDF	51207-31-9	0.0115 J	0.0102	1.15	1
11031	12378-PeCDF	57117-41-6	0.0191 JBQ	0.00506	5.75	1
11031	23478-PeCDF	57117-31-4	0.0508 JB	0.00483	5.75	1
11031	123478-HxCDF	70648-26-9	0.0469 JBQ	0.00840	5.75	1
11031	123678-HxCDF	57117-44-9	0.0370 JB	0.00748	5.75	1
11031	123789-HxCDF	72918-21-9	0.0450 JB	0.00898	5.75	1
11031	234678-HxCDF	60851-34-5	0.0550 JB	0.00817	5.75	1
11031	1234678-HpCDF	67562-39-4	0.154 JB	0.00783	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0553 JB	0.0109	5.75	1
11031	OCDF	39001-02-0	0.203 JBQ	0.0155	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6181065
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD107 SDG#: DX037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5B-SB-4.0-5.0

LLI Sample # SW 6181065
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:39

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD107 SDG#: DX037-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	01/31/2011 17:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5B-SB-1.8-2.8 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6181066
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD053 SDG#: DX037-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA5B-SB-1.8-2.8 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6181066
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD053 SDG#: DX037-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0251	JBQ	0.0198	1.12	1
11031	12378-PeCDD	40321-76-4	0.114	JQ	0.0313	5.62	1
11031	123478-HxCDD	39227-28-6	0.241	JB	0.0246	5.62	1
11031	123678-HxCDD	57653-85-7	1.23	JB	0.0255	5.62	1
11031	123789-HxCDD	19408-74-3	0.467	JB	0.0242	5.62	1
11031	1234678-HpCDD	35822-46-9	40.7	B	0.0398	5.62	1
11031	OCDD	3268-87-9	368	B	0.0469	11.2	1
11031	2378-TCDF	51207-31-9	0.0139	U	0.0139	1.12	1
11031	12378-PeCDF	57117-41-6	0.0859	JB	0.00843	5.62	1
11031	23478-PeCDF	57117-31-4	0.116	JBQ	0.00775	5.62	1
11031	123478-HxCDF	70648-26-9	0.130	JBQ	0.0135	5.62	1
11031	123678-HxCDF	57117-44-9	0.137	JBQ	0.0130	5.62	1
11031	123789-HxCDF	72918-21-9	0.0786	JB	0.0138	5.62	1
11031	234678-HxCDF	60851-34-5	0.234	JB	0.0130	5.62	1
11031	1234678-HpCDF	67562-39-4	2.86	JB	0.0155	5.62	1
11031	1234789-HpCDF	55673-89-7	0.320	JB	0.0185	5.62	1
11031	OCDF	39001-02-0	7.20	JB	0.0213	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA5B-SB-1.8-2.8 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6181066
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD053 SDG#: DX037-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-053-SA5B-SB-1.8-2.8 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5B-SB-1.8-2.8

LLI Sample # SW 6181066
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 09:57

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD053 SDG#: DX037-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	01/31/2011 18:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6181067
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX037-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6181067
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX037-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0204	U	0.0204	1.15	1
11031	12378-PeCDD	40321-76-4	0.0717	J	0.0342	5.76	1
11031	123478-HxCDD	39227-28-6	0.203	JB	0.0308	5.76	1
11031	123678-HxCDD	57653-85-7	0.902	JB	0.0326	5.76	1
11031	123789-HxCDD	19408-74-3	0.378	JB	0.0304	5.76	1
11031	1234678-HpCDD	35822-46-9	28.5	B	0.0406	5.76	1
11031	OCDD	3268-87-9	270	B	0.0400	11.5	1
11031	2378-TCDF	51207-31-9	0.0161	U	0.0161	1.15	1
11031	12378-PeCDF	57117-41-6	0.0807	JBQ	0.00795	5.76	1
11031	23478-PeCDF	57117-31-4	0.0738	JB	0.00703	5.76	1
11031	123478-HxCDF	70648-26-9	0.115	JB	0.0144	5.76	1
11031	123678-HxCDF	57117-44-9	0.0973	JBQ	0.0136	5.76	1
11031	123789-HxCDF	72918-21-9	0.0823	JB	0.0152	5.76	1
11031	234678-HxCDF	60851-34-5	0.170	JB	0.0138	5.76	1
11031	1234678-HpCDF	67562-39-4	1.99	JB	0.0344	5.76	1
11031	1234789-HpCDF	55673-89-7	0.239	JBQ	0.0431	5.76	1
11031	OCDF	39001-02-0	4.75	JB	0.0408	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-054-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6181067
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX037-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5B-SB-3.0-4.0

LLI Sample # SW 6181067
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:54

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX037-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	01/31/2011 19:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-110-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6181068
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD110 SDG#: DX037-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6181068
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD110 SDG#: DX037-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0145 U	0.0145	1.06	1
11031	12378-PeCDD	40321-76-4	0.0224 JQ	0.0148	5.32	1
11031	123478-HxCDD	39227-28-6	0.0143 JBQ	0.0103	5.32	1
11031	123678-HxCDD	57653-85-7	0.0162 JBQ	0.0109	5.32	1
11031	123789-HxCDD	19408-74-3	0.0233 JBQ	0.0100	5.32	1
11031	1234678-HpCDD	35822-46-9	0.193 JBQ	0.0193	5.32	1
11031	OCDD	3268-87-9	0.870 JB	0.0196	10.6	1
11031	2378-TCDF	51207-31-9	0.0101 J	0.00926	1.06	1
11031	12378-PeCDF	57117-41-6	0.0229 JBQ	0.00511	5.32	1
11031	23478-PeCDF	57117-31-4	0.0607 JB	0.00489	5.32	1
11031	123478-HxCDF	70648-26-9	0.0387 JB	0.00872	5.32	1
11031	123678-HxCDF	57117-44-9	0.0332 JBQ	0.00819	5.32	1
11031	123789-HxCDF	72918-21-9	0.0237 JB	0.00904	5.32	1
11031	234678-HxCDF	60851-34-5	0.0610 JBQ	0.00851	5.32	1
11031	1234678-HpCDF	67562-39-4	0.218 JBQ	0.0214	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0572 JBQ	0.0282	5.32	1
11031	OCDF	39001-02-0	0.164 JB	0.0250	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-110-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6181068
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD110 SDG#: DX037-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-110-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5B-SB-4.0-5.0

LLI Sample # SW 6181068
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 10:28

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD110 SDG#: DX037-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	01/31/2011 20:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181069
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD105 SDG#: DX037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181069
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD105 SDG#: DX037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0145 U	0.0145	1.12	1
11031	12378-PeCDD	40321-76-4	0.0160 J	0.0137	5.62	1
11031	123478-HxCDD	39227-28-6	0.0111 U	0.0111	5.62	1
11031	123678-HxCDD	57653-85-7	0.0290 JBQ	0.0115	5.62	1
11031	123789-HxCDD	19408-74-3	0.0385 JB	0.0112	5.62	1
11031	1234678-HpCDD	35822-46-9	0.211 JBQ	0.0171	5.62	1
11031	OCDD	3268-87-9	0.934 JB	0.0157	11.2	1
11031	2378-TCDF	51207-31-9	0.00877 U	0.00877	1.12	1
11031	12378-PeCDF	57117-41-6	0.0131 JBQ	0.00506	5.62	1
11031	23478-PeCDF	57117-31-4	0.0524 JBQ	0.00461	5.62	1
11031	123478-HxCDF	70648-26-9	0.0389 JBQ	0.00754	5.62	1
11031	123678-HxCDF	57117-44-9	0.0306 JBQ	0.00697	5.62	1
11031	123789-HxCDF	72918-21-9	0.0184 JBQ	0.00844	5.62	1
11031	234678-HxCDF	60851-34-5	0.0513 JB	0.00742	5.62	1
11031	1234678-HpCDF	67562-39-4	0.199 JB	0.0172	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0683 JBQ	0.0223	5.62	1
11031	OCDF	39001-02-0	0.175 JBQ	0.0189	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181069
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD105 SDG#: DX037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5B-SB-4.0-5.0

LLI Sample # SW 6181069
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 11:39

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD105 SDG#: DX037-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	01/31/2011 21:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-109-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181070
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD109 SDG#: DX037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181070
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD109 SDG#: DX037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0246 JBQ	0.00981	1.13	1
11031	12378-PeCDD	40321-76-4	0.0475 JQ	0.0113	5.64	1
11031	123478-HxCDD	39227-28-6	0.0362 JB	0.00936	5.64	1
11031	123678-HxCDD	57653-85-7	0.0396 JBQ	0.00958	5.64	1
11031	123789-HxCDD	19408-74-3	0.0448 JB	0.00913	5.64	1
11031	1234678-HpCDD	35822-46-9	0.266 JB	0.0141	5.64	1
11031	OCDD	3268-87-9	1.60 JB	0.0136	11.3	1
11031	2378-TCDF	51207-31-9	0.0170 J	0.00722	1.13	1
11031	12378-PeCDF	57117-41-6	0.0728 JBQ	0.00428	5.64	1
11031	23478-PeCDF	57117-31-4	0.0972 JB	0.00417	5.64	1
11031	123478-HxCDF	70648-26-9	0.0462 JBQ	0.00699	5.64	1
11031	123678-HxCDF	57117-44-9	0.0433 JB	0.00643	5.64	1
11031	123789-HxCDF	72918-21-9	0.0342 JB	0.00676	5.64	1
11031	234678-HxCDF	60851-34-5	0.0548 JBQ	0.00665	5.64	1
11031	1234678-HpCDF	67562-39-4	0.154 JB	0.0131	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0265 JB	0.0188	5.64	1
11031	OCDF	39001-02-0	0.168 JB	0.0158	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-109-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181070
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD109 SDG#: DX037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5B-SB-4.0-5.0

LLI Sample # SW 6181070
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:52

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD109 SDG#: DX037-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	01/31/2011 22:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181071
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2404 SDG#: DX037-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181071
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2404 SDG#: DX037-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.110	JBQ	0.0204	1.15	1
11031	12378-PeCDD	40321-76-4	0.427	J	0.0392	5.73	1
11031	123478-HxCDD	39227-28-6	0.874	JB	0.0351	5.73	1
11031	123678-HxCDD	57653-85-7	3.83	JB	0.0362	5.73	1
11031	123789-HxCDD	19408-74-3	1.50	JB	0.0344	5.73	1
11031	1234678-HpCDD	35822-46-9	103	B	0.0637	5.73	1
11031	OCDD	3268-87-9	1,220	B	0.0598	11.5	1
11031	2378-TCDF	51207-31-9	0.0789	JQ	0.0230	1.15	1
11031	12378-PeCDF	57117-41-6	0.398	JB	0.0135	5.73	1
11031	23478-PeCDF	57117-31-4	0.261	JBQ	0.0128	5.73	1
11031	123478-HxCDF	70648-26-9	0.556	JB	0.0212	5.73	1
11031	123678-HxCDF	57117-44-9	0.463	JB	0.0189	5.73	1
11031	123789-HxCDF	72918-21-9	0.181	JB	0.0210	5.73	1
11031	234678-HxCDF	60851-34-5	0.700	JB	0.0196	5.73	1
11031	1234678-HpCDF	67562-39-4	9.08	B	0.0268	5.73	1
11031	1234789-HpCDF	55673-89-7	0.825	JB	0.0348	5.73	1
11031	OCDF	39001-02-0	22.6	B	0.0286	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181071
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2404 SDG#: DX037-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-4.0-5.0

LLI Sample # SW 6181071
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:11

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2404 SDG#: DX037-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	01/31/2011 23:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-240-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181072
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2409 SDG#: DX037-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-240-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181072
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2409 SDG#: DX037-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0336	JB	0.0160	1.10	1
11031	12378-PeCDD	40321-76-4	0.0178	U	0.0178	5.52	1
11031	123478-HxCDD	39227-28-6	0.0139	U	0.0139	5.52	1
11031	123678-HxCDD	57653-85-7	0.0342	JBQ	0.0142	5.52	1
11031	123789-HxCDD	19408-74-3	0.0348	JBQ	0.0138	5.52	1
11031	1234678-HpCDD	35822-46-9	0.242	JB	0.0221	5.52	1
11031	OCDD	3268-87-9	1.24	JB	0.0230	11.0	1
11031	2378-TCDF	51207-31-9	0.0177	J	0.0106	1.10	1
11031	12378-PeCDF	57117-41-6	0.0417	JB	0.00596	5.52	1
11031	23478-PeCDF	57117-31-4	0.0691	JBQ	0.00563	5.52	1
11031	123478-HxCDF	70648-26-9	0.0372	JBQ	0.00916	5.52	1
11031	123678-HxCDF	57117-44-9	0.0338	JBQ	0.00839	5.52	1
11031	123789-HxCDF	72918-21-9	0.0107	JBQ	0.0100	5.52	1
11031	234678-HxCDF	60851-34-5	0.0432	JBQ	0.00883	5.52	1
11031	1234678-HpCDF	67562-39-4	0.179	JB	0.0172	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0427	JBQ	0.0251	5.52	1
11031	OCDF	39001-02-0	0.176	JBQ	0.0295	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-240-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181072
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2409 SDG#: DX037-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-240-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-240-SA5B-SB-9.0-10.0

LLI Sample # SW 6181072
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 15:14

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2409 SDG#: DX037-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/01/2011 00:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181073
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD106 SDG#: DX037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181073
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD106 SDG#: DX037-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169	U	0.0169	1.08	1
11031	12378-PeCDD	40321-76-4	0.0259	JQ	0.0181	5.38	1
11031	123478-HxCDD	39227-28-6	0.0123	JBQ	0.0116	5.38	1
11031	123678-HxCDD	57653-85-7	0.0267	JB	0.0116	5.38	1
11031	123789-HxCDD	19408-74-3	0.0219	JB	0.0115	5.38	1
11031	1234678-HpCDD	35822-46-9	0.217	JB	0.0187	5.38	1
11031	OCDD	3268-87-9	0.892	JB	0.0155	10.8	1
11031	2378-TCDF	51207-31-9	0.0168	J	0.0119	1.08	1
11031	12378-PeCDF	57117-41-6	0.0212	JBQ	0.00538	5.38	1
11031	23478-PeCDF	57117-31-4	0.0421	JBQ	0.00538	5.38	1
11031	123478-HxCDF	70648-26-9	0.0438	JBQ	0.0102	5.38	1
11031	123678-HxCDF	57117-44-9	0.0326	JBQ	0.00806	5.38	1
11031	123789-HxCDF	72918-21-9	0.0329	JBQ	0.00892	5.38	1
11031	234678-HxCDF	60851-34-5	0.0327	JBQ	0.00839	5.38	1
11031	1234678-HpCDF	67562-39-4	0.116	JB	0.00849	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0299	JBQ	0.0105	5.38	1
11031	OCDF	39001-02-0	0.142	JB	0.0170	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	88	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181073
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD106 SDG#: DX037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5B-SB-4.0-5.0

LLI Sample # SW 6181073
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 13:56

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD106 SDG#: DX037-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/01/2011 20:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181074
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD108 SDG#: DX037-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-108-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181074
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD108 SDG#: DX037-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0157 U	0.0157	1.10	1
11031	12378-PeCDD	40321-76-4	0.0211 U	0.0211	5.51	1
11031	123478-HxCDD	39227-28-6	0.0146 JBQ	0.0140	5.51	1
11031	123678-HxCDD	57653-85-7	0.0310 JBQ	0.0141	5.51	1
11031	123789-HxCDD	19408-74-3	0.0276 JBQ	0.0135	5.51	1
11031	1234678-HpCDD	35822-46-9	0.301 JB	0.0234	5.51	1
11031	OCDD	3268-87-9	1.67 JB	0.0204	11.0	1
11031	2378-TCDF	51207-31-9	0.0182 U	0.0182	1.10	1
11031	12378-PeCDF	57117-41-6	0.0134 JBQ	0.00695	5.51	1
11031	23478-PeCDF	57117-31-4	0.0423 JBQ	0.00684	5.51	1
11031	123478-HxCDF	70648-26-9	0.0291 JBQ	0.0112	5.51	1
11031	123678-HxCDF	57117-44-9	0.0263 JBQ	0.00926	5.51	1
11031	123789-HxCDF	72918-21-9	0.0251 JBQ	0.00904	5.51	1
11031	234678-HxCDF	60851-34-5	0.0391 JB	0.00849	5.51	1
11031	1234678-HpCDF	67562-39-4	0.137 JB	0.0104	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0304 JBQ	0.0121	5.51	1
11031	OCDF	39001-02-0	0.164 JB	0.0226	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-108-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181074
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD108 SDG#: DX037-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5B-SB-4.0-5.0

LLI Sample # SW 6181074
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 14:53

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD108 SDG#: DX037-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/01/2011 21:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-111-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181075
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1114 SDG#: DX037-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181075
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1114 SDG#: DX037-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0293	U	0.0293	1.13	1
11031	12378-PeCDD	40321-76-4	0.151	J	0.0573	5.64	1
11031	123478-HxCDD	39227-28-6	0.446	JB	0.0586	5.64	1
11031	123678-HxCDD	57653-85-7	1.98	JBQ	0.0602	5.64	1
11031	123789-HxCDD	19408-74-3	0.854	JB	0.0555	5.64	1
11031	1234678-HpCDD	35822-46-9	64.2	B	0.0803	5.64	1
11031	OCDD	3268-87-9	787	B	0.0855	11.3	1
11031	2378-TCDF	51207-31-9	0.0410	U	0.0410	1.13	1
11031	12378-PeCDF	57117-41-6	0.213	JBQ	0.0185	5.64	1
11031	23478-PeCDF	57117-31-4	0.293	JB	0.0179	5.64	1
11031	123478-HxCDF	70648-26-9	0.376	JBQ	0.0355	5.64	1
11031	123678-HxCDF	57117-44-9	0.292	JB	0.0304	5.64	1
11031	123789-HxCDF	72918-21-9	0.184	JB	0.0306	5.64	1
11031	234678-HxCDF	60851-34-5	0.426	JB	0.0298	5.64	1
11031	1234678-HpCDF	67562-39-4	6.50	B	0.0273	5.64	1
11031	1234789-HpCDF	55673-89-7	0.688	JB	0.0330	5.64	1
11031	OCDF	39001-02-0	20.0	B	0.0328	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181075
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1114 SDG#: DX037-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-4.0-5.0

LLI Sample # SW 6181075
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:04

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1114 SDG#: DX037-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/01/2011 21:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181076
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1119 SDG#: DX037-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181076
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1119 SDG#: DX037-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0217	JBQ	0.0200	1.14	1
11031	12378-PeCDD	40321-76-4	0.0688	JQ	0.0285	5.68	1
11031	123478-HxCDD	39227-28-6	0.128	JBQ	0.0310	5.68	1
11031	123678-HxCDD	57653-85-7	0.593	JB	0.0315	5.68	1
11031	123789-HxCDD	19408-74-3	0.286	JB	0.0297	5.68	1
11031	1234678-HpCDD	35822-46-9	13.6	B	0.0467	5.68	1
11031	OCDD	3268-87-9	146	B	0.0334	11.4	1
11031	2378-TCDF	51207-31-9	0.0202	U	0.0202	1.14	1
11031	12378-PeCDF	57117-41-6	0.0419	JB	0.00841	5.68	1
11031	23478-PeCDF	57117-31-4	0.0607	JB	0.00852	5.68	1
11031	123478-HxCDF	70648-26-9	0.120	JBQ	0.0214	5.68	1
11031	123678-HxCDF	57117-44-9	0.0833	JBQ	0.0170	5.68	1
11031	123789-HxCDF	72918-21-9	0.0708	JBQ	0.0166	5.68	1
11031	234678-HxCDF	60851-34-5	0.138	JBQ	0.0155	5.68	1
11031	1234678-HpCDF	67562-39-4	1.38	JB	0.0183	5.68	1
11031	1234789-HpCDF	55673-89-7	0.147	JBQ	0.0217	5.68	1
11031	OCDF	39001-02-0	3.68	JB	0.0215	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	91	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181076
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1119 SDG#: DX037-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5B-SB-9.0-10.0

LLI Sample # SW 6181076
LLI Group # 1228531
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/10/2011 16:08

Submitted: 01/11/2011 09:45
Reported: 03/01/2011 19:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1119 SDG#: DX037-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/01/2011 22:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402A	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228531
Reported: 03/01/11 at 07:40 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11018162402A	Sample number(s): 6181065-6181076								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11025001	Sample number(s): 6181065-6181076								
2378-TCDD	0.0273 J	0.0144	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0174 U	0.0174	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0187 J	0.00970	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0201 J	0.00980	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0241 J	0.00930	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.176 J	0.0179	5.00	ng/kg	94		70-140		
OCDD	0.416 J	0.0171	10.0	ng/kg	95		78-144		
2378-TCDF	0.0112 U	0.0112	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0248 J	0.00520	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0623 J	0.00520	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0420 J	0.00860	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0468 J	0.00750	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0478 J	0.00880	5.00	ng/kg	87		78-130		
234678-HxCDF	0.0556 J	0.00820	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.156 J	0.00660	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0445 J	0.00940	5.00	ng/kg	92		78-138		
OCDF	0.181 J	0.0162	10.0	ng/kg	86		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11018162402A	Sample number(s): 6181065-6181076 BKG: P181002								
28a Moisture Content by 160.3						12.7	11.5	10	20
Batch number: 11025001	Sample number(s): 6181065-6181076 UNSPK: P182842								
2378-TCDD	98	98	67-158	0	25				
12378-PeCDD	104	104	70-142	0	25				
123478-HxCDD	105	106	70-164	1	25				
123678-HxCDD	106	105	76-134	1	25				
123789-HxCDD	105	104	64-162	1	25				
1234678-HpCDD	115	105	70-140	9	25				
OCDD	169*	108	78-144	39*	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228531
Reported: 03/01/11 at 07:40 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	109	108	75-158	1	25				
12378-PeCDF	109	108	80-134	1	25				
23478-PeCDF	107	106	68-160	1	25				
123478-HxCDF	108	109	72-134	1	25				
123678-HxCDF	108	108	84-130	1	25				
123789-HxCDF	107	107	78-130	0	25				
234678-HxCDF	107	109	70-156	2	25				
1234678-HpCDF	109	107	82-122	2	25				
1234789-HpCDF	109	109	78-138	0	25				
OCDF	110	107	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11025001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6181065	66	67	64	68	63	62
6181066	70	65	64	66	64	66
6181067	68	63	61	64	62	61
6181068	69	65	65	69	66	66
6181069	69	67	65	70	66	64
6181070	75	69	67	71	68	69
6181071	80	70	64	69	68	67
6181072	63	59	59	63	59	56
6181073	70	73	64	78	78	78
6181074	82	81	65	77	83	86
6181075	59	61	59	66	67	71
6181076	73	75	57	70	76	76
Blank	82	75	72	81	74	74
MS	76	82	83	84	83	83
MSD	73	79	81	84	83	81
OPR	69	67	67	76	68	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6181065	71	60	58	81	70	74
6181066	65	64	63	88	68	74
6181067	64	61	60	81	67	72
6181068	70	65	61	84	67	77
6181069	70	64	63	83	72	77
6181070	74	65	62	87	74	79
6181071	67	64	61	86	74	78
6181072	66	54	50	77	64	69

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228531
Reported: 03/01/11 at 07:40 PM

Surrogate Quality Control

6181073	83	81	88	85	74	75
6181074	79	81	85	88	80	79
6181075	73	73	81	76	61	65
6181076	79	81	91	78	75	74
Blank	86	72	71	101	82	88
MS	92	93	107	85	80	84
MSD	95	91	105	83	78	81
OPR	74	61	57	86	71	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6181065	75	72	74	72	65	69
6181066	73	73	75	74	71	66
6181067	71	70	71	70	67	62
6181068	76	76	77	73	68	65
6181069	76	76	77	74	69	68
6181070	79	79	79	76	72	71
6181071	78	77	76	71	76	73
6181072	70	70	69	64	61	61
6181073	77	77	81	89	68	78
6181074	79	81	85	92	80	85
6181075	66	66	73	84	58	63
6181076	75	76	83	95	69	78
Blank	88	88	89	90	77	83
MS	80	81	89	102	78	81
MSD	80	80	89	102	74	79
OPR	79	79	76	70	66	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1228531 6181065-76

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: *VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	*TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 6850	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-107-SA5B-SB-4.0-5.0	01.10.1	0959	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-107-SA5B-SB-4.5	01.10.1	0958	SOIL	NONE	4 ENCORES											X	X												
SL-053-SA5B-SB-1.8-2.8	01.10.1	0957	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-053-SA5B-SB-2.5	01.10.1	0954	SOIL	NONE	4 ENCORES											X	X												
SL-054-SA5B-SB-3.0-4.0	01.10.1	1054	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-054-SA5B-SB-3.5	01.10.1	1056	SOIL	NONE	4 ENCORES											X	X												
SL-110-SA5B-SB-4.0-5.0	01.10.1	1028	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-110-SA5B-SB-4.5	01.10.1	1025	SOIL	NONE	4 ENCORES											X	X												
SL-105-SA5B-SB-4.0-5.0	01.10.1	1129	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-105-SA5B-SB-4.5	01.10.1	1125	SOIL	NONE	4 ENCORES											X	X												
SL-109-SA5B-SB-4.0-5.0	01.10.1	1352	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X																
SL-109-SA5B-SB-4.5	01.10.1	1347	SOIL	NONE	4 ENCORES											X	X												
SL-249-SA5B-SB-4.0-5.0	01.10.1	1511	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-249-SA5B-SB-4.5	01.10.1	1507	SOIL	NONE	4 ENCORES											X	X												
SL-249-SA5B-SB-9.0-10.0	01.10.1	1514	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-106-SA5B-SB-4.0-5.0	01.10.1	1356	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-106-SA5B-SB-4.5	01.10.1	1352	SOIL	NONE	4 ENCORES											X	X												
SL-108-SA5B-SB-4.0-5.0	01.10.1	1453	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-108-SA5B-SB-4.5	01.10.1	1450	SOIL	NONE	4 ENCORES											X	X												
SL-111-SA5B-SB-4.0-5.0	01.10.1	1604	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-111-SA5B-SB-4.5	01.10.1	1600	SOIL	NONE	4 ENCORES											X	X												
SL-111-SA5B-SB-9.0-10.0	01.10.1	1608	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
TB-011011	01.10.1	0800	WATER	HCl	3-40 mL VOA VIALS											X	X												

Relinquished by: (Signature) — Date/Time: 1/10/2011, 16:30 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 1/11/11 — Airbill No.(s): 8695 1432 2854, ...2855

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

GMS

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/13/2011
Group Number: 1228867
SDG: DE057
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-099-SA5B-SB-4.0-5.0 Soil	6182702
SL-100-SA5B-SB-4.0-5.0 Soil	6182703
SL-087-SA5B-SB-3.0-4.0 Soil	6182704
SL-085-SA5B-SB-3.0-4.0 Soil	6182705
SL-088-SA5B-SB-3.0-4.0 Soil	6182706
SL-089-SA5B-SB-4.0-5.0 Soil	6182707
SL-090-SA5B-SB-2.5-3.5 Soil	6182708
SL-091-SA5B-SB-4.0-5.0 Soil	6182709
SL-086-SA5B-SB-4.0-5.0 Soil	6182710
SL-094-SA5B-SB-4.0-5.0 Soil	6182711
SL-093-SA5B-SB-3.0-4.0 Soil	6182712
TB-011111 Water	6182713

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-099-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	1.2	J	0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-099-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.94
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	23.0	J	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

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Sample Description: SL-099-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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Sample Description: SL-099-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-099-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,400		5.49	21.8		1
07914	Boron	7440-42-8	1.14	J	0.971	5.45		1
01650	Calcium	7440-70-2	3,350		6.69	21.8		1
01654	Iron	7439-89-6	28,300		5.14	21.8		1
01656	Lithium	7439-93-2	34.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,730		2.77	10.9		1
06958	Manganese	7439-96-5	293		0.0851	0.545		1
10145	Phosphorus	7723-14-0	291		0.611	10.9		1
01662	Potassium	7440-09-7	1,700		19.6	54.5		1
01667	Sodium	7440-23-5	174		40.7	109		1
07968	Strontium	7440-24-6	24.9		0.0676	0.545		1
06969	Tin	7440-31-5	2.92	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,260		0.415	1.09		1
10146	Zirconium	7440-67-7	1.17	J	0.916	5.45		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.242		0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.30		0.0898	0.449		2
06126	Barium	7440-39-3	71.7		0.121	0.449		2
06127	Beryllium	7440-41-7	0.734		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0485	J	0.0449	0.112		2
06131	Chromium	7440-47-3	21.5		0.135	0.449		2
06132	Cobalt	7440-48-4	3.96		0.0225	0.112		2
06133	Copper	7440-50-8	4.91		0.0741	0.449		2
06135	Lead	7439-92-1	6.55		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.417		0.0562	0.112		2
06139	Nickel	7440-02-0	11.0		0.112	0.449		2
06141	Selenium	7782-49-2	0.140	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0427	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.213		0.0337	0.112		2
06148	Vanadium	7440-62-2	42.9		0.0247	0.112		2
06149	Zinc	7440-66-6	41.6		0.629	3.37		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	386		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.76		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-099-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/13/2011 23:14	Laura M Krieger	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 11:51	Jason M Long	19.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323496	01/13/2011 11:59	Lisa J Cooke	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-099-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323495	01/13/2011 12:01	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323495	01/13/2011 12:01	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201101323495	01/13/2011 12:00	Lisa J Cooke	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 08:56	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 00:06	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 13:02	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 22:25	Marie D John	21.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323495	01/13/2011 12:01	Lisa J Cooke	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/19/2011 23:01	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 17:33	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/25/2011 23:42	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 10:45	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 13:38	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 19:45	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/20/2011 21:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 14:15	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1

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Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182702
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE057-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 05:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 13:07	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:07	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:09	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 04:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/26/2011 23:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025201A	01/26/2011 23:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/20/2011 02:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11024243202A	01/25/2011 12:50	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11021102201A	01/21/2011 18:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11021102201A	01/21/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-100-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		1
06192	Methylene Chloride	75-09-2	0.74	J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-100-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		23.5
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.3	U	18.3	36.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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Sample Description: SL-100-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1

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Sample Description: SL-100-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1

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Sample Description: SL-100-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-100-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,300		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.37		1
01650	Calcium	7440-70-2	3,340		6.59	21.5		1
01654	Iron	7439-89-6	26,000		5.06	21.5		1
01656	Lithium	7439-93-2	35.4		0.24	2.1		1
01657	Magnesium	7439-95-4	6,200		2.73	10.7		1
06958	Manganese	7439-96-5	375		0.0838	0.537		1
10145	Phosphorus	7723-14-0	329		0.602	10.7		1
01662	Potassium	7440-09-7	1,770		19.3	53.7		1
01667	Sodium	7440-23-5	155		40.1	107		1
07968	Strontium	7440-24-6	25.7		0.0666	0.537		1
06969	Tin	7440-31-5	2.69	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,220		0.408	1.07		1
10146	Zirconium	7440-67-7	1.64	J	0.903	5.37		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.165	J	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.83		0.0852	0.426		2
06126	Barium	7440-39-3	100		0.115	0.426		2
06127	Beryllium	7440-41-7	0.668		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0560	J	0.0426	0.106		2
06131	Chromium	7440-47-3	20.8		0.128	0.426		2
06132	Cobalt	7440-48-4	8.71		0.0213	0.106		2
06133	Copper	7440-50-8	8.08		0.0703	0.426		2
06135	Lead	7439-92-1	6.67		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.552		0.0532	0.106		2
06139	Nickel	7440-02-0	16.4		0.106	0.426		2
06141	Selenium	7782-49-2	0.136	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0138	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.219		0.0319	0.106		2
06148	Vanadium	7440-62-2	41.4		0.0234	0.106		2
06149	Zinc	7440-66-6	53.2		0.596	3.19		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.88	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	401		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-100-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/13/2011 23:36	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 12:10	Jason M Long	23.5
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323496	01/13/2011 11:54	Lisa J Cooke	n.a.

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Sample Description: SL-100-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323495	01/13/2011 11:57	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323495	01/13/2011 11:57	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201101323495	01/13/2011 11:55	Lisa J Cooke	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 09:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 00:31	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 13:34	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 23:01	Marie D John	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323495	01/13/2011 11:56	Lisa J Cooke	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/19/2011 23:43	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 17:42	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 00:00	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 11:10	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 13:53	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 20:02	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/20/2011 22:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 14:43	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182703
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE057-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:00	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/23/2011 19:20	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:26	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/23/2011 19:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:20	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 00:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025201A	01/27/2011 00:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/20/2011 02:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 13:09	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11021102201A	01/21/2011 18:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11021102201A	01/21/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-087-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.95
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.95
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.95
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.95
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.95
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.95
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.95
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.95
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.95
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.95
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.95
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.95
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.95
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.95
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.95
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.95
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.95
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.95
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.95
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.95
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.95
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.95
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.95
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.95
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.95
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.95
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.95
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.95
06192	Methylene Chloride	75-09-2	0.67	J	0.25	4.1		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-087-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.95
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.95
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.95
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.95
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.95
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.95
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.95
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.95
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.9	U	5.9	18		27.17
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	26.8	J	17.9	35.9		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-087-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	1.5	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-087-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	1.1	J	0.72	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.67
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1

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Sample Description: SL-087-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.1		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.1		2
10225	Aroclor 5460	11126-42-4	2.3	J	2.2	7.1		2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.7		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.7		2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.7		2
10225	PCB-1242	53469-21-9	45		1.1	3.7		2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.7		2
10225	PCB-1254	11097-69-1	1.9	J	0.71	3.7		2
10225	PCB-1260	11096-82-5	1.4	J	0.71	3.7		2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.7		2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.7		2
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	150	J	110	540		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-087-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		5.31	21.1		1
07914	Boron	7440-42-8	0.939	U	0.939	5.28		1
01650	Calcium	7440-70-2	2,590		6.47	21.1		1
01654	Iron	7439-89-6	19,100		4.97	21.1		1
01656	Lithium	7439-93-2	24.6		0.23	2.1		1
01657	Magnesium	7439-95-4	5,050		2.68	10.6		1
06958	Manganese	7439-96-5	278		0.0823	0.528		1
10145	Phosphorus	7723-14-0	324		0.591	10.6		1
01662	Potassium	7440-09-7	2,750		19.0	52.8		1
01667	Sodium	7440-23-5	195		39.4	106		1
07968	Strontium	7440-24-6	15.0		0.0654	0.528		1
06969	Tin	7440-31-5	2.44	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,260		0.401	1.06		1
10146	Zirconium	7440-67-7	0.886	U	0.886	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0627	U	0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.00		0.0836	0.418		2
06126	Barium	7440-39-3	62.4		0.113	0.418		2
06127	Beryllium	7440-41-7	0.328		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.0418	U	0.0418	0.105		2
06131	Chromium	7440-47-3	13.4		0.125	0.418		2
06132	Cobalt	7440-48-4	3.74		0.0209	0.105		2
06133	Copper	7440-50-8	5.56		0.0690	0.418		2
06135	Lead	7439-92-1	3.05		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.204		0.0523	0.105		2
06139	Nickel	7440-02-0	7.68		0.105	0.418		2
06141	Selenium	7782-49-2	0.0418	U	0.0418	0.418		2
06142	Silver	7440-22-4	0.0125	U	0.0125	0.105		2
06145	Thallium	7440-28-0	0.223		0.0314	0.105		2

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Sample Description: SL-087-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	27.4		0.0230	0.105		2
06149	Zinc	7440-66-6	42.3		0.585	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	376		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-087-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-087-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/13/2011 23:59	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 12:30	Jason M Long	27.17
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323496	01/13/2011 11:51	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323495	01/13/2011 11:57	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323495	01/13/2011 11:57	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201101323495	01/13/2011 11:52	Lisa J Cooke	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 09:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 00:56	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 14:07	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 23:38	Marie D John	25.67
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323495	01/13/2011 11:52	Lisa J Cooke	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 00:26	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 17:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 00:19	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 11:35	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 14:08	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 20:18	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/20/2011 22:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 14:54	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1

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Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182704
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE057-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 13:29	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:29	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:26	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 00:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025201A	01/27/2011 00:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/20/2011 02:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11024243202A	01/25/2011 13:15	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11021102201A	01/21/2011 18:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11021102201A	01/21/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-085-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE057-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.97
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.97
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.97
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.97
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.97
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.97
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.97
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.97
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.97
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.97
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.97
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.97
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.97
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.97
06192	Methylene Chloride	75-09-2	0.79	J	0.25	4.2		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.97

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Sample Description: SL-085-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE057-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.97
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.97
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.97

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	6.3	U	6.3	19		29.07
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	22.1	J	18.1	36.1		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

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Sample Description: SL-085-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE057-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1

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Sample Description: SL-085-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5704 SDG#: DE057-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.72
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-085-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5704 SDG#: DE057-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
	The sample was injected numerous times. Each time the responses for various							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-085-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE057-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,000		5.24	20.8		1
07914	Boron	7440-42-8	0.927	U	0.927	5.21		1
01650	Calcium	7440-70-2	2,960		6.39	20.8		1
01654	Iron	7439-89-6	26,500		4.91	20.8		1
01656	Lithium	7439-93-2	30.7		0.23	2.1		1
01657	Magnesium	7439-95-4	5,740		2.65	10.4		1
06958	Manganese	7439-96-5	204		0.0813	0.521		1
10145	Phosphorus	7723-14-0	216		0.583	10.4		1
01662	Potassium	7440-09-7	1,890		18.8	52.1		1
01667	Sodium	7440-23-5	136		38.9	104		1
07968	Strontium	7440-24-6	26.3		0.0646	0.521		1
06969	Tin	7440-31-5	2.95	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,330		0.396	1.04		1
10146	Zirconium	7440-67-7	1.66	J	0.875	5.21		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.132	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.61		0.0858	0.429		2
06126	Barium	7440-39-3	112		0.116	0.429		2
06127	Beryllium	7440-41-7	0.757		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0517	J	0.0429	0.107		2
06131	Chromium	7440-47-3	18.8		0.129	0.429		2
06132	Cobalt	7440-48-4	5.31		0.0215	0.107		2
06133	Copper	7440-50-8	6.05		0.0708	0.429		2
06135	Lead	7439-92-1	6.57		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.549		0.0536	0.107		2
06139	Nickel	7440-02-0	9.77		0.107	0.429		2
06141	Selenium	7782-49-2	0.0822	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0414	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.407		0.0322	0.107		2
06148	Vanadium	7440-62-2	42.7		0.0236	0.107		2
06149	Zinc	7440-66-6	42.9		0.601	3.22		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE057-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.87	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.97	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	418		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	7.7		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-085-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/14/2011 00:21	Laura M Krieger	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 12:49	Jason M Long	29.07
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323496	01/13/2011 12:08	Lisa J Cooke	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE057-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323495	01/13/2011 12:10	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323495	01/13/2011 12:10	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201101323495	01/13/2011 12:09	Lisa J Cooke	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 09:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 01:21	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 14:39	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/18/2011 00:14	Marie D John	23.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323495	01/13/2011 12:09	Lisa J Cooke	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 01:08	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 18:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 00:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 12:00	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 14:22	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 20:34	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/20/2011 23:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 14:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182705
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE057-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 13:38	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:38	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:28	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 00:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025201A	01/27/2011 00:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/20/2011 03:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 13:37	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11021102201A	01/21/2011 18:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11021102201A	01/21/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.88
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.88
06192	Methylene Chloride	75-09-2	0.68	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		23.11
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.2		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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Sample Description: SL-088-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.50	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.83	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.63	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1

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Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.85
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1

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Sample Description: SL-088-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	18		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	18		5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.5		5
10225	PCB-1221	11104-28-2	2.8	U	2.8	9.5		5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.5		5
10225	PCB-1242	53469-21-9	2.8	U	2.8	9.5		5
10225	PCB-1248	12672-29-6	170		1.8	9.5		5
10225	PCB-1254	11097-69-1	5.2	J	1.8	9.5		5
10225	PCB-1260	11096-82-5	3.4	J	1.8	9.5		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.5		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.5		5
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	5.3		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	21		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.61	22.3		1
07914	Boron	7440-42-8	2.53	J	0.993	5.58		1
01650	Calcium	7440-70-2	4,780		6.84	22.3		1
01654	Iron	7439-89-6	19,800		5.26	22.3		1
01656	Lithium	7439-93-2	23.0		0.25	2.2		1
01657	Magnesium	7439-95-4	4,480		2.83	11.2		1
06958	Manganese	7439-96-5	310		0.0871	0.558		1
10145	Phosphorus	7723-14-0	291		0.625	11.2		1
01662	Potassium	7440-09-7	3,280		20.1	55.8		1
01667	Sodium	7440-23-5	455		41.6	112		1
07968	Strontium	7440-24-6	24.8		0.0692	0.558		1
06969	Tin	7440-31-5	2.41	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,200		0.424	1.12		1
10146	Zirconium	7440-67-7	2.01	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.15		0.0875	0.438		2
06126	Barium	7440-39-3	98.1		0.118	0.438		2
06127	Beryllium	7440-41-7	0.569		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.189		0.0438	0.109		2
06131	Chromium	7440-47-3	17.3		0.131	0.438		2
06132	Cobalt	7440-48-4	5.28		0.0219	0.109		2
06133	Copper	7440-50-8	8.73		0.0722	0.438		2
06135	Lead	7439-92-1	6.19		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.492		0.0547	0.109		2
06139	Nickel	7440-02-0	11.0		0.109	0.438		2
06141	Selenium	7782-49-2	0.108	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0297	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.275		0.0328	0.109		2
06148	Vanadium	7440-62-2	34.2		0.0241	0.109		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	111	0.613	3.28		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.1	0.89	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	379	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-088-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/14/2011 00:44	Laura M Krieger	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 13:08	Jason M Long	23.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323496	01/13/2011 12:04	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323495	01/13/2011 12:06	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323495	01/13/2011 12:06	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201101323495	01/13/2011 12:05	Lisa J Cooke	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 10:20	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 01:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 15:11	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/18/2011 00:51	Marie D John	22.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323495	01/13/2011 12:05	Lisa J Cooke	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 01:50	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 18:11	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110170022A	01/20/2011 15:05	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 00:56	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110170022A	01/18/2011 10:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 19:06	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 14:37	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 21:40	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 13:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:02	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1

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Sample Description: SL-088-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:41	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 13:41	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:41	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:30	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:41	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 00:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025201A	01/27/2011 00:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/20/2011 03:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 13:49	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11021102201A	01/21/2011 18:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11021102201A	01/21/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182706
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE057-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.98
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.98
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.98
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.98
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.98
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		0.98
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.98
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.98
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.98
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.98
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.98
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.98
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.98
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.98
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.98
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.98
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.98
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.98
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.98
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.98
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.98
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.98
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.98
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.98
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		0.98
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.98
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		0.98
06192	Methylene Chloride	75-09-2	0.67	J	0.27	4.5		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.98

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Sample Description: SL-089-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.98
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		0.98
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.98
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.98
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.98
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.98
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.98
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.2
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	63.5		19.2	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

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Sample Description: SL-089-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.43	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.65	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.98
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	120	J	110	570		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-089-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,900		5.67	22.5		1
07914	Boron	7440-42-8	5.11	J	1.00	5.63		1
01650	Calcium	7440-70-2	3,630		6.91	22.5		1
01654	Iron	7439-89-6	30,100		5.31	22.5		1
01656	Lithium	7439-93-2	35.6		0.25	2.3		1
01657	Magnesium	7439-95-4	6,910		2.86	11.3		1
06958	Manganese	7439-96-5	351		0.0879	0.563		1
10145	Phosphorus	7723-14-0	346		0.631	11.3		1
01662	Potassium	7440-09-7	2,460		20.3	56.3		1
01667	Sodium	7440-23-5	334		42.0	113		1
07968	Strontium	7440-24-6	34.6		0.0699	0.563		1
06969	Tin	7440-31-5	2.76	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,730		0.428	1.13		1
10146	Zirconium	7440-67-7	0.947	U	0.947	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.11		0.0920	0.460		2
06126	Barium	7440-39-3	140		0.124	0.460		2
06127	Beryllium	7440-41-7	0.795		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0460	U	0.0460	0.115		2
06131	Chromium	7440-47-3	21.9		0.138	0.460		2
06132	Cobalt	7440-48-4	5.54		0.0230	0.115		2
06133	Copper	7440-50-8	6.46		0.0759	0.460		2
06135	Lead	7439-92-1	6.20		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.907		0.0575	0.115		2
06139	Nickel	7440-02-0	10.5		0.115	0.460		2
06141	Selenium	7782-49-2	0.133	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0481	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.220		0.0345	0.115		2
06148	Vanadium	7440-62-2	42.6		0.0253	0.115		2
06149	Zinc	7440-66-6	45.7		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.7		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	428		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	13.0		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/14/2011	01:06	Laura M Krieger	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011	13:28	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011	15:53	Christopher M Klumpp	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 15:48	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 10:36	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 02:12	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 23:39	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/18/2011 01:27	Marie D John	22.98
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 15:47	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 02:33	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 18:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 01:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 12:25	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 14:52	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 21:56	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 00:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 15:06	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182707
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE057-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:45	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 13:45	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:45	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:32	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:45	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 01:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025201A	01/27/2011 01:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/20/2011 03:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 14:01	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11021102201A	01/21/2011 18:32	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11021102201A	01/21/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.91
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.91
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.91
06192	Methylene Chloride	75-09-2	0.70	J	0.24	4.0		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.91

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.91
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	54.6		18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	8.5	J	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.74
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1

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Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.54	J	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.73	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	130	J	110	550		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,700		5.24	20.8		1
07914	Boron	7440-42-8	2.59	J	0.926	5.20		1
01650	Calcium	7440-70-2	1,920		6.38	20.8		1
01654	Iron	7439-89-6	20,100		4.90	20.8		1
01656	Lithium	7439-93-2	21.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,830		2.64	10.4		1
06958	Manganese	7439-96-5	292		0.0812	0.520		1
10145	Phosphorus	7723-14-0	316		0.583	10.4		1
01662	Potassium	7440-09-7	3,100		18.7	52.0		1
01667	Sodium	7440-23-5	311		38.8	104		1
07968	Strontium	7440-24-6	18.4		0.0645	0.520		1
06969	Tin	7440-31-5	2.25	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,220		0.396	1.04		1
10146	Zirconium	7440-67-7	1.88	J	0.874	5.20		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0784	J	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.32		0.0857	0.429		2
06126	Barium	7440-39-3	112		0.116	0.429		2
06127	Beryllium	7440-41-7	0.613		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.110		0.0429	0.107		2
06131	Chromium	7440-47-3	16.2		0.129	0.429		2
06132	Cobalt	7440-48-4	5.19		0.0214	0.107		2
06133	Copper	7440-50-8	8.34		0.0707	0.429		2
06135	Lead	7439-92-1	5.28		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.593		0.0536	0.107		2
06139	Nickel	7440-02-0	11.1		0.107	0.429		2
06141	Selenium	7782-49-2	0.0848	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0393	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.272		0.0321	0.107		2
06148	Vanadium	7440-62-2	32.7		0.0236	0.107		2
06149	Zinc	7440-66-6	47.5		0.600	3.21		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	25.2		0.87	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	453		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	5.94		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-090-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/14/2011	01:29	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011	13:47	Jason M Long	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323496	01/13/2011	12:12	Lisa J Cooke	n.a.

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Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323495	01/13/2011 12:14	Lisa J Cooke	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323495	01/13/2011 12:14	Lisa J Cooke	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201101323495	01/13/2011 12:13	Lisa J Cooke	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 10:53	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 02:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/21/2011 00:12	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/18/2011 02:03	Marie D John	21.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323495	01/13/2011 12:13	Lisa J Cooke	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 03:15	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 18:30	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 01:33	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 12:50	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 15:07	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 22:13	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 10:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182708
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE057-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 13:48	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:48	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/23/2011 19:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:33	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 01:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025201A	01/27/2011 01:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621201A	01/20/2011 04:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 14:14	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11021102201A	01/21/2011 18:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621201B	01/19/2011 13:32	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11021102201A	01/21/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182709
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE057-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.86
06192	Methylene Chloride	75-09-2	0.49	J	0.23	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182709
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE057-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		19.9
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	48.8		19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-091-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182709
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE057-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182709
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE057-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.65
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182709
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE057-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-091-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182709
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE057-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,600		5.56	22.1		1
07914	Boron	7440-42-8	1.29	J	0.984	5.53		1
01650	Calcium	7440-70-2	2,940		6.78	22.1		1
01654	Iron	7439-89-6	23,800		5.21	22.1		1
01656	Lithium	7439-93-2	27.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,180		2.81	11.1		1
06958	Manganese	7439-96-5	227		0.0863	0.553		1
10145	Phosphorus	7723-14-0	198		0.619	11.1		1
01662	Potassium	7440-09-7	1,960		19.9	55.3		1
01667	Sodium	7440-23-5	113		41.2	111		1
07968	Strontium	7440-24-6	24.8		0.0686	0.553		1
06969	Tin	7440-31-5	2.82	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,270		0.420	1.11		1
10146	Zirconium	7440-67-7	1.74	J	0.929	5.53		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.181	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.69		0.0885	0.442		2
06126	Barium	7440-39-3	103		0.119	0.442		2
06127	Beryllium	7440-41-7	0.717		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0442	U	0.0442	0.111		2
06131	Chromium	7440-47-3	20.0		0.133	0.442		2
06132	Cobalt	7440-48-4	3.07		0.0221	0.111		2
06133	Copper	7440-50-8	5.79		0.0730	0.442		2
06135	Lead	7439-92-1	5.14		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.407		0.0553	0.111		2
06139	Nickel	7440-02-0	9.34		0.111	0.442		2
06141	Selenium	7782-49-2	0.0586	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0387	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.226		0.0332	0.111		2
06148	Vanadium	7440-62-2	39.0		0.0243	0.111		2
06149	Zinc	7440-66-6	43.7		0.619	3.32		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182709
LLI Group # 1228867
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14420 Albemarle Point Place
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Chantilly VA 20151

E5708 SDG#: DE057-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	9.8		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	438		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.67		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-091-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/14/2011	01:51	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011	14:07	Jason M Long	19.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011	15:59	Christopher M Klumpp	n.a.

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SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182709
LLI Group # 1228867
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E5708 SDG#: DE057-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 15:57	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 11:10	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 03:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/21/2011 00:44	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/18/2011 02:40	Marie D John	19.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 15:56	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 03:58	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 18:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 01:52	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 13:15	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 15:21	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 22:29	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 01:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1

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SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

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E5708 SDG#: DE057-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 13:51	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:51	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:35	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 01:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025201A	01/27/2011 01:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/26/2011 17:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 14:39	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11021102201A	01/21/2011 18:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11021102201A	01/21/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182710
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE057-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.8	U	8.8	11		1.17
06192	Benzene	71-43-2	0.13	U	0.13	5.3		1.17
06192	Bromobenzene	108-86-1	0.17	U	0.17	5.3		1.17
06192	Bromochloromethane	74-97-5	0.43	U	0.43	5.3		1.17
06192	Bromodichloromethane	75-27-4	0.11	U	0.11	5.3		1.17
06192	Bromoform	75-25-2	0.53	U	0.53	5.3		1.17
06192	Bromomethane	74-83-9	0.33	U	0.33	5.3		1.17
06192	2-Butanone	78-93-3	1.6	U	1.6	11		1.17
06192	n-Butylbenzene	104-51-8	0.16	U	0.16	5.3		1.17
06192	sec-Butylbenzene	135-98-8	0.08	U	0.08	5.3		1.17
06192	tert-Butylbenzene	98-06-6	0.21	U	0.21	5.3		1.17
06192	Carbon Tetrachloride	56-23-5	0.18	U	0.18	5.3		1.17
06192	Chlorobenzene	108-90-7	0.14	U	0.14	5.3		1.17
06192	Chloroethane	75-00-3	0.17	U	0.17	5.3		1.17
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.39	U	0.39	5.3		1.17
06192	Chloroform	67-66-3	0.16	U	0.16	5.3		1.17
06192	Chloromethane	74-87-3	0.43	U	0.43	5.3		1.17
06192	2-Chlorotoluene	95-49-8	0.18	U	0.18	5.3		1.17
06192	4-Chlorotoluene	106-43-4	0.18	U	0.18	5.3		1.17
06192	Chlorotrifluoroethene	79-38-9	0.66	U	0.66	6.6		1.17
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.92	U	0.92	5.3		1.17
06192	Dibromochloromethane	124-48-1	0.26	U	0.26	5.3		1.17
06192	1,2-Dibromoethane	106-93-4	0.22	U	0.22	5.3		1.17
06192	Dibromomethane	74-95-3	0.32	U	0.32	5.3		1.17
06192	1,2-Dichlorobenzene	95-50-1	0.12	U	0.12	5.3		1.17
06192	1,3-Dichlorobenzene	541-73-1	0.16	U	0.16	5.3		1.17
06192	1,4-Dichlorobenzene	106-46-7	0.21	U	0.21	5.3		1.17
06192	Dichlorodifluoromethane	75-71-8	0.16	U	0.16	5.3		1.17
06192	1,1-Dichloroethane	75-34-3	0.13	U	0.13	5.3		1.17
06192	1,2-Dichloroethane	107-06-2	0.20	U	0.20	5.3		1.17
06192	1,1-Dichloroethene	75-35-4	0.51	U	0.51	5.3		1.17
06192	cis-1,2-Dichloroethene	156-59-2	0.25	U	0.25	5.3		1.17
06192	trans-1,2-Dichloroethene	156-60-5	0.16	U	0.16	5.3		1.17
06192	1,2-Dichloropropane	78-87-5	0.22	U	0.22	5.3		1.17
06192	1,3-Dichloropropane	142-28-9	0.11	U	0.11	5.3		1.17
06192	2,2-Dichloropropane	594-20-7	0.22	U	0.22	5.3		1.17
06192	1,1-Dichloropropene	563-58-6	0.17	U	0.17	5.3		1.17
06192	cis-1,3-Dichloropropene	10061-01-5	0.21	U	0.21	5.3		1.17
06192	trans-1,3-Dichloropropene	10061-02-6	0.22	U	0.22	5.3		1.17
06192	Ethylbenzene	100-41-4	0.08	U	0.08	5.3		1.17
06192	Freon 113	76-13-1	0.14	U	0.14	5.3		1.17
06192	Freon 133a	75-88-7	0.66	U	0.66	6.6		1.17
06192	Hexachlorobutadiene	87-68-3	0.18	U	0.18	5.3		1.17
06192	2-Hexanone	591-78-6	2.1	U	2.1	11		1.17
06192	Isopropylbenzene	98-82-8	0.08	U	0.08	5.3		1.17
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	5.3		1.17
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.28	U	0.28	5.3		1.17
06192	4-Methyl-2-pentanone	108-10-1	0.51	U	0.51	11		1.17
06192	Methylene Chloride	75-09-2	1.4	J	0.32	5.3		1.17
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	5.3		1.17

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Sample Description: SL-086-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182710
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE057-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.13	U	0.13	5.3		1.17
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	5.3		1.17
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.30	U	0.30	5.3		1.17
06192	Tetrachloroethene	127-18-4	0.26	U	0.26	5.3		1.17
06192	Toluene	108-88-3	0.11	U	0.11	5.3		1.17
06192	1,2,3-Trichlorobenzene	87-61-6	0.18	U	0.18	5.3		1.17
06192	1,2,4-Trichlorobenzene	120-82-1	0.24	U	0.24	5.3		1.17
06192	1,1,1-Trichloroethane	71-55-6	0.26	U	0.26	5.3		1.17
06192	1,1,2-Trichloroethane	79-00-5	0.35	U	0.35	5.3		1.17
06192	Trichloroethene	79-01-6	0.20	U	0.20	5.3		1.17
06192	Trichlorofluoromethane	75-69-4	0.38	U	0.38	5.3		1.17
06192	1,2,3-Trichloropropane	96-18-4	0.43	U	0.43	5.3		1.17
06192	1,2,4-Trimethylbenzene	95-63-6	0.53	U	0.53	5.3		1.17
06192	1,3,5-Trimethylbenzene	108-67-8	0.13	U	0.13	5.3		1.17
06192	Vinyl Chloride	75-01-4	0.26	U	0.26	5.3		1.17
06192	m+p-Xylene	179601-23-1	0.22	U	0.22	5.3		1.17
06192	o-Xylene	95-47-6	0.22	U	0.22	5.3		1.17

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.58
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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Sample Description: SL-086-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182710
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE057-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

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Sample Description: SL-086-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182710
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE057-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.53	22.0		1
07914	Boron	7440-42-8	0.979	U	0.979	5.50		1
01650	Calcium	7440-70-2	2,550		6.75	22.0		1
01654	Iron	7439-89-6	20,000		5.18	22.0		1
01656	Lithium	7439-93-2	17.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,480		2.79	11.0		1
06958	Manganese	7439-96-5	164		0.0858	0.550		1
10145	Phosphorus	7723-14-0	121		0.616	11.0		1
01662	Potassium	7440-09-7	1,400		19.8	55.0		1
01667	Sodium	7440-23-5	128		41.0	110		1
07968	Strontium	7440-24-6	22.8		0.0682	0.550		1
06969	Tin	7440-31-5	2.71	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,220		0.418	1.10		1
10146	Zirconium	7440-67-7	1.24	J	0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0682	J	0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.89		0.0855	0.428		2
06126	Barium	7440-39-3	86.4		0.115	0.428		2

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Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182710
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE057-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.522	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0428 U	0.0428	0.107		2
06131	Chromium	7440-47-3	16.9	0.128	0.428		2
06132	Cobalt	7440-48-4	2.98	0.0214	0.107		2
06133	Copper	7440-50-8	3.81	0.0705	0.428		2
06135	Lead	7439-92-1	4.23	0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.259	0.0534	0.107		2
06139	Nickel	7440-02-0	7.34	0.107	0.428		2
06141	Selenium	7782-49-2	0.0659 J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0482 J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.172	0.0321	0.107		2
06148	Vanadium	7440-62-2	34.1	0.0235	0.107		2
06149	Zinc	7440-66-6	39.0	0.599	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	429	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.10	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182710
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE057-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-086-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/14/2011 02:14	Laura M Krieger	1.17
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 14:26	Jason M Long	23.58
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:03	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 16:01	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 03:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/21/2011 01:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 02:10	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:22	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:54	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2

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Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182710
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
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E5709 SDG#: DE057-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/23/2011 19:37	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:54	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:37	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:54	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 01:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/20/2011 13:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11024243202A	01/25/2011 14:45	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101A	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-094-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182711
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5710 SDG#: DE057-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	0.53	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-094-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182711
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E5710 SDG#: DE057-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.78
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

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SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182711
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
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E5710 SDG#: DE057-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-094-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182711
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE057-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,200		5.69	22.6		1
07914	Boron	7440-42-8	1.50	J	1.01	5.66		1
01650	Calcium	7440-70-2	2,860		6.94	22.6		1
01654	Iron	7439-89-6	24,000		5.33	22.6		1
01656	Lithium	7439-93-2	28.3		0.25	2.3		1
01657	Magnesium	7439-95-4	4,860		2.88	11.3		1
06958	Manganese	7439-96-5	167		0.0883	0.566		1
10145	Phosphorus	7723-14-0	156		0.634	11.3		1
01662	Potassium	7440-09-7	1,350		20.4	56.6		1
01667	Sodium	7440-23-5	168		42.2	113		1
07968	Strontium	7440-24-6	26.1		0.0702	0.566		1
06969	Tin	7440-31-5	3.17	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,280		0.430	1.13		1
10146	Zirconium	7440-67-7	2.25	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0843	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.96		0.0880	0.440		2
06126	Barium	7440-39-3	93.6		0.119	0.440		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-094-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182711
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE057-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.924	0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0440 U	0.0440	0.110		2
06131	Chromium	7440-47-3	18.9	0.132	0.440		2
06132	Cobalt	7440-48-4	5.04	0.0220	0.110		2
06133	Copper	7440-50-8	6.84	0.0726	0.440		2
06135	Lead	7439-92-1	7.12	0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.573	0.0550	0.110		2
06139	Nickel	7440-02-0	10.5	0.110	0.440		2
06141	Selenium	7782-49-2	0.0666 J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0551 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.197	0.0330	0.110		2
06148	Vanadium	7440-62-2	41.0	0.0242	0.110		2
06149	Zinc	7440-66-6	46.3	0.616	3.30		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	356	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.72	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182711
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE057-10

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-094-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/14/2011 02:36	Laura M Krieger	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 14:46	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:07	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 16:04	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 03:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/21/2011 01:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 02:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:26	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 13:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182711
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE057-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 13:57	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 13:57	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:39	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 13:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201A	01/27/2011 01:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/20/2011 13:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 15:04	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201A	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-093-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182712
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE057-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		1.05
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.05
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.05
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.05
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.05
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.05
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.05
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		1.05
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.05
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1.05
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.05
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.05
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.05
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.05
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1.05
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.05
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.05
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.05
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.05
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.05
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.05
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.05
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.05
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.05
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.05
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.05
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.05
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.05
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1.05
06192	Methylene Chloride	75-09-2	0.67	J	0.28	4.6		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.05

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Sample Description: SL-093-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182712
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE057-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1.05
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.05
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.05
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.05
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.05
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.05
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1.05
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.05
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene, o-xylene, and tert-butylbenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.99
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1

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Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182712
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE057-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Sample Description: SL-093-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182712
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE057-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.53	22.0		1
07914	Boron	7440-42-8	0.978	U	0.978	5.49		1
01650	Calcium	7440-70-2	2,480		6.74	22.0		1
01654	Iron	7439-89-6	18,300		5.18	22.0		1
01656	Lithium	7439-93-2	21.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,800		2.79	11.0		1
06958	Manganese	7439-96-5	457		0.0857	0.549		1
10145	Phosphorus	7723-14-0	248		0.615	11.0		1
01662	Potassium	7440-09-7	2,060		19.8	54.9		1
01667	Sodium	7440-23-5	130		41.0	110		1
07968	Strontium	7440-24-6	17.2		0.0681	0.549		1
06969	Tin	7440-31-5	2.47	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,210		0.418	1.10		1
10146	Zirconium	7440-67-7	1.29	J	0.923	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0634	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.44		0.0845	0.423		2
06126	Barium	7440-39-3	81.5		0.114	0.423		2

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Sample Description: SL-093-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182712
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE057-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.564	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0423 U	0.0423	0.106		2
06131	Chromium	7440-47-3	14.9	0.127	0.423		2
06132	Cobalt	7440-48-4	7.76	0.0211	0.106		2
06133	Copper	7440-50-8	5.89	0.0697	0.423		2
06135	Lead	7439-92-1	4.34	0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.443	0.0528	0.106		2
06139	Nickel	7440-02-0	9.54	0.106	0.423		2
06141	Selenium	7782-49-2	0.0627 J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0127 U	0.0127	0.106		2
06145	Thallium	7440-28-0	0.367	0.0317	0.106		2
06148	Vanadium	7440-62-2	33.5	0.0232	0.106		2
06149	Zinc	7440-66-6	46.2	0.592	3.17		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	359	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182712
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E5711 SDG#: DE057-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-093-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110133AA	01/14/2011 02:59	Laura M Krieger	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 15:06	Jason M Long	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:11	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 16:14	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 16:08	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 04:18	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/21/2011 02:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 02:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:44	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-093-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182712
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE057-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:00	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:41	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201B	01/27/2011 03:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/26/2011 18:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11024243202A	01/25/2011 15:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201B	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

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Analysis Report

Sample Description: **TB-011111 Water**
SSFL Area IV Collocated Soil Sampling
TB-011111

LLI Sample # WW 6182713
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 08:00

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5712 SDG#: DE057-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-011111 Water**
SSFL Area IV Collocated Soil Sampling
TB-011111

LLI Sample # WW 6182713
LLI Group # 1228867
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 08:00

Submitted: 01/13/2011 09:20
Reported: 02/02/2011 10:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5712 SDG#: DE057-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110141AA	01/14/2011	15:00	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110131AA	01/13/2011	13:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110131AA	01/13/2011	13:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110141AA	01/14/2011	15:00	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11014A20A	01/14/2011	18:40	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11014A20A	01/14/2011	18:40	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110133AA	Sample number(s): 6182702-6182712									
Acetone	6.7	U	6.7	8.0	ug/kg	171	150	32-209	13	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	89	80-120	16	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94	80	79-120	17	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	106	93	79-124	13	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96	83	78-120	15	30
Bromoform	0.40	U	0.40	4.0	ug/kg	99	85	70-120	14	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	74	65	32-162	12	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	126	109	46-153	14	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93	78	72-120	17	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	94	77	75-120	20	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	89	74*	75-120	18	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	88	69-122	18	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	85	80-120	17	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	76	68	37-154	10	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	98	87	43-146	12	30
Chloroform	0.12	U	0.12	4.0	ug/kg	103	88	80-120	16	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	84	79	54-132	7	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	79	78-120	18	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96	80	79-120	18	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	126	126	22-131	0	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88	75	58-120	16	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	99	84	77-120	16	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	86	80-120	14	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103	90	80-120	14	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97	82	79-120	17	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	94	80	78-120	16	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	96	81	79-120	17	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	76	64	20-120	18	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103	89	80-120	15	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	87	71-129	15	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	103	88	73-123	16	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	106	91	80-120	16	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105	91	79-120	14	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	86	80-120	15	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	83	80-120	15	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	105	89	72-123	17	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	101	85	77-120	18	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91	77*	80-120	16	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	77	77-120	14	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	97	81	80-120	18	30
Freon 113	0.11	U	0.11	4.0	ug/kg	103	87	61-126	17	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	89	89	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91	76	57-120	18	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	84	72	45-155	16	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	96	79	76-120	20	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	94	78	75-120	19	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98	87	74-121	12	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	73	63	61-134	14	30
Methylene Chloride	0.51	J	0.24	4.0	ug/kg	97	85	76-124	14	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	96	80	77-120	18	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	83	76-120	17	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	102	86	80-120	17	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92	80	71-123	14	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	112	90	77-120	22	30
Toluene	0.24	J	0.08	4.0	ug/kg	102	85	80-120	18	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	91	78	64-120	16	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	74	68-120	16	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104	88	71-125	17	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	86	80-120	15	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	86	80-120	17	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	86	72	58-133	17	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	94	81	71-123	16	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	95	79	79-120	19	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	95	79	78-120	19	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	83	72	53-120	14	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101	85	80-120	17	30
o-Xylene	0.41	J	0.17	4.0	ug/kg	95	78*	80-120	20	30
Batch number: E110131AA	Sample number(s): 6182713									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	104	60-132	0	30
Batch number: E110141AA	Sample number(s): 6182702-6182712									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	102	105	70-130	3	30
Batch number: Y110141AA	Sample number(s): 6182713									
Acetone	6	U	6.	20	ug/l	157	140	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	97	99	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	100	101	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	105	101	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	104	103	80-120	1	30
Bromoform	1	U	1.	5	ug/l	98	96	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	103	102	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	124	115	66-151	7	30
n-Butylbenzene	1	U	1.	5	ug/l	96	95	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	99	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	106	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	104	103	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	109	108	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	108	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	110	110	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	97	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	78	76	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	102	96	66-120	6	30
Dibromochloromethane	1	U	1.	5	ug/l	99	99	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	102	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	110	109	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	103	79-120	3	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	116	113	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	95	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	103	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	108	108	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	102	102	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	96	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	99	101	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	106	106	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	97	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	113	109	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	101	100	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	106	106	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	97	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	101	97	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	99	80-120	0	30
Styrene	1	U	1.	5	ug/l	96	96	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	100	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	93	95	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	100	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	102	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	101	99	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	100	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	101	101	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	109	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	99	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	98	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	94	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	96	80-120	2	30
Batch number: 11015SLA026	Sample number(s): 6182702-6182712									
Aniline	170 U		170.	500	ug/kg	73		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	52		15-121		
Benzoic acid	170 U		170.	500	ug/kg	107		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		79-117		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	66		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	112		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	81		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	79		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		68-105		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	93		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	90		35-106		
Phenol	17	U	17.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11015SLD026	Sample number(s): 6182702-6182712									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	90		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	109		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	144*		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	121		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	96		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	88		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	113		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	92		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	89		78-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	92		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	76		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	106		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	87		56-121		
Batch number: 11018SLF026	Sample number(s): 6182702-6182709									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	97		70-130		
Batch number: 11014A20A	Sample number(s): 6182713									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11014A34A	Sample number(s): 6182702-6182709									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	75	74	67-119	1	30
Batch number: 110170011A	Sample number(s): 6182702-6182709									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	114		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	107	109	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	108	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	95		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	111		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	118		80-120		
RDX	50	U	50.	120	ug/kg	117		75-131		
Tetryl	61	U	61.	120	ug/kg	117		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	120		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	113		80-120		
Batch number: 110170009A	Sample number(s): 6182702-6182709									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	100		80-126		
Batch number: 110170022A	Sample number(s): 6182706									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	102		70-130		
Batch number: 110170028A	Sample number(s): 6182702-6182712									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70*	66*	75-125	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	114		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110180024A	Sample number(s): 6182702-6182709									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	111		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	92		66-113		
Batch number: 110140015A	Sample number(s): 6182702-6182709									
Diethylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	88		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 110190019A	Sample number(s): 6182702-6182709									
Ethanol	100	U	100.	500	ug/kg	86		75-112		
Isopropanol	100	U	100.	500	ug/kg	88		75-125		
Methanol	100	U	100.	500	ug/kg	86		75-134		
Batch number: 110190008A	Sample number(s): 6182702-6182709									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
Batch number: 110171026001A	Sample number(s): 6182702-6182712									
Antimony	0.0594	U	0.0594	0.198	mg/kg	113		11-208		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	97		80-120		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	99		82-118		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	98		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	99		80-120		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	99		82-118		
Copper	0.107	J	0.0653	0.396	mg/kg	97		80-120		
Lead	0.0103	U	0.0103	0.198	mg/kg	97		80-120		
Nickel	0.0990	U	0.0990	0.396	mg/kg	101		80-120		
Silver	0.0119	U	0.0119	0.0990	mg/kg	99		66-134		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	102		81-119		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	98		90-110		
Zinc	0.554	U	0.554	2.97	mg/kg	99		78-122		
Batch number: 110171026001B	Sample number(s): 6182702-6182712									
Selenium	0.0396	U	0.0396	0.396	mg/kg	98		79-122		
Batch number: 110171026001C	Sample number(s): 6182702-6182712									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	100		78-122		
Batch number: 110171026001D	Sample number(s): 6182702-6182712									
Barium	0.107	U	0.107	0.396	mg/kg	97		79-121		
Batch number: 110175708001	Sample number(s): 6182702-6182712									
Aluminum	5.03	U	5.03	20.0	mg/kg	97		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	89		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	10.2	J	6.13	20.0	mg/kg	96		88-110		
Iron	4.79	J	4.71	20.0	mg/kg	96		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	1.38	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.18	J	1.00	10.0	mg/kg	95		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	99		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110175711001	Sample number(s): 6182702-6182712									
Mercury	0.0028	U	0.0028	0.0991	mg/kg	96		88-123		
Batch number: 11019621201A	Sample number(s): 6182702-6182708									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11019621202A	Sample number(s): 6182709-6182712									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	92		85-115		
Batch number: 11021102201A	Sample number(s): 6182702-6182709									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	110		80-120		
Batch number: 11024243202A	Sample number(s): 6182702-6182712									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11025025201A	Sample number(s): 6182702-6182711									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	106		90-110		
Batch number: 11025025201B	Sample number(s): 6182712									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11018039401A	Sample number(s): 6182702-6182712									
22a pH by 9045C						100		95-105		
Batch number: 11018182101A	Sample number(s): 6182702-6182710									
Oxidation Reduction Potential						99		98-102		
Batch number: 11018182101B	Sample number(s): 6182711-6182712									
Oxidation Reduction Potential						99		98-102		
Batch number: 11018162401B	Sample number(s): 6182710-6182712									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11026162401A	Sample number(s): 6182702-6182709									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110133AA	Sample number(s): 6182702-6182712 UNSPK: 6182702								
Acetone	145		15-210						
Benzene	113		55-143						
Bromobenzene	102		43-139						
Bromochloromethane	114		60-137						
Bromodichloromethane	103		53-136						
Bromoform	102		38-124						
Bromomethane	85		42-168						
2-Butanone	102		37-163						
n-Butylbenzene	103		30-146						
sec-Butylbenzene	103		33-157						
tert-Butylbenzene	100		41-152						
Carbon Tetrachloride	121		45-153						
Chlorobenzene	111		49-135						
Chloroethane	90		39-152						
2-Chloroethyl Vinyl Ether	76		32-139						
Chloroform	112		61-142						
Chloromethane	93		51-163						
2-Chlorotoluene	104		42-146						
4-Chlorotoluene	104		39-145						
1,2-Dibromo-3-chloropropane	73		30-139						
Dibromochloromethane	106		51-128						
1,2-Dibromoethane	102		54-129						
Dibromomethane	104		57-130						
1,2-Dichlorobenzene	103		36-133						
1,3-Dichlorobenzene	102		34-134						
1,4-Dichlorobenzene	103		35-136						
Dichlorodifluoromethane	91		26-151						
1,1-Dichloroethane	111		63-142						
1,2-Dichloroethane	103		68-131						
1,1-Dichloroethene	121		61-149						
cis-1,2-Dichloroethene	112		60-136						
trans-1,2-Dichloroethene	118		59-142						
1,2-Dichloropropane	104		62-135						
1,3-Dichloropropane	98		58-129						
2,2-Dichloropropane	113		53-147						
1,1-Dichloropropene	111		54-145						
cis-1,3-Dichloropropene	88		51-131						
trans-1,3-Dichloropropene	88		49-129						
Ethylbenzene	108		44-141						
Freon 113	120		56-156						
Hexachlorobutadiene	93		10-155						
2-Hexanone	64		32-160						
Isopropylbenzene	105		38-144						
p-Isopropyltoluene	102		29-152						
Methyl Tertiary Butyl Ether	91		55-129						
4-Methyl-2-pentanone	60		46-139						
Methylene Chloride	99		61-141						
n-Propylbenzene	107		39-157						
Styrene	108		35-134						
1,1,1,2-Tetrachloroethane	113		52-130						
1,1,2,2-Tetrachloroethane	90		40-152						
Tetrachloroethene	122		42-149						
Toluene	114		50-146						
1,2,3-Trichlorobenzene	86		10-140						
1,2,4-Trichlorobenzene	79		10-136						
1,1,1-Trichloroethane	117		64-142						

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Reported: 02/02/11 at 10:45 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2-Trichloroethane	105		54-139						
Trichloroethene	109		53-144						
Trichlorofluoromethane	103		47-163						
1,2,3-Trichloropropane	92		45-154						
1,2,4-Trimethylbenzene	102		37-149						
1,3,5-Trimethylbenzene	103		38-150						
Vinyl Chloride	94		50-154						
m+p-Xylene	113		44-137						
o-Xylene	99		42-137						
Batch number: E110141AA	Sample number(s): 6182702-6182712 UNSPK: P182836								
1,4-Dioxane	93	93	70-130	12	30				
Batch number: 11015SLA026	Sample number(s): 6182702-6182712 UNSPK: P182836								
Aniline	80	80	14-114	1	30				
Benzidine	46	35	35-141	27	30				
Benzoic acid	76	83	10-173	10	30				
Benzyl alcohol	97	97	55-123	0	30				
4-Bromophenyl-phenylether	96	89	67-129	7	30				
Carbazole	98	93	64-120	6	30				
4-Chloro-3-methylphenol	96	93	53-130	3	30				
4-Chloroaniline	58	52	23-95	11	30				
bis(2-Chloroethoxy)methane	93	89	54-117	4	30				
bis(2-Chloroethyl)ether	90	92	60-116	3	30				
bis(2-Chloroisopropyl)ether	88	89	55-142	2	30				
2-Chloronaphthalene	78	78	50-141	0	30				
2-Chlorophenol	97	95	73-121	3	30				
4-Chlorophenyl-phenylether	93	91	64-119	2	30				
Dibenzofuran	97	94	71-112	3	30				
1,2-Dichlorobenzene	82	88	66-108	8	30				
1,3-Dichlorobenzene	79	86	63-109	7	30				
1,4-Dichlorobenzene	79	86	53-113	9	30				
3,3'-Dichlorobenzidine	72	77	25-123	7	30				
2,4-Dichlorophenol	98	94	78-117	5	30				
2,4-Dimethylphenol	97	93	56-130	4	30				
3,5-Dimethylphenol	109	105	70-130	4	30				
4,6-Dinitro-2-methylphenol	84	80	10-148	5	30				
2,4-Dinitrophenol	77	75	20-143	2	30				
2,4-Dinitrotoluene	95	90	57-114	5	30				
2,6-Dinitrotoluene	93	93	69-123	0	30				
1,2-Diphenylhydrazine	101	97	71-129	3	30				
bis(2-Ethylhexyl)phthalate	97	93	63-122	4	30				
Hexachlorobenzene	95	94	61-111	1	30				
Hexachlorobutadiene	85	86	62-120	1	30				
Hexachlorocyclopentadiene	70	67	10-153	4	30				
Hexachloroethane	74	81	57-109	9	30				
Isophorone	93	89	51-118	4	30				
2-Methylphenol	100	99	47-142	2	30				
4-Methylphenol	96	93	55-126	3	30				
2-Nitroaniline	95	93	67-125	2	30				
3-Nitroaniline	94	90	59-122	5	30				
4-Nitroaniline	77	74	52-112	3	30				
Nitrobenzene	91	89	51-114	2	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitrophenol	91	90	74-115	2	30				
4-Nitrophenol	81	76	39-133	6	30				
N-Nitroso-di-n-propylamine	92	90	60-116	3	30				
N-Nitrosodiphenylamine	98	95	86-145	3	30				
Pentachlorophenol	86	87	17-149	1	30				
Phenol	99	97	58-126	2	30				
1,2,4-Trichlorobenzene	91	91	72-115	0	30				
2,4,5-Trichlorophenol	97	94	34-139	3	30				
2,4,6-Trichlorophenol	99	94	49-140	6	30				
Batch number: 11015SLD026	Sample number(s): 6182702-6182712 UNSPK: P182836								
Acenaphthene	89	90	63-105	1	30				
Acenaphthylene	92	93	55-126	2	30				
Anthracene	92	94	46-136	2	30				
Benzo(a)anthracene	92	98	39-144	7	30				
Benzo(a)pyrene	112	117	34-156	5	30				
Benzo(b)fluoranthene	108	130	43-155	19	30				
Benzo(g,h,i)perylene	117	78	33-141	40*	30				
Benzo(k)fluoranthene	128	118	42-144	8	30				
Butylbenzylphthalate	109	109	73-140	0	30				
Di-n-butylphthalate	108	112	78-160	3	30				
Chrysene	97	94	29-156	3	30				
Dibenz(a,h)anthracene	126	86	41-130	38*	30				
Diethylphthalate	102	107	87-131	4	30				
Dimethylphthalate	106	114	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	113	121	39-167	7	30				
Fluoranthene	98	98	26-166	1	30				
Fluorene	96	96	45-121	0	30				
Indeno(1,2,3-cd)pyrene	122	83	21-143	38*	30				
1-Methylnaphthalene	95	94	72-123	1	30				
2-Methylnaphthalene	88	87	28-121	1	30				
Naphthalene	91	92	61-102	1	30				
N-Nitrosodimethylamine	107	99	48-113	8	30				
Di-n-octylphthalate	116	119	40-192	3	30				
Phenanthrene	92	91	12-165	0	30				
Pyrene	88	86	15-153	2	30				
Batch number: 11018SLF026	Sample number(s): 6182702-6182709 UNSPK: P182855								
N-Nitrosodimethylamine	73	79	70-130	8	30				
Batch number: 11014A34A	Sample number(s): 6182702-6182709 UNSPK: P182855								
9a TPH by EPA 8015B Gas C5-C12	62	60	39-118	4	30				
Batch number: 110170011A	Sample number(s): 6182702-6182709 UNSPK: P182855								
4-Amino-2,6-Dinitrotoluene	108	102	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	108	103	80-137	5	50				
1,3-Dinitrobenzene	108	103	38-166	5	50				
2,4-Dinitrotoluene	106	101	80-131	5	50				
2,6-Dinitrotoluene	109	104	80-127	4	50				
HMX	97	89	63-128	8	50				
Nitrobenzene	106	101	80-125	6	50				
Nitroglycerin	96	90	80-120	7	50				
2-Nitrotoluene	107	102	80-122	5	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3-Nitrotoluene	107	103	72-119	4	50				
4-Nitrotoluene	106	101	80-125	4	50				
PETN	114	106	80-121	7	50				
RDX	106	101	75-129	5	50				
Tetryl	100	106	55-174	6	50				
1,3,5-Trinitrobenzene	112	108	82-126	4	50				
2,4,6-Trinitrotoluene	107	102	82-130	5	50				
Batch number: 110170009A	Sample number(s): 6182702-6182709 UNSPK: P182855								
17a Formaldehyde by 8315A	94	95	80-120	1	50				
Batch number: 110170022A	Sample number(s): 6182706 UNSPK: P182836								
6a Perchlorate EPA 6850	102	104	80-120	2	20				
Batch number: 110170028A	Sample number(s): 6182702-6182712 UNSPK: P182836								
PCB-1016	83	84	29-146	1	50				
PCB-1260	128	116	39-149	9	50				
Batch number: 110180024A	Sample number(s): 6182702-6182709 UNSPK: P182855								
EFH (C12-C14)	89	99	49-123	10	20				
EFH (C15-C20)	78	64	49-123	12	20				
EFH (C21-C30)	88	-114*	49-123	68*	20				
EFH (C30 - C40)	-35 (2)	-441 (2)	49-123	72*	20				
EFH (C8-C11)	65	71	49-123	9	20				
Batch number: 110140015A	Sample number(s): 6182702-6182709 UNSPK: P182855								
Diethylene glycol	45*	74	59-109	48*	20				
Ethylene glycol	64	56*	63-107	13	20				
Propylene glycol	64	56*	63-107	13	20				
Batch number: 110190019A	Sample number(s): 6182702-6182709 UNSPK: P182855								
Ethanol	78	65	24-143	18	20				
Isopropanol	82	73*	75-125	12	20				
Methanol	75	58	45-136	26*	20				
Batch number: 110190008A	Sample number(s): 6182702-6182709 UNSPK: P182855								
m-Terphenyl	86	88	75-125	3	20				
o-Terphenyl	88	89	75-125	1	20				
p-Terphenyl	76	78	75-125	2	20				
Batch number: 110171026001A	Sample number(s): 6182702-6182712 UNSPK: 6182702 BKG: 6182702								
Antimony	37*	24*	75-125	25*	20	0.211	0.149 J	35* (1)	20
Arsenic	85	95	75-125	3	20	5.50	5.29	4	20
Beryllium	73*	90	75-125	12	20	0.641	0.647	1	20
Cadmium	85	97	75-125	17	20	0.0423 J	0.0476 J	12 (1)	20
Chromium	93	145*	75-125	18	20	18.8	20.2	7	20
Cobalt	81	94	75-125	16	20	3.46	3.77	9	20
Copper	74*	91	75-125	16	20	4.28	4.45	4	20
Lead	110	120	75-125	5	20	5.72	5.51	4	20
Nickel	82	111	75-125	17	20	9.62	9.94	3	20
Silver	97	100	75-125	6	20	0.0373 J	0.0303 J	21* (1)	20
Thallium	78	102	75-125	20	20	0.186	0.166	12 (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vanadium	80	127*	75-125	10	20	37.5	36.9	2	20
Zinc	81	139*	75-125	13	20	36.3	40.6	11	20
Batch number: 110171026001B	Sample number(s): 6182702-6182712 UNSPK: 6182702 BKG: 6182702								
Selenium	79	84	75-125	9	20	0.123 J	0.0720 J	52* (1)	20
Batch number: 110171026001C	Sample number(s): 6182702-6182712 UNSPK: 6182702 BKG: 6182702								
Molybdenum	88	93	75-125	9	20	0.364	0.320	13 (1)	20
Batch number: 110171026001D	Sample number(s): 6182702-6182712 UNSPK: 6182702 BKG: 6182702								
Barium	59 (2)	150 (2)	75-125	13	20	62.6	81.7	27*	20
Batch number: 110175708001	Sample number(s): 6182702-6182712 UNSPK: 6182702 BKG: 6182702								
Aluminum	3461 (2)	4951 (2)	75-125	11	20	18,700	20,000	7	20
Boron	92	98	84-115	8	20	0.995 J	0.906 J	9 (1)	20
Calcium	140 (2)	253 (2)	75-125	12	20	2,920	3,200	9	20
Iron	491 (2)	1522 (2)	75-125	4	20	24,700	25,200	2	20
Lithium	100	113	82-114	11	20	30.1	31.0	3	20
Magnesium	-65 (2)	276 (2)	75-125	13	20	5,010	5,440	8	20
Manganese	-99 (2)	17 (2)	75-125	24*	20	256	259	1	20
Phosphorus	-47*	-24*	75-125	10	20	254	237	7	20
Potassium	85	118	75-125	14	20	1,490	1,700	13	20
Sodium	97	108	75-125	10	20	152	164	8 (1)	20
Strontium	101	107	75-115	6	20	21.7	23.3	7	20
Tin	83	89	80-110	9	20	2.55 J	2.46 J	3 (1)	20
Titanium	284 (2)	378 (2)	75-125	7	20	1,100	1,220	11	20
Zirconium	94	103	75-125	10	20	1.02 J	1.87 J	59* (1)	20
Batch number: 110175711001	Sample number(s): 6182702-6182712 UNSPK: 6182702 BKG: 6182702								
Mercury	86	79	65-135	8	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11019621201A	Sample number(s): 6182702-6182708 UNSPK: P180108 BKG: P180108								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11019621202A	Sample number(s): 6182709-6182712 UNSPK: P182836 BKG: P182836								
7a Perchlorate EPA 314.0	88		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11021102201A	Sample number(s): 6182702-6182709 UNSPK: 6182702 BKG: 6182702								
21a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11024243202A	Sample number(s): 6182702-6182712 UNSPK: P182836 BKG: P182836								
3a Cr VI by EPA 7199	97		75-125			0.29 J	0.43 J	39* (1)	20
Batch number: 11025025201A	Sample number(s): 6182702-6182711 UNSPK: 6182702 BKG: 6182702								
11a Anions by 300.0 - Fluoride	80		80-120			1.6	1.4	11 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			1.1 J	1.2 J	5 (1)	20
Batch number: 11025025201B	Sample number(s): 6182712 UNSPK: P182836 BKG: P182836								
11a Anions by 300.0 - Fluoride	69*		80-120			4.1	4.3	5 (1)	20
Batch number: 11018039401A	Sample number(s): 6182702-6182712 BKG: P182836								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
22a pH by 9045C						8.15	8.17	0	1
Batch number: 11018182101A	Sample number(s): 6182702-6182710					BKG: 6182702			
Oxidation Reduction Potential						386	386	0	6
Batch number: 11018182101B	Sample number(s): 6182711-6182712					BKG: P182836			
Oxidation Reduction Potential						366	366	0	6
Batch number: 11018162401B	Sample number(s): 6182710-6182712					BKG: 6182711			
28a Moisture Content by 160.3						13.4	13.8	3	20
Batch number: 11026162401A	Sample number(s): 6182702-6182709					BKG: 6182709			
28a Moisture Content by 160.3						12.2	12.3	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110133AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6182702	108	106	95	86
6182703	110	109	94	88
6182704	110	107	95	87
6182705	110	106	96	86
6182706	109	103	96	84
6182707	109	105	97	85
6182708	111	107	94	86
6182709	111	109	94	86
6182710	111	107	94	87
6182711	112	109	95	87
6182712	113	108	94	87
Blank	108	106	95	87
LCS	102	105	100	99
LCSD	102	106	99	100
MS	102	101	103	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110131AA

	Toluene-d8
6182713	102
Blank	101
LCS	101
LCSD	101

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Surrogate Quality Control

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110141AA

	Toluene-d8
6182702	98
6182703	99
6182704	99
6182705	100
6182706	99
6182707	99
6182708	99
6182709	99
6182710	100
6182711	99
6182712	100
Blank	101
LCS	100
LCSD	100
MS	99
MSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110141AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6182713	105	100	99	99
Blank	104	98	99	100
LCS	106	102	100	102
LCSD	106	105	100	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11015SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6182702	89	88	87	84	89	83
6182703	83	82	85	79	87	81
6182704	91	89	89	86	90	84
6182705	94	94	90	86	92	85
6182706	91	90	69	84	90	81
6182707	88	88	82	83	88	81
6182708	88	87	81	83	89	82
6182709	86	86	83	85	87	92
6182710	90	91	89	86	93	86
6182711	92	91	84	84	91	88
6182712	89	89	85	85	92	122
Blank	89	89	92	87	91	85
LCS	97	95	98	92	95	90
MS	97	93	93	89	93	88
MSD	95	92	89	86	92	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11015SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6182702	93	87	88
6182703	86	103	87
6182704	93	86	115
6182705	98	87	81
6182706	91	91	107
6182707	100	91	90
6182708	97	93	83
6182709	95	82	89
6182710	90	92	89
6182711	91	85	87
6182712	95	87	90
Blank	104	89	106
LCS	85	88	86
MS	99	87	92
MSD	111	94	88
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11018SLF026

	N-Nitrosodimethylamine-d6
6182702	129
6182703	132
6182704	113
6182705	137
6182706	141
6182707	118
6182708	134
6182709	126
Blank	122
LCS	116
MS	142
MSD	128
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11014A20A

	Trifluorotoluene-F
6182713	95
Blank	95
LCS	129
LCSD	123
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11014A34A

	Trifluorotoluene-F

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Surrogate Quality Control

6182702	74
6182703	72
6182704	74
6182705	77
6182706	77
6182707	75
6182708	79
6182709	75
Blank	82
LCS	87
LCSD	87
MS	75
MSD	76

Limits: 61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110170009A

Butyraldehyde

6182702	92
6182703	89
6182704	90
6182705	85
6182706	92
6182707	91
6182708	94
6182709	86
Blank	98
LCS	97
MS	95
MSD	97

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110170011A

2-Nitro-m-xylene

6182702	118
6182703	115
6182704	116
6182705	122
6182706	121
6182707	114
6182708	105
6182709	115
Blank	118
LCS	122
LCSD	108
MS	122
MSD	111

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110170028A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6182702	94	120
6182703	89	114
6182704	94	127*
6182705	81	114
6182706	96	141*
6182707	107	142*
6182708	76	114
6182709	88	115
6182710	102	133*
6182711	86	120
6182712	91	128*
Blank	89	114
LCS	93	118
LCSD	85	114
MS	90	130*
MSD	86	93
Limits:	53-139	45-120

Analysis Name: 27a Glycols by 8015B
Batch number: 110140015A

	Tetramethylene glycol
6182702	92
6182703	92
6182704	74
6182705	67
6182706	46
6182707	49
6182708	56
6182709	50
Blank	95
LCS	96
MS	83
MSD	69
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110180024A

	Chlorobenzene	Orthoterphenyl
6182702	95	100
6182703	88	97
6182704	93	99
6182705	90	101
6182706	85	98
6182707	81	93
6182708	88	103
6182709	85	96
Blank	100	107
LCS	107	108
MS	100	101
MSD	99	101

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228867
Reported: 02/02/11 at 10:45 AM

Surrogate Quality Control

Limits: 37-125 47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110190008A

	n-Triacontane-d62
6182702	95
6182703	99
6182704	102
6182705	99
6182706	92
6182707	83
6182708	91
6182709	99
Blank	102
LCS	100
MS	91
MSD	94

Limits: 50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110190019A

	Acetone
6182702	82
6182703	82
6182704	86
6182705	87
6182706	81
6182707	86
6182708	86
6182709	81
Blank	90
LCS	90
MS	86
MSD	75

Limits: 42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1228867 sample#6182702-13

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: *VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-099-SA5B-SB-4.0-5.0	01.11.11	1026	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-099-SA5B-SB-4.5	01.11.11	1022	SOIL	NONE	5 ENCORES											X	X	X											
SL-100-SA5B-SB-4.0-5.0	01.11.11	0922	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-100-SA5B-SB-4.5	01.11.11	0918	SOIL	NONE	5 ENCORES											X	X	X											
SL-087-SA5B-SB-3.0-4.0	01.11.11	0908	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-087-SA5B-SB-3.5	01.11.11	0904	SOIL	NONE	5 ENCORES											X	X	X											
SL-085-SA5B-SB-3.0-4.0	01.11.11	1135	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-085-SA5B-SB-3.5	01.11.11	1130	SOIL	NONE	5 ENCORES											X	X	X											
SL-088-SA5B-SB-3.0-4.0	01.11.11	1028	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-088-SA5B-SB-3.5	01.11.11	1024	SOIL	NONE	5 ENCORES											X	X	X											
SL-089-SA5B-SB-4.0-5.0	01.11.11	1404	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-089-SA5B-SB-4.5	01.11.11	1400	SOIL	NONE	5 ENCORES											X	X	X											
SL-090-SA5B-SB-2.5-3.5	01.11.11	1305	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-090-SA5B-SB-3.0	01.11.11	1300	SOIL	NONE	5 ENCORES											X	X	X											
SL-091-SA5B-SB-4.0-5.0	01.11.11	1515	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-091-SA5B-SB-4.5	01.11.11	1511	SOIL	NONE	5 ENCORES											X	X	X											
SL-086-SA5B-SB-4.0-5.0	01.11.11	1600	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-086-SA5B-SB-4.5	01.11.11	1555	SOIL	NONE	4 ENCORES											X	X												
SL-094-SA5B-SB-4.0-5.0	01.11.11	1628	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-094-SA5B-SB-4.5	01.11.11	1624	SOIL	NONE	4 ENCORES											X	X												
SL-093-SA5B-SB-3.0-4.0	01.11.11	1526	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-093-SA5B-SB-3.5	01.11.11	1522	SOIL	NONE	4 ENCORES											X	X												
TB-011111	01.11.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		
	1/11/2011, 16:30		0120	1/13/11
Received by: (Signature)	Date/Time	Airbill No.(s)		
		8695 1432 2876, ...2867		

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/13/2011
Group Number: 1228868
SDG: DX038
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-099-SA5B-SB-4.0-5.0 Soil	6182714
SL-100-SA5B-SB-4.0-5.0 Soil	6182715
SL-087-SA5B-SB-3.0-4.0 Soil	6182716
SL-085-SA5B-SB-3.0-4.0 Soil	6182717
SL-088-SA5B-SB-3.0-4.0 Soil	6182718
SL-089-SA5B-SB-4.0-5.0 Soil	6182719
SL-090-SA5B-SB-2.5-3.5 Soil	6182720
SL-091-SA5B-SB-4.0-5.0 Soil	6182721
SL-086-SA5B-SB-4.0-5.0 Soil	6182722
SL-094-SA5B-SB-4.0-5.0 Soil	6182723
SL-093-SA5B-SB-3.0-4.0 Soil	6182724

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182714
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX038-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182714
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX038-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0427	U	0.0427	1.15	1
11031	12378-PeCDD	40321-76-4	0.0419	U	0.0419	5.73	1
11031	123478-HxCDD	39227-28-6	0.0341	U	0.0341	5.73	1
11031	123678-HxCDD	57653-85-7	0.0338	U	0.0338	5.73	1
11031	123789-HxCDD	19408-74-3	0.0324	U	0.0324	5.73	1
11031	1234678-HpCDD	35822-46-9	0.253	JB	0.0465	5.73	1
11031	OCDD	3268-87-9	1.35	JB	0.0450	11.5	1
11031	2378-TCDF	51207-31-9	0.0490	U	0.0490	1.15	1
11031	12378-PeCDF	57117-41-6	0.0233	JQ	0.0228	5.73	1
11031	23478-PeCDF	57117-31-4	0.0737	JQ	0.0233	5.73	1
11031	123478-HxCDF	70648-26-9	0.0828	JB	0.0310	5.73	1
11031	123678-HxCDF	57117-44-9	0.0563	JBQ	0.0244	5.73	1
11031	123789-HxCDF	72918-21-9	0.0269	U	0.0269	5.73	1
11031	234678-HxCDF	60851-34-5	0.0541	JBQ	0.0234	5.73	1
11031	1234678-HpCDF	67562-39-4	0.284	JBQ	0.0257	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0511	JBQ	0.0344	5.73	1
11031	OCDF	39001-02-0	0.266	JBQ	0.0719	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182714
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX038-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182714
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX038-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 00:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182715
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX038-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182715
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX038-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0367	JQ	0.0350	1.10	1
11031	12378-PeCDD	40321-76-4	0.0336	U	0.0336	5.48	1
11031	123478-HxCDD	39227-28-6	0.0355	U	0.0355	5.48	1
11031	123678-HxCDD	57653-85-7	0.103	J	0.0349	5.48	1
11031	123789-HxCDD	19408-74-3	0.0675	J	0.0337	5.48	1
11031	1234678-HpCDD	35822-46-9	1.06	JB	0.0568	5.48	1
11031	OCDD	3268-87-9	6.10	JB	0.0276	11.0	1
11031	2378-TCDF	51207-31-9	0.0334	JQ	0.0329	1.10	1
11031	12378-PeCDF	57117-41-6	0.0295	JQ	0.0190	5.48	1
11031	23478-PeCDF	57117-31-4	0.0513	JQ	0.0185	5.48	1
11031	123478-HxCDF	70648-26-9	0.0561	JBQ	0.0288	5.48	1
11031	123678-HxCDF	57117-44-9	0.0717	JBQ	0.0227	5.48	1
11031	123789-HxCDF	72918-21-9	0.0342	JBQ	0.0252	5.48	1
11031	234678-HxCDF	60851-34-5	0.0839	JBQ	0.0218	5.48	1
11031	1234678-HpCDF	67562-39-4	0.382	JB	0.0203	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0597	JBQ	0.0261	5.48	1
11031	OCDF	39001-02-0	0.316	JB	0.0559	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182715
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX038-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182715
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX038-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 01:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182716
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX038-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182716
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX038-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0388	U	0.0388	1.08	1
11031	12378-PeCDD	40321-76-4	0.0377	U	0.0377	5.38	1
11031	123478-HxCDD	39227-28-6	0.0244	U	0.0244	5.38	1
11031	123678-HxCDD	57653-85-7	0.0390	JQ	0.0250	5.38	1
11031	123789-HxCDD	19408-74-3	0.0239	U	0.0239	5.38	1
11031	1234678-HpCDD	35822-46-9	0.335	JBQ	0.0423	5.38	1
11031	OCDD	3268-87-9	1.10	JB	0.0340	10.8	1
11031	2378-TCDF	51207-31-9	0.0378	U	0.0378	1.08	1
11031	12378-PeCDF	57117-41-6	0.0396	JQ	0.0186	5.38	1
11031	23478-PeCDF	57117-31-4	0.0969	J	0.0178	5.38	1
11031	123478-HxCDF	70648-26-9	0.0494	JB	0.0214	5.38	1
11031	123678-HxCDF	57117-44-9	0.0478	JB	0.0168	5.38	1
11031	123789-HxCDF	72918-21-9	0.0358	JB	0.0185	5.38	1
11031	234678-HxCDF	60851-34-5	0.0917	JBQ	0.0173	5.38	1
11031	1234678-HpCDF	67562-39-4	0.383	JB	0.0197	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0389	JBQ	0.0240	5.38	1
11031	OCDF	39001-02-0	0.332	JBQ	0.0538	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182716
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX038-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182716
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX038-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 02:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182717
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX038-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-085-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182717
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX038-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0494	U	0.0494	1.08	1
11031	12378-PeCDD	40321-76-4	0.0483	U	0.0483	5.42	1
11031	123478-HxCDD	39227-28-6	0.0421	JQ	0.0353	5.42	1
11031	123678-HxCDD	57653-85-7	0.0511	JQ	0.0355	5.42	1
11031	123789-HxCDD	19408-74-3	0.0533	JQ	0.0343	5.42	1
11031	1234678-HpCDD	35822-46-9	0.299	JB	0.0519	5.42	1
11031	OCDD	3268-87-9	1.00	JB	0.0431	10.8	1
11031	2378-TCDF	51207-31-9	0.0522	U	0.0522	1.08	1
11031	12378-PeCDF	57117-41-6	0.0257	U	0.0257	5.42	1
11031	23478-PeCDF	57117-31-4	0.0604	JQ	0.0260	5.42	1
11031	123478-HxCDF	70648-26-9	0.0313	U	0.0313	5.42	1
11031	123678-HxCDF	57117-44-9	0.0814	JB	0.0251	5.42	1
11031	123789-HxCDF	72918-21-9	0.0607	JB	0.0290	5.42	1
11031	234678-HxCDF	60851-34-5	0.125	JBQ	0.0254	5.42	1
11031	1234678-HpCDF	67562-39-4	0.337	JB	0.0349	5.42	1
11031	1234789-HpCDF	55673-89-7	0.127	JB	0.0484	5.42	1
11031	OCDF	39001-02-0	0.383	JBQ	0.0694	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182717
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX038-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182717
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX038-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 06:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182718
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX038-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182718
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX038-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0450	U	0.0450	1.12	1
11031	12378-PeCDD	40321-76-4	0.222	JQ	0.0538	5.58	1
11031	123478-HxCDD	39227-28-6	0.268	J	0.0666	5.58	1
11031	123678-HxCDD	57653-85-7	2.41	J	0.0658	5.58	1
11031	123789-HxCDD	19408-74-3	1.14	J	0.0629	5.58	1
11031	1234678-HpCDD	35822-46-9	22.2	B	0.0743	5.58	1
11031	OCDD	3268-87-9	204	B	0.0711	11.2	1
11031	2378-TCDF	51207-31-9	0.0924	J	0.0840	1.12	1
11031	12378-PeCDF	57117-41-6	0.577	J	0.0377	5.58	1
11031	23478-PeCDF	57117-31-4	0.470	J	0.0363	5.58	1
11031	123478-HxCDF	70648-26-9	0.556	JB	0.0491	5.58	1
11031	123678-HxCDF	57117-44-9	0.391	JB	0.0431	5.58	1
11031	123789-HxCDF	72918-21-9	0.210	JBQ	0.0460	5.58	1
11031	234678-HxCDF	60851-34-5	0.347	JBQ	0.0417	5.58	1
11031	1234678-HpCDF	67562-39-4	3.16	JB	0.0509	5.58	1
11031	1234789-HpCDF	55673-89-7	0.354	JB	0.0606	5.58	1
11031	OCDF	39001-02-0	6.13	JB	0.0662	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182718
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX038-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182718
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX038-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 07:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182719
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX038-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182719
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX038-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0354	U	0.0354	1.15	1
11031	12378-PeCDD	40321-76-4	0.0331	U	0.0331	5.75	1
11031	123478-HxCDD	39227-28-6	0.0290	U	0.0290	5.75	1
11031	123678-HxCDD	57653-85-7	0.0302	U	0.0302	5.75	1
11031	123789-HxCDD	19408-74-3	0.0456	JQ	0.0278	5.75	1
11031	1234678-HpCDD	35822-46-9	0.309	JB	0.0500	5.75	1
11031	OCDD	3268-87-9	1.40	JB	0.0608	11.5	1
11031	2378-TCDF	51207-31-9	0.0432	U	0.0432	1.15	1
11031	12378-PeCDF	57117-41-6	0.0210	U	0.0210	5.75	1
11031	23478-PeCDF	57117-31-4	0.0793	JQ	0.0209	5.75	1
11031	123478-HxCDF	70648-26-9	0.0719	JB	0.0239	5.75	1
11031	123678-HxCDF	57117-44-9	0.0520	JBQ	0.0202	5.75	1
11031	123789-HxCDF	72918-21-9	0.0434	JB	0.0222	5.75	1
11031	234678-HxCDF	60851-34-5	0.0928	JBQ	0.0198	5.75	1
11031	1234678-HpCDF	67562-39-4	0.319	JBQ	0.0244	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0446	JB	0.0309	5.75	1
11031	OCDF	39001-02-0	0.349	JB	0.0610	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182719
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX038-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182719
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX038-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 08:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182720
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX038-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182720
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX038-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0349	JQ	0.0349	1.09	1
11031	12378-PeCDD	40321-76-4	0.0298	U	0.0298	5.46	1
11031	123478-HxCDD	39227-28-6	0.0304	JQ	0.0275	5.46	1
11031	123678-HxCDD	57653-85-7	0.102	J	0.0285	5.46	1
11031	123789-HxCDD	19408-74-3	0.0954	J	0.0266	5.46	1
11031	1234678-HpCDD	35822-46-9	1.93	JB	0.0475	5.46	1
11031	OCDD	3268-87-9	21.5	B	0.0498	10.9	1
11031	2378-TCDF	51207-31-9	0.0329	U	0.0329	1.09	1
11031	12378-PeCDF	57117-41-6	0.0678	J	0.0178	5.46	1
11031	23478-PeCDF	57117-31-4	0.0743	JQ	0.0168	5.46	1
11031	123478-HxCDF	70648-26-9	0.0846	JB	0.0232	5.46	1
11031	123678-HxCDF	57117-44-9	0.0780	JBQ	0.0187	5.46	1
11031	123789-HxCDF	72918-21-9	0.0690	JB	0.0217	5.46	1
11031	234678-HxCDF	60851-34-5	0.107	JB	0.0185	5.46	1
11031	1234678-HpCDF	67562-39-4	0.472	JBQ	0.0199	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0474	JBQ	0.0283	5.46	1
11031	OCDF	39001-02-0	1.04	JB	0.0552	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	102	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182720
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX038-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182720
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX038-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 09:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182721
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX038-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182721
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX038-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0666	JQ	0.0412	1.14	1
11031	12378-PeCDD	40321-76-4	0.110	JQ	0.0392	5.69	1
11031	123478-HxCDD	39227-28-6	0.0321	U	0.0321	5.69	1
11031	123678-HxCDD	57653-85-7	0.0714	JQ	0.0337	5.69	1
11031	123789-HxCDD	19408-74-3	0.0328	U	0.0328	5.69	1
11031	1234678-HpCDD	35822-46-9	0.288	JB	0.0444	5.69	1
11031	OCDD	3268-87-9	0.882	JB	0.0499	11.4	1
11031	2378-TCDF	51207-31-9	0.0410	JQ	0.0395	1.14	1
11031	12378-PeCDF	57117-41-6	0.0981	JQ	0.0230	5.69	1
11031	23478-PeCDF	57117-31-4	0.126	J	0.0224	5.69	1
11031	123478-HxCDF	70648-26-9	0.0847	JBQ	0.0267	5.69	1
11031	123678-HxCDF	57117-44-9	0.0847	JBQ	0.0233	5.69	1
11031	123789-HxCDF	72918-21-9	0.0444	JBQ	0.0270	5.69	1
11031	234678-HxCDF	60851-34-5	0.104	JBQ	0.0246	5.69	1
11031	1234678-HpCDF	67562-39-4	0.364	JB	0.0212	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0822	JBQ	0.0305	5.69	1
11031	OCDF	39001-02-0	0.283	JB	0.0630	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182721
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX038-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182721
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX038-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 10:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182722
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX038-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182722
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX038-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0333	U	0.0333	1.12	1
11031	12378-PeCDD	40321-76-4	0.0330	U	0.0330	5.61	1
11031	123478-HxCDD	39227-28-6	0.0249	U	0.0249	5.61	1
11031	123678-HxCDD	57653-85-7	0.0255	U	0.0255	5.61	1
11031	123789-HxCDD	19408-74-3	0.0263	JQ	0.0244	5.61	1
11031	1234678-HpCDD	35822-46-9	0.189	JB	0.0368	5.61	1
11031	OCDD	3268-87-9	0.706	JB	0.0443	11.2	1
11031	2378-TCDF	51207-31-9	0.0341	U	0.0341	1.12	1
11031	12378-PeCDF	57117-41-6	0.0420	JQ	0.0182	5.61	1
11031	23478-PeCDF	57117-31-4	0.0742	JQ	0.0180	5.61	1
11031	123478-HxCDF	70648-26-9	0.0638	JB	0.0228	5.61	1
11031	123678-HxCDF	57117-44-9	0.0427	JBQ	0.0182	5.61	1
11031	123789-HxCDF	72918-21-9	0.0245	JB	0.0208	5.61	1
11031	234678-HxCDF	60851-34-5	0.0787	JBQ	0.0189	5.61	1
11031	1234678-HpCDF	67562-39-4	0.319	JB	0.0172	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0381	JB	0.0220	5.61	1
11031	OCDF	39001-02-0	0.288	JBQ	0.0494	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182722
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX038-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182722
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX038-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 11:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182723
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX038-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182723
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX038-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0473	U	0.0473	1.15	1
11031	12378-PeCDD	40321-76-4	0.0332	JQ	0.0309	5.77	1
11031	123478-HxCDD	39227-28-6	0.0249	U	0.0249	5.77	1
11031	123678-HxCDD	57653-85-7	0.0262	U	0.0262	5.77	1
11031	123789-HxCDD	19408-74-3	0.0340	JQ	0.0246	5.77	1
11031	1234678-HpCDD	35822-46-9	0.207	JB	0.0368	5.77	1
11031	OCDD	3268-87-9	0.897	JBQ	0.0397	11.5	1
11031	2378-TCDF	51207-31-9	0.0382	U	0.0382	1.15	1
11031	12378-PeCDF	57117-41-6	0.0192	U	0.0192	5.77	1
11031	23478-PeCDF	57117-31-4	0.0469	J	0.0185	5.77	1
11031	123478-HxCDF	70648-26-9	0.0411	JBQ	0.0155	5.77	1
11031	123678-HxCDF	57117-44-9	0.0197	JBQ	0.0134	5.77	1
11031	123789-HxCDF	72918-21-9	0.0228	JBQ	0.0157	5.77	1
11031	234678-HxCDF	60851-34-5	0.0346	JBQ	0.0147	5.77	1
11031	1234678-HpCDF	67562-39-4	0.112	JB	0.0145	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0255	JB	0.0206	5.77	1
11031	OCDF	39001-02-0	0.189	JB	0.0521	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182723
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX038-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182723
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX038-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 12:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182724
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX038-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182724
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX038-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0365	U	0.0365	1.10	1
11031	12378-PeCDD	40321-76-4	0.0308	U	0.0308	5.49	1
11031	123478-HxCDD	39227-28-6	0.0255	U	0.0255	5.49	1
11031	123678-HxCDD	57653-85-7	0.0422	JQ	0.0265	5.49	1
11031	123789-HxCDD	19408-74-3	0.0709	J	0.0247	5.49	1
11031	1234678-HpCDD	35822-46-9	0.174	JB	0.0327	5.49	1
11031	OCDD	3268-87-9	0.774	JB	0.0393	11.0	1
11031	2378-TCDF	51207-31-9	0.0356	U	0.0356	1.10	1
11031	12378-PeCDF	57117-41-6	0.0169	JQ	0.0144	5.49	1
11031	23478-PeCDF	57117-31-4	0.0536	JQ	0.0147	5.49	1
11031	123478-HxCDF	70648-26-9	0.0298	JBQ	0.0154	5.49	1
11031	123678-HxCDF	57117-44-9	0.0271	JBQ	0.0136	5.49	1
11031	123789-HxCDF	72918-21-9	0.0303	JBQ	0.0155	5.49	1
11031	234678-HxCDF	60851-34-5	0.0414	JBQ	0.0143	5.49	1
11031	1234678-HpCDF	67562-39-4	0.123	JBQ	0.0137	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0260	JBQ	0.0192	5.49	1
11031	OCDF	39001-02-0	0.110	JB	0.0465	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182724
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX038-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182724
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX038-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 13:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228868
Reported: 02/10/11 at 09:44 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11018162401B	Sample number(s): 6182722-6182724								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11026162401A	Sample number(s): 6182714-6182721								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11026001	Sample number(s): 6182714-6182724								
2378-TCDD	0.0468 U	0.0468	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0442 U	0.0442	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0330 U	0.0330	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0335 U	0.0335	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0310 U	0.0310	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.231 J	0.0445	5.00	ng/kg	92		70-140		
OCDD	0.604 J	0.0380	10.0	ng/kg	91		78-144		
2378-TCDF	0.0493 U	0.0493	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0235 U	0.0235	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0240 U	0.0240	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0920 J	0.0277	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0350 J	0.0216	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0311 J	0.0260	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0717 J	0.0249	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.285 J	0.0192	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0343 J	0.0273	5.00	ng/kg	92		78-138		
OCDF	0.323 J	0.0569	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11018162401B	Sample number(s): 6182722-6182724					BKG: P182711			
28a Moisture Content by 160.3						13.4	13.8	3	20
Batch number: 11026162401A	Sample number(s): 6182714-6182721					BKG: P182709			
28a Moisture Content by 160.3						12.2	12.3	0	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228868
Reported: 02/10/11 at 09:44 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11026001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6182714	76	79	57	70	75	79
6182715	74	82	58	72	77	81
6182716	77	82	65	79	78	87
6182717	70	72	62	76	74	77
6182718	78	86	70	76	82	88
6182719	77	84	65	77	79	82
6182720	85	97	77	92	92	95
6182721	73	81	72	81	77	79
6182722	73	82	66	81	80	86
6182723	69	77	72	82	75	82
6182724	72	82	75	83	79	87
Blank	76	76	69	85	75	83
OPR	62	71	58	69	67	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6182714	84	78	72	87	89	78
6182715	74	73	60	88	84	76
6182716	84	87	82	88	84	79
6182717	81	77	77	83	71	74
6182718	77	80	68	93	88	78
6182719	80	81	73	87	86	78
6182720	102	91	81	102	98	90
6182721	91	79	68	90	84	79
6182722	87	83	77	90	85	79
6182723	88	77	73	89	81	79
6182724	93	81	73	89	85	82
Blank	93	81	81	91	79	80
OPR	76	71	68	78	74	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6182714	78	80	88	84	73	82
6182715	79	80	87	82	74	84
6182716	82	83	90	89	77	84
6182717	77	77	82	85	69	78
6182718	79	82	85	82	83	88
6182719	80	80	85	81	79	86
6182720	94	95	100	97	88	101
6182721	79	79	86	81	74	84
6182722	80	83	89	86	75	85
6182723	76	79	84	83	69	81
6182724	81	83	89	85	74	88
Blank	81	84	91	93	71	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228868
Reported: 02/10/11 at 09:44 PM

Surrogate Quality Control

OPR	71	71	77	75	64	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cyp# 13255685 sample# 6152714-24

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	*VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-099-SA5B-SB-4.0-5.0	01.11.1	1026	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-099-SA5B-SB-4.5	01.11.1	1022	SOIL	NONE	5 ENCORES											X	X	X											
SL-100-SA5B-SB-4.0-5.0	01.11.1	0922	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-100-SA5B-SB-4.5	01.11.1	0918	SOIL	NONE	5 ENCORES											X	X	X											
SL-087-SA5B-SB-3.0-4.0	01.11.1	0908	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-087-SA5B-SB-3.5	01.11.1	0904	SOIL	NONE	5 ENCORES											X	X	X											
SL-085-SA5B-SB-3.0-4.0	01.11.1	1135	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-085-SA5B-SB-3.5	01.11.1	1130	SOIL	NONE	5 ENCORES											X	X	X											
SL-088-SA5B-SB-3.0-4.0	01.11.1	1028	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-088-SA5B-SB-3.5	01.11.1	1024	SOIL	NONE	5 ENCORES											X	X	X											
SL-089-SA5B-SB-4.0-5.0	01.11.1	1404	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-089-SA5B-SB-4.5	01.11.1	1400	SOIL	NONE	5 ENCORES											X	X	X											
SL-090-SA5B-SB-2.5-3.5	01.11.1	1305	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-090-SA5B-SB-3.0	01.11.1	1300	SOIL	NONE	5 ENCORES											X	X	X											
SL-091-SA5B-SB-4.0-5.0	01.11.1	1515	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-091-SA5B-SB-4.5	01.11.1	1511	SOIL	NONE	5 ENCORES											X	X	X											
SL-086-SA5B-SB-4.0-5.0	01.11.1	1600	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-086-SA5B-SB-4.5	01.11.1	1555	SOIL	NONE	4 ENCORES											X	X												
SL-094-SA5B-SB-4.0-5.0	01.11.1	1628	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-094-SA5B-SB-4.5	01.11.1	1624	SOIL	NONE	4 ENCORES											X	X												
SL-093-SA5B-SB-3.0-4.0	01.11.1	1526	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-093-SA5B-SB-3.5	01.11.1	1522	SOIL	NONE	4 ENCORES											X	X												
TB-011111	01.11.1	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/11/2011, 16:30	920	1/13/11
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8895 1432 2875, ...2887	

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/13/2011
Group Number: 1228890
SDG: DE058
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-095-SA5B-SB-4.0-5.0 Soil	6182836
SL-095-SA5B-SB-4.0-5.0MS Soil	6182837
SL-095-SA5B-SB-4.0-5.0MSD Soil	6182838
SL-095-SA5B-SB-4.0-5.DUP Soil	6182839
DUP18-SA5B-QC-011211 Soil	6182840
SL-096-SA5B-SB-2.0-3.0 Soil	6182841

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182836
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	14		6.9	8.2	0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1	0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1	0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2	0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1	0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1	0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1	0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1	0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2	0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1	0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1	0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1	0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1	0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1	0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1	0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1	0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1	0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1	0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1	0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1	0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2	0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2	0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1	0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2	0.9
06192	Methylene Chloride	75-09-2	0.59	J	0.25	4.1	0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.9

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182836
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1	0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1	0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1	0.9
06192	Toluene	108-88-3	0.09	J	0.08	4.1	0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1	0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1	0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1	0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1	0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1	0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1	0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1	0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1	0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1	0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14	21.01
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182836
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182836
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9	1
10225	PCB-1248	12672-29-6	2.3		0.38	1.9	1
10225	PCB-1254	11097-69-1	1.5	J	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.99	J	0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.62	22.4	1
07914	Boron	7440-42-8	0.995	U	0.995	5.59	1
01650	Calcium	7440-70-2	4,790		6.85	22.4	1
01654	Iron	7439-89-6	22,900		5.27	22.4	1
01656	Lithium	7439-93-2	23.4		0.25	2.2	1
01657	Magnesium	7439-95-4	4,300		2.84	11.2	1
06958	Manganese	7439-96-5	261		0.0872	0.559	1
10145	Phosphorus	7723-14-0	205		0.626	11.2	1
01662	Potassium	7440-09-7	1,940		20.1	55.9	1
01667	Sodium	7440-23-5	215		41.7	112	1
07968	Strontium	7440-24-6	30.0		0.0693	0.559	1
06969	Tin	7440-31-5	2.67	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,200		0.425	1.12	1
10146	Zirconium	7440-67-7	3.06	J	0.939	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.220	J	0.0671	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.15		0.0894	0.447	2
06126	Barium	7440-39-3	106		0.121	0.447	2
06127	Beryllium	7440-41-7	0.798		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.0945	J	0.0447	0.112	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182836
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	19.8	0.134	0.447	2
06132	Cobalt	7440-48-4	6.05	0.0224	0.112	2
06133	Copper	7440-50-8	7.47	0.0738	0.447	2
06135	Lead	7439-92-1	7.04	0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.681	0.0559	0.112	2
06139	Nickel	7440-02-0	12.2	0.112	0.447	2
06141	Selenium	7782-49-2	0.138 J	0.0447	0.447	2
06142	Silver	7440-22-4	0.0391 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.256	0.0335	0.112	2
06148	Vanadium	7440-62-2	37.7	0.0246	0.112	2
06149	Zinc	7440-66-6	48.3	0.626	3.35	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0298 J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	366	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.15	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-095-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182836
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141AA	01/14/2011 15:13	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 16:04	Jason M Long	21.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 16:58	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:31	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:31	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 16:55	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/21/2011 22:50	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 11:24	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 16:17	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 03:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 19:32	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 19:32	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 19:32	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 15:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 15:51	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182836
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 15:51	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 15:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 11:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201B	01/27/2011 02:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/20/2011 10:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 15:29	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201B	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182837
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	270	6.4	7.7	0.84
06192	Benzene	71-43-2	21	0.1	3.9	0.84
06192	Bromobenzene	108-86-1	20	0.13	3.9	0.84
06192	Bromochloromethane	74-97-5	21	0.32	3.9	0.84
06192	Bromodichloromethane	75-27-4	19	0.08	3.9	0.84
06192	Bromoform	75-25-2	20	0.39	3.9	0.84
06192	Bromomethane	74-83-9	14	0.24	3.9	0.84
06192	2-Butanone	78-93-3	180	1.2	7.7	0.84
06192	n-Butylbenzene	104-51-8	19	0.12	3.9	0.84
06192	sec-Butylbenzene	135-98-8	20	0.06	3.9	0.84
06192	tert-Butylbenzene	98-06-6	19	0.15	3.9	0.84
06192	Carbon Tetrachloride	56-23-5	22	0.13	3.9	0.84
06192	Chlorobenzene	108-90-7	21	0.11	3.9	0.84
06192	Chloroethane	75-00-3	14	0.13	3.9	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	14	0.29	3.9	0.84
06192	Chloroform	67-66-3	21	0.12	3.9	0.84
06192	Chloromethane	74-87-3	17	0.32	3.9	0.84
06192	2-Chlorotoluene	95-49-8	20	0.13	3.9	0.84
06192	4-Chlorotoluene	106-43-4	20	0.13	3.9	0.84
06192	Chlorotrifluoroethene	79-38-9	26	0.47	4.7	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.67	3.9	0.84
06192	Dibromochloromethane	124-48-1	20	0.19	3.9	0.84
06192	1,2-Dibromoethane	106-93-4	20	0.16	3.9	0.84
06192	Dibromomethane	74-95-3	20	0.23	3.9	0.84
06192	1,2-Dichlorobenzene	95-50-1	20	0.09	3.9	0.84
06192	1,3-Dichlorobenzene	541-73-1	20	0.12	3.9	0.84
06192	1,4-Dichlorobenzene	106-46-7	20	0.15	3.9	0.84
06192	Dichlorodifluoromethane	75-71-8	16	0.12	3.9	0.84
06192	1,1-Dichloroethane	75-34-3	21	0.1	3.9	0.84
06192	1,2-Dichloroethane	107-06-2	20	0.14	3.9	0.84
06192	1,1-Dichloroethene	75-35-4	22	0.38	3.9	0.84
06192	cis-1,2-Dichloroethene	156-59-2	22	0.18	3.9	0.84
06192	trans-1,2-Dichloroethene	156-60-5	22	0.12	3.9	0.84
06192	1,2-Dichloropropane	78-87-5	20	0.16	3.9	0.84
06192	1,3-Dichloropropane	142-28-9	19	0.08	3.9	0.84
06192	2,2-Dichloropropane	594-20-7	22	0.16	3.9	0.84
06192	1,1-Dichloropropene	563-58-6	21	0.13	3.9	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.15	3.9	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.16	3.9	0.84
06192	Ethylbenzene	100-41-4	20	0.06	3.9	0.84
06192	Freon 113	76-13-1	23	0.11	3.9	0.84
06192	Freon 133a	75-88-7	19	0.47	4.7	0.82
06192	Hexachlorobutadiene	87-68-3	18	0.13	3.9	0.84
06192	2-Hexanone	591-78-6	76	1.5	7.7	0.84
06192	Isopropylbenzene	98-82-8	20	0.06	3.9	0.84
06192	p-Isopropyltoluene	99-87-6	20	0.11	3.9	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.20	3.9	0.84
06192	4-Methyl-2-pentanone	108-10-1	63	0.38	7.7	0.84
06192	Methylene Chloride	75-09-2	20	0.23	3.9	0.84
06192	n-Propylbenzene	103-65-1	21	0.07	3.9	0.84

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182837
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20	0.1	3.9	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.11	3.9	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	18	0.22	3.9	0.84
06192	Tetrachloroethene	127-18-4	23	0.19	3.9	0.84
06192	Toluene	108-88-3	21	0.08	3.9	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	15	0.13	3.9	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	15	0.17	3.9	0.84
06192	1,1,1-Trichloroethane	71-55-6	21	0.19	3.9	0.84
06192	1,1,2-Trichloroethane	79-00-5	20	0.26	3.9	0.84
06192	Trichloroethene	79-01-6	21	0.14	3.9	0.84
06192	Trichlorofluoromethane	75-69-4	18	0.28	3.9	0.84
06192	1,2,3-Trichloropropane	96-18-4	19	0.32	3.9	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	20	0.39	3.9	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	20	0.1	3.9	0.84
06192	Vinyl Chloride	75-01-4	17	0.19	3.9	0.84
06192	m+p-Xylene	179601-23-1	42	0.16	3.9	0.84
06192	o-Xylene	95-47-6	19	0.16	3.9	0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110	4.7	14	20.63
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800	19	190	1
04688	Acenaphthylene	208-96-8	1,900	19	190	1
04688	Aniline	62-53-3	1,500	190	570	1
04688	Anthracene	120-12-7	1,900	19	190	1
04688	Benzidine	92-87-5	4,400	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,800	19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,800	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,900	19	190	1
04688	Benzoic acid	65-85-0	1,400	190	570	1
04688	Benzyl alcohol	100-51-6	1,800	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190	1
04688	Butylbenzylphthalate	85-68-7	1,900	19	190	1
04688	Di-n-butylphthalate	84-74-2	1,800	19	190	1
04688	Carbazole	86-74-8	1,900	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	38	190	1
04688	4-Chloroaniline	106-47-8	1,100	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700	19	190	1
04688	2-Chloronaphthalene	91-58-7	1,500	19	190	1
04688	2-Chlorophenol	95-57-8	1,900	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	38	190	1
04688	Chrysene	218-01-9	1,900	19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	19	190	1
04688	Dibenzofuran	132-64-9	1,900	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182837
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,500	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,900	19	190	1
04688	Diethylphthalate	84-66-2	1,800	19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190	1
04688	3,5-Dimethylphenol	108-68-9	2,100	38	190	1
04688	Dimethylphthalate	131-11-3	1,800	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	190	570	1
04688	2,4-Dinitrophenol	51-28-5	2,900	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	1,800	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	380	1
04688	Fluoranthene	206-44-0	1,900	19	190	1
04688	Fluorene	86-73-7	1,800	19	190	1
04688	Hexachlorobenzene	118-74-1	1,800	19	190	1
04688	Hexachlorobutadiene	87-68-3	1,600	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	570	1
04688	Hexachloroethane	67-72-1	1,400	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	19	190	1
04688	Isophorone	78-59-1	1,800	19	190	1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,900	38	190	1
04688	4-Methylphenol	106-44-5	1,800	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,800	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	38	190	1
04688	4-Nitroaniline	100-01-6	1,500	76	190	1
04688	Nitrobenzene	98-95-3	1,700	19	190	1
04688	2-Nitrophenol	88-75-5	1,700	19	190	1
04688	4-Nitrophenol	100-02-7	1,500	190	570	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,900	19	190	1
04688	Pentachlorophenol	87-86-5	1,600	190	570	1
04688	Phenanthrene	85-01-8	1,900	19	190	1
04688	Phenol	108-95-2	1,900	19	190	1
04688	Pyrene	129-00-0	1,900	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182837
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,900		38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.76	1.9	1
10138	Acenaphthylene	208-96-8	35		0.38	1.9	1
10138	Anthracene	120-12-7	35		0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	35		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	43		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	41		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	44		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	49		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	41		6.8	21	1
10138	Di-n-butylphthalate	84-74-2	41		6.8	21	1
10138	Chrysene	218-01-9	37		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	48		0.76	1.9	1
10138	Diethylphthalate	84-66-2	39		6.8	21	1
10138	Dimethylphthalate	131-11-3	40		6.8	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43		6.8	21	1
10138	Fluoranthene	206-44-0	37		0.76	1.9	1
10138	Fluorene	86-73-7	36		0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	47		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	36		0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	34		0.76	1.9	1
10138	Naphthalene	91-20-3	34		0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	41		0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	44		6.8	21	1
10138	Phenanthrene	85-01-8	35		0.76	1.9	1
10138	Pyrene	129-00-0	33		0.76	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	120		2.4	5.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	16		0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9	1
10225	PCB-1248	12672-29-6	13		0.38	1.9	1
10225	PCB-1254	11097-69-1	3.7		0.38	1.9	1
10225	PCB-1260	11096-82-5	25		0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182837
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,200	5.74	22.8	1
07914	Boron	7440-42-8	219	1.01	5.70	1
01650	Calcium	7440-70-2	3,920	6.99	22.8	1
01654	Iron	7439-89-6	25,300	5.37	22.8	1
01656	Lithium	7439-93-2	142	0.25	2.3	1
01657	Magnesium	7439-95-4	4,970	2.90	11.4	1
06958	Manganese	7439-96-5	351	0.0889	0.570	1
10145	Phosphorus	7723-14-0	320	0.639	11.4	1
01662	Potassium	7440-09-7	3,490	20.5	57.0	1
01667	Sodium	7440-23-5	1,320	42.5	114	1
07968	Strontium	7440-24-6	141	0.0707	0.570	1
06969	Tin	7440-31-5	413	1.14	11.4	1
06970	Titanium	7440-32-6	1,480	0.433	1.14	1
10146	Zirconium	7440-67-7	114	0.958	5.70	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.683	0.0677	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.71	0.0903	0.452	2
06126	Barium	7440-39-3	125	0.122	0.452	2
06127	Beryllium	7440-41-7	1.67	0.0181	0.113	2
06128	Cadmium	7440-43-9	1.21	0.0452	0.113	2
06131	Chromium	7440-47-3	31.7	0.135	0.452	2
06132	Cobalt	7440-48-4	57.5	0.0226	0.113	2
06133	Copper	7440-50-8	18.1	0.0745	0.452	2
06135	Lead	7439-92-1	10.6	0.0117	0.226	2
06138	Molybdenum	7439-98-7	12.3	0.0564	0.113	2
06139	Nickel	7440-02-0	23.1	0.113	0.452	2
06141	Selenium	7782-49-2	2.08	0.0452	0.452	2
06142	Silver	7440-22-4	11.9	0.0135	0.113	2
06145	Thallium	7440-28-0	0.726	0.0339	0.113	2
06148	Vanadium	7440-62-2	52.2	0.0248	0.113	2
06149	Zinc	7440-66-6	59.3	0.632	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.248	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.5	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	510	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	44.5	1.1	5.7	5

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182837
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-095-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141AA	01/14/2011 15:36	Laura M Krieger	0.84
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141AA	01/14/2011 16:20	Laura M Krieger	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 16:24	Jason M Long	20.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:02	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:31	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 16:59	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/21/2011 23:16	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 11:57	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 16:23	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 03:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 19:44	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 19:44	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182837
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 19:44	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/23/2011 18:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:00	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 11:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201B	01/27/2011 02:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/20/2011 11:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 15:41	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201B	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182838
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	280	6.8	8.2	0.9
06192	Benzene	71-43-2	22	0.10	4.1	0.9
06192	Bromobenzene	108-86-1	20	0.13	4.1	0.9
06192	Bromochloromethane	74-97-5	21	0.34	4.1	0.9
06192	Bromodichloromethane	75-27-4	20	0.08	4.1	0.9
06192	Bromoform	75-25-2	20	0.41	4.1	0.9
06192	Bromomethane	74-83-9	15	0.26	4.1	0.9
06192	2-Butanone	78-93-3	190	1.2	8.2	0.9
06192	n-Butylbenzene	104-51-8	19	0.12	4.1	0.9
06192	sec-Butylbenzene	135-98-8	20	0.06	4.1	0.9
06192	tert-Butylbenzene	98-06-6	20	0.16	4.1	0.9
06192	Carbon Tetrachloride	56-23-5	23	0.14	4.1	0.9
06192	Chlorobenzene	108-90-7	21	0.11	4.1	0.9
06192	Chloroethane	75-00-3	15	0.13	4.1	0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.31	4.1	0.9
06192	Chloroform	67-66-3	22	0.12	4.1	0.9
06192	Chloromethane	74-87-3	18	0.34	4.1	0.9
06192	2-Chlorotoluene	95-49-8	20	0.14	4.1	0.9
06192	4-Chlorotoluene	106-43-4	20	0.14	4.1	0.9
06192	Chlorotrifluoroethene	79-38-9	28	0.47	4.7	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.71	4.1	0.9
06192	Dibromochloromethane	124-48-1	21	0.20	4.1	0.9
06192	1,2-Dibromoethane	106-93-4	20	0.17	4.1	0.9
06192	Dibromomethane	74-95-3	21	0.25	4.1	0.9
06192	1,2-Dichlorobenzene	95-50-1	20	0.09	4.1	0.9
06192	1,3-Dichlorobenzene	541-73-1	20	0.12	4.1	0.9
06192	1,4-Dichlorobenzene	106-46-7	20	0.16	4.1	0.9
06192	Dichlorodifluoromethane	75-71-8	17	0.12	4.1	0.9
06192	1,1-Dichloroethane	75-34-3	22	0.10	4.1	0.9
06192	1,2-Dichloroethane	107-06-2	21	0.15	4.1	0.9
06192	1,1-Dichloroethene	75-35-4	22	0.40	4.1	0.9
06192	cis-1,2-Dichloroethene	156-59-2	22	0.19	4.1	0.9
06192	trans-1,2-Dichloroethene	156-60-5	23	0.12	4.1	0.9
06192	1,2-Dichloropropane	78-87-5	21	0.17	4.1	0.9
06192	1,3-Dichloropropane	142-28-9	20	0.08	4.1	0.9
06192	2,2-Dichloropropane	594-20-7	22	0.17	4.1	0.9
06192	1,1-Dichloropropene	563-58-6	21	0.13	4.1	0.9
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.16	4.1	0.9
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.17	4.1	0.9
06192	Ethylbenzene	100-41-4	20	0.06	4.1	0.9
06192	Freon 113	76-13-1	23	0.11	4.1	0.9
06192	Freon 133a	75-88-7	19	0.47	4.7	0.82
06192	Hexachlorobutadiene	87-68-3	19	0.14	4.1	0.9
06192	2-Hexanone	591-78-6	81	1.6	8.2	0.9
06192	Isopropylbenzene	98-82-8	20	0.06	4.1	0.9
06192	p-Isopropyltoluene	99-87-6	20	0.11	4.1	0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.21	4.1	0.9
06192	4-Methyl-2-pentanone	108-10-1	68	0.40	8.2	0.9
06192	Methylene Chloride	75-09-2	21	0.25	4.1	0.9
06192	n-Propylbenzene	103-65-1	20	0.07	4.1	0.9

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182838
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20		0.10	4.1	0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	22		0.11	4.1	0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	19		0.23	4.1	0.9
06192	Tetrachloroethene	127-18-4	23		0.20	4.1	0.9
06192	Toluene	108-88-3	21		0.08	4.1	0.9
06192	1,2,3-Trichlorobenzene	87-61-6	16		0.14	4.1	0.9
06192	1,2,4-Trichlorobenzene	120-82-1	16		0.18	4.1	0.9
06192	1,1,1-Trichloroethane	71-55-6	22		0.20	4.1	0.9
06192	1,1,2-Trichloroethane	79-00-5	21		0.28	4.1	0.9
06192	Trichloroethene	79-01-6	22		0.15	4.1	0.9
06192	Trichlorofluoromethane	75-69-4	19		0.30	4.1	0.9
06192	1,2,3-Trichloropropane	96-18-4	19		0.34	4.1	0.9
06192	1,2,4-Trimethylbenzene	95-63-6	20		0.41	4.1	0.9
06192	1,3,5-Trimethylbenzene	108-67-8	20		0.10	4.1	0.9
06192	Vinyl Chloride	75-01-4	19		0.20	4.1	0.9
06192	m+p-Xylene	179601-23-1	42		0.17	4.1	0.9
06192	o-Xylene	95-47-6	19		0.17	4.1	0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		5.3	16	23.15
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,800		19	190	1
04688	Aniline	62-53-3	1,500		190	570	1
04688	Anthracene	120-12-7	1,800		19	190	1
04688	Benzidine	92-87-5	3,300	J	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190	1
04688	Benzoic acid	65-85-0	1,600		190	570	1
04688	Benzyl alcohol	100-51-6	1,800		190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190	1
04688	4-Chloroaniline	106-47-8	990		76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		38	190	1
04688	Chrysene	218-01-9	1,800		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182838
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,700	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190	1
04688	Diethylphthalate	84-66-2	1,700	19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190	1
04688	3,5-Dimethylphenol	108-68-9	2,000	38	190	1
04688	Dimethylphthalate	131-11-3	1,700	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	570	1
04688	2,4-Dinitrophenol	51-28-5	2,900	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	1,700	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	380	1
04688	Fluoranthene	206-44-0	1,800	19	190	1
04688	Fluorene	86-73-7	1,700	19	190	1
04688	Hexachlorobenzene	118-74-1	1,800	19	190	1
04688	Hexachlorobutadiene	87-68-3	1,600	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,600	190	570	1
04688	Hexachloroethane	67-72-1	1,500	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190	1
04688	Isophorone	78-59-1	1,700	19	190	1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,900	38	190	1
04688	4-Methylphenol	106-44-5	1,800	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,800	19	190	1
04688	3-Nitroaniline	99-09-2	1,700	38	190	1
04688	4-Nitroaniline	100-01-6	1,400	76	190	1
04688	Nitrobenzene	98-95-3	1,700	19	190	1
04688	2-Nitrophenol	88-75-5	1,700	19	190	1
04688	4-Nitrophenol	100-02-7	1,500	190	570	1
04688	N-Nitrosodimethylamine	62-75-9	1,500	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,800	19	190	1
04688	Pentachlorophenol	87-86-5	1,600	190	570	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,800	19	190	1
04688	Pyrene	129-00-0	1,900	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182838
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.76	1.9	1
10138	Acenaphthylene	208-96-8	35		0.38	1.9	1
10138	Anthracene	120-12-7	36		0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	37		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	45		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	50		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	30		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	45		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	41		6.8	21	1
10138	Di-n-butylphthalate	84-74-2	43		6.8	21	1
10138	Chrysene	218-01-9	36		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	32		0.76	1.9	1
10138	Diethylphthalate	84-66-2	40		6.8	21	1
10138	Dimethylphthalate	131-11-3	43		6.8	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.8	21	1
10138	Fluoranthene	206-44-0	37		0.76	1.9	1
10138	Fluorene	86-73-7	36		0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	36		0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	33		0.76	1.9	1
10138	Naphthalene	91-20-3	35		0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	37		0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	45		6.8	21	1
10138	Phenanthrene	85-01-8	35		0.76	1.9	1
10138	Pyrene	129-00-0	33		0.76	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	120		2.4	5.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	11		1.1	3.8	1
10225	PCB-1016	12674-11-2	16		0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9	1
10225	PCB-1248	12672-29-6	20		0.38	1.9	1
10225	PCB-1254	11097-69-1	11		0.38	1.9	1
10225	PCB-1260	11096-82-5	23		0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182838
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300	5.57	22.1	1
07914	Boron	7440-42-8	209	0.985	5.54	1
01650	Calcium	7440-70-2	3,790	6.79	22.1	1
01654	Iron	7439-89-6	25,000	5.21	22.1	1
01656	Lithium	7439-93-2	137	0.24	2.2	1
01657	Magnesium	7439-95-4	4,860	2.81	11.1	1
06958	Manganese	7439-96-5	315	0.0863	0.554	1
10145	Phosphorus	7723-14-0	330	0.620	11.1	1
01662	Potassium	7440-09-7	3,440	19.9	55.4	1
01667	Sodium	7440-23-5	1,280	41.3	111	1
07968	Strontium	7440-24-6	135	0.0686	0.554	1
06969	Tin	7440-31-5	397	1.11	11.1	1
06970	Titanium	7440-32-6	1,470	0.421	1.11	1
10146	Zirconium	7440-67-7	110	0.930	5.54	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.668	0.0677	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.31	0.0903	0.452	2
06126	Barium	7440-39-3	109	0.122	0.452	2
06127	Beryllium	7440-41-7	1.53	0.0181	0.113	2
06128	Cadmium	7440-43-9	1.24	0.0452	0.113	2
06131	Chromium	7440-47-3	29.9	0.135	0.452	2
06132	Cobalt	7440-48-4	56.7	0.0226	0.113	2
06133	Copper	7440-50-8	18.4	0.0745	0.452	2
06135	Lead	7439-92-1	10.4	0.0117	0.226	2
06138	Molybdenum	7439-98-7	11.7	0.0564	0.113	2
06139	Nickel	7440-02-0	22.4	0.113	0.452	2
06141	Selenium	7782-49-2	2.16	0.0452	0.452	2
06142	Silver	7440-22-4	11.4	0.0135	0.113	2
06145	Thallium	7440-28-0	0.723	0.0339	0.113	2
06148	Vanadium	7440-62-2	48.0	0.0248	0.113	2
06149	Zinc	7440-66-6	58.6	0.632	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.252	0.0033	0.114	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182838
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-095-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141AA	01/14/2011 15:58	Laura M Krieger	0.9
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141AA	01/14/2011 16:43	Laura M Krieger	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 16:43	Jason M Long	23.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:07	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 17:04	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/21/2011 23:41	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/20/2011 12:29	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 16:30	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 03:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 19:48	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 19:48	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 19:48	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182838
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:04	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:04	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:04	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:04	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 11:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA5B-SB-4.0-5.DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182839
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.57	22.1	1
07914	Boron	7440-42-8	0.985	U	0.985	5.54	1
01650	Calcium	7440-70-2	3,000		6.79	22.1	1
01654	Iron	7439-89-6	21,800		5.21	22.1	1
01656	Lithium	7439-93-2	23.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,160		2.81	11.1	1
06958	Manganese	7439-96-5	266		0.0863	0.554	1
10145	Phosphorus	7723-14-0	210		0.620	11.1	1
01662	Potassium	7440-09-7	2,190		19.9	55.4	1
01667	Sodium	7440-23-5	175		41.3	111	1
07968	Strontium	7440-24-6	25.7		0.0686	0.554	1
06969	Tin	7440-31-5	2.70	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,200		0.421	1.11	1
10146	Zirconium	7440-67-7	3.38	J	0.930	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0684	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.95		0.0912	0.456	2
06126	Barium	7440-39-3	104		0.123	0.456	2
06127	Beryllium	7440-41-7	0.760		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.110	J	0.0456	0.114	2
06131	Chromium	7440-47-3	19.8		0.137	0.456	2
06132	Cobalt	7440-48-4	5.62		0.0228	0.114	2
06133	Copper	7440-50-8	7.90		0.0753	0.456	2
06135	Lead	7439-92-1	6.53		0.0119	0.228	2
06138	Molybdenum	7439-98-7	0.635		0.0570	0.114	2
06139	Nickel	7440-02-0	12.0		0.114	0.456	2
06141	Selenium	7782-49-2	0.0668	J	0.0456	0.456	2
06142	Silver	7440-22-4	0.0572	J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.247		0.0342	0.114	2
06148	Vanadium	7440-62-2	37.1		0.0251	0.114	2
06149	Zinc	7440-66-6	50.9		0.639	3.42	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0336	J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182839
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	366	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.17	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3		n.a.	12.3	0.50	0.50	1
11626	28a Moisture Content by 160.3		n.a.	13.1	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 19:40	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 19:40	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 19:40	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 15:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-095-SA5B-SB-4.0-5.DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182839
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL095 SDG#: DE058-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 15:57	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 15:57	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 15:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 11:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201B	01/27/2011 02:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/20/2011 10:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 16:18	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201B	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401A	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP18-SA5B-QC-011211 Soil
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182840
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP18 SDG#: DE058-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.9	U	6.9	8.3	0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1	0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1	0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3	0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1	0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.1	0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1	0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1	0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.1	0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.1	0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2	0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1	0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1	0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1	0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1	0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1	0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1	0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1	0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1	0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1	0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1	0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1	0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2	0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.1	0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3	0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1	0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3	0.9
06192	Methylene Chloride	75-09-2	0.70	J	0.25	4.1	0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.9

*=This limit was used in the evaluation of the final result

Sample Description: **DUP18-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182840
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP18 SDG#: DE058-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1	0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1	0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1	0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1	0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.1	0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1	0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1	0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1	0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1	0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1	0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1	0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1	0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1	0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1	0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	21.29
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP18-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182840
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP18 SDG#: DE058-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.97	J	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.66	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP18-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182840
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP18 SDG#: DE058-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.7	J	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0	1
10225	PCB-1248	12672-29-6	2.6		0.38	2.0	1
10225	PCB-1254	11097-69-1	1.9	J	0.38	2.0	1
10225	PCB-1260	11096-82-5	1.4	J	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		5.68	22.6	1
07914	Boron	7440-42-8	1.01	U	1.01	5.65	1
01650	Calcium	7440-70-2	2,560		6.92	22.6	1
01654	Iron	7439-89-6	21,700		5.32	22.6	1
01656	Lithium	7439-93-2	21.7		0.25	2.3	1
01657	Magnesium	7439-95-4	4,100		2.87	11.3	1
06958	Manganese	7439-96-5	282		0.0881	0.565	1
10145	Phosphorus	7723-14-0	220		0.633	11.3	1
01662	Potassium	7440-09-7	2,350		20.3	56.5	1
01667	Sodium	7440-23-5	190		42.1	113	1
07968	Strontium	7440-24-6	21.9		0.0700	0.565	1
06969	Tin	7440-31-5	2.52	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,150		0.429	1.13	1
10146	Zirconium	7440-67-7	2.53	J	0.949	5.65	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102	J	0.0678	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.54		0.0904	0.452	2
06126	Barium	7440-39-3	103		0.122	0.452	2

*=This limit was used in the evaluation of the final result

Sample Description: **DUP18-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182840
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP18 SDG#: DE058-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.694	0.0181	0.113	2
06128	Cadmium	7440-43-9	0.285	0.0452	0.113	2
06131	Chromium	7440-47-3	19.5	0.136	0.452	2
06132	Cobalt	7440-48-4	7.47	0.0226	0.113	2
06133	Copper	7440-50-8	9.15	0.0745	0.452	2
06135	Lead	7439-92-1	7.04	0.0117	0.226	2
06138	Molybdenum	7439-98-7	0.772	0.0565	0.113	2
06139	Nickel	7440-02-0	13.4	0.113	0.452	2
06141	Selenium	7782-49-2	0.107 J	0.0452	0.452	2
06142	Silver	7440-22-4	0.0488 J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.278	0.0339	0.113	2
06148	Vanadium	7440-62-2	36.8	0.0248	0.113	2
06149	Zinc	7440-66-6	54.6	0.633	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0291 J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40 J	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	350	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.15	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: DUP18-SA5B-QC-011211 Soil
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182840
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP18 SDG#: DE058-02FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141AA	01/14/2011 17:06	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 15:26	Jason M Long	21.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:13	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 17:09	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 04:43	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/21/2011 02:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 04:01	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 19:55	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 19:55	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 19:55	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: DUP18-SA5B-QC-011211 Soil
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182840
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP18 SDG#: DE058-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:10	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 11:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201B	01/27/2011 03:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/20/2011 11:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 16:31	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201B	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-096-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182841
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL096 SDG#: DE058-03*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.0	U	7.0	8.4	0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.2	0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.95
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2	0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4	0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.95
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2	0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2	0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.95
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2	0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.95
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2	0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2	0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2	0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2	0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2	0.95
06192	Freon 113	76-13-1	0.11	U	0.11	4.2	0.95
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2	0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4	0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.95
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2	0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4	0.95
06192	Methylene Chloride	75-09-2	0.76	J	0.25	4.2	0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.95

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182841
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL096 SDG#: DE058-03*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2	0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2	0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.95
06192	Toluene	108-88-3	0.08	U	0.08	4.2	0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2	0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.95
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2	0.95
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2	0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2	0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2	0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	22.64
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182841
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL096 SDG#: DE058-03*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182841
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL096 SDG#: DE058-03*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		5.38	21.4	1
07914	Boron	7440-42-8	0.952	U	0.952	5.35	1
01650	Calcium	7440-70-2	2,140		6.55	21.4	1
01654	Iron	7439-89-6	20,600		5.04	21.4	1
01656	Lithium	7439-93-2	20.6		0.24	2.1	1
01657	Magnesium	7439-95-4	4,100		2.72	10.7	1
06958	Manganese	7439-96-5	203		0.0834	0.535	1
10145	Phosphorus	7723-14-0	177		0.599	10.7	1
01662	Potassium	7440-09-7	1,730		19.2	53.5	1
01667	Sodium	7440-23-5	126		39.9	107	1
07968	Strontium	7440-24-6	16.5		0.0663	0.535	1
06969	Tin	7440-31-5	2.48	J	1.07	10.7	1
06970	Titanium	7440-32-6	997		0.406	1.07	1
10146	Zirconium	7440-67-7	1.67	J	0.898	5.35	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0654	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.69		0.0872	0.436	2
06126	Barium	7440-39-3	60.6		0.118	0.436	2
06127	Beryllium	7440-41-7	0.495		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0674	J	0.0436	0.109	2
06131	Chromium	7440-47-3	13.9		0.131	0.436	2
06132	Cobalt	7440-48-4	3.93		0.0218	0.109	2
06133	Copper	7440-50-8	4.64		0.0720	0.436	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182841
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL096 SDG#: DE058-03*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	4.97	0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.359	0.0545	0.109	2
06139	Nickel	7440-02-0	7.19	0.109	0.436	2
06141	Selenium	7782-49-2	0.0995 J	0.0436	0.436	2
06142	Silver	7440-22-4	0.0155 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.245	0.0327	0.109	2
06148	Vanadium	7440-62-2	32.0	0.0240	0.109	2
06149	Zinc	7440-66-6	42.0	0.611	3.27	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0089 J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	372	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.91	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-096-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182841
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL096 SDG#: DE058-03*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141AA	01/14/2011 17:28	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110141AA	01/14/2011 15:45	Jason M Long	22.64
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:17	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 17:15	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLA026	01/22/2011 05:08	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11015SLD026	01/21/2011 03:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11015SLD026	01/17/2011 07:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLA026	01/17/2011 07:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170028A	01/26/2011 05:34	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170028A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 20:07	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 20:07	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 20:07	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:13	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/23/2011 18:24	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182841
LLI Group # 1228890
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 01/30/2011 20:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL096 SDG#: DE058-03*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 11:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025201B	01/27/2011 03:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11019621202A	01/20/2011 12:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11024243202A	01/25/2011 16:56	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025201B	01/25/2011 13:40	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11019621202A	01/19/2011 15:00	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11024243202A	01/24/2011 20:45	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228890
Reported: 01/30/11 at 08:55 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110141AA	Sample number(s): 6182836-6182838,6182840-6182841									
Acetone	6.7	U	6.7	8.0	ug/kg	171		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	104		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	105		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	71		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	122		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	89		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	89		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	87		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	73		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	87		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	105		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	85		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	118		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	94		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	101		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	103		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	106		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	100		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	90		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	87		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	79		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	96		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	90		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228890
Reported: 01/30/11 at 08:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	72		61-134		
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	97		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	94		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	99		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	106		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	110		77-120		
Toluene	0.17	J	0.08	4.0	ug/kg	103		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	88		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	81		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	105		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	83		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	77		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E110141AA	Sample number(s): 6182836-6182838,6182840-6182841									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	102	105	70-130	3	30
Batch number: 11015SLA026	Sample number(s): 6182836-6182838,6182840-6182841									
Acenaphthene	17	U	17.	170	ug/kg	96		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	100		75-122		
Aniline	170 U		170.	500	ug/kg	73		10-107		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	52		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	99		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	98		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	100		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	102		67-125		
Benzoic acid	170 U		170.	500	ug/kg	107		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	97		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228890
Reported: 01/30/11 at 08:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	66		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	112		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	81		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	79		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	98		64-119		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	98		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	94		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	93		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	85		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	104		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	90		35-106		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11015SLD026	Sample number(s): 6182836-6182838,6182840-6182841									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	90		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	109		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	144*		63-143		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228890
Reported: 01/30/11 at 08:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	121		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	96		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	88		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	113		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	92		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	89		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	92		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	76		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	106		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	87		56-121		
Batch number: 110200023A	Sample number(s): 6182836-6182838									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110170028A	Sample number(s): 6182836-6182838,6182840-6182841									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70*	66*	75-125	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	114		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110191026001A	Sample number(s): 6182836-6182841									
Antimony	0.0600	U	0.0600	0.200	mg/kg	134		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	99		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	103		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	99		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	98		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	98		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	100		78-122		
Batch number: 110191026001B	Sample number(s): 6182836-6182841									
Selenium	0.0400	U	0.0400	0.400	mg/kg	103		79-122		
Batch number: 110191026001C	Sample number(s): 6182836-6182841									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	107		78-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228890
Reported: 01/30/11 at 08:55 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110191026001D	Sample number(s): 6182836-6182841									
Barium	0.108	U	0.108	0.400	mg/kg	101		79-121		
Batch number: 110195708001	Sample number(s): 6182836-6182841									
Aluminum	5.03	U	5.03	20.0	mg/kg	90		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	88		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	94		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	101		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	94		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	1.36	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.00	U	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	94		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110215711003	Sample number(s): 6182836-6182841									
Mercury	0.0028	U	0.0028	0.0968	mg/kg	98		88-123		
Batch number: 11019621202A	Sample number(s): 6182836-6182837,6182839-6182841									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	92		85-115		
Batch number: 11024243202A	Sample number(s): 6182836-6182837,6182839-6182841									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11025025201B	Sample number(s): 6182836-6182837,6182839-6182841									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11018039401A	Sample number(s): 6182836,6182839									
22a pH by 9045C						100		95-105		
Batch number: 11018039401B	Sample number(s): 6182840-6182841									
22a pH by 9045C						100		95-105		
Batch number: 11018182101B	Sample number(s): 6182836,6182839-6182841									
Oxidation Reduction Potential						99		98-102		
Batch number: 11014162401A	Sample number(s): 6182836-6182841									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110141AA	Sample number(s): 6182836-6182838,6182840-6182841 UNSPK: 6182836								
Acetone	176	174	15-210	5	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzene	111	107	55-143	3	30				
Bromobenzene	102	99	43-139	3	30				
Bromochloromethane	109	104	60-137	1	30				
Bromodichloromethane	101	98	53-136	3	30				
Bromoform	103	100	38-124	2	30				
Bromomethane	72	73	42-168	8	30				
2-Butanone	124	121	37-163	4	30				
n-Butylbenzene	100	94	30-146	1	30				
sec-Butylbenzene	102	98	33-157	2	30				
tert-Butylbenzene	100	96	41-152	1	30				
Carbon Tetrachloride	116	111	45-153	1	30				
Chlorobenzene	109	103	49-135	0	30				
Chloroethane	72	73	39-152	7	30				
2-Chloroethyl Vinyl Ether	75	80	32-139	12	30				
Chloroform	109	105	61-142	2	30				
Chloromethane	88	89	51-163	7	30				
2-Chlorotoluene	105	99	42-146	0	30				
4-Chlorotoluene	104	99	39-145	1	30				
Chlorotrifluoroethene	140*	148*	70-130	6	30				
1,2-Dibromo-3-chloropropane	80	80	30-139	5	30				
Dibromochloromethane	105	102	51-128	2	30				
1,2-Dibromoethane	103	99	54-129	2	30				
Dibromomethane	105	103	57-130	4	30				
1,2-Dichlorobenzene	102	97	36-133	1	30				
1,3-Dichlorobenzene	102	96	34-134	0	30				
1,4-Dichlorobenzene	102	97	35-136	1	30				
Dichlorodifluoromethane	83	83	26-151	5	30				
1,1-Dichloroethane	109	106	63-142	3	30				
1,2-Dichloroethane	104	102	68-131	4	30				
1,1-Dichloroethene	114	109	61-149	1	30				
cis-1,2-Dichloroethene	113	109	60-136	2	30				
trans-1,2-Dichloroethene	116	112	59-142	3	30				
1,2-Dichloropropane	102	102	62-135	6	30				
1,3-Dichloropropane	100	97	58-129	3	30				
2,2-Dichloropropane	113	107	53-147	1	30				
1,1-Dichloropropene	108	104	54-145	2	30				
cis-1,3-Dichloropropene	90	90	51-131	6	30				
trans-1,3-Dichloropropene	91	92	49-129	6	30				
Ethylbenzene	104	99	44-141	1	30				
Freon 113	118	113	56-156	1	30				
Freon 133a	100	101	70-130	2	30				
Hexachlorobutadiene	94	91	10-155	2	30				
2-Hexanone	79	79	32-160	7	30				
Isopropylbenzene	103	97	38-144	1	30				
p-Isopropyltoluene	102	96	29-152	0	30				
Methyl Tertiary Butyl Ether	98	97	55-129	5	30				
4-Methyl-2-pentanone	65	67	46-139	8	30				
Methylene Chloride	101	100	61-141	4	30				
n-Propylbenzene	107	100	39-157	1	30				
Styrene	104	100	35-134	2	30				
1,1,1,2-Tetrachloroethane	110	107	52-130	3	30				
1,1,2,2-Tetrachloroethane	95	93	40-152	3	30				
Tetrachloroethene	119	113	42-149	1	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Toluene	109	105	50-146	2	30				
1,2,3-Trichlorobenzene	79	79	10-140	5	30				
1,2,4-Trichlorobenzene	76	76	10-136	6	30				
1,1,1-Trichloroethane	111	107	64-142	3	30				
1,1,2-Trichloroethane	106	103	54-139	3	30				
Trichloroethene	108	107	53-144	5	30				
Trichlorofluoromethane	94	94	47-163	6	30				
1,2,3-Trichloropropane	99	95	45-154	2	30				
1,2,4-Trimethylbenzene	101	98	37-149	2	30				
1,3,5-Trimethylbenzene	103	98	38-150	1	30				
Vinyl Chloride	89	91	50-154	8	30				
m+p-Xylene	109	104	44-137	1	30				
o-Xylene	98	95	42-137	3	30				
Batch number: E110141AA	Sample number(s): 6182836-6182838,6182840-6182841 UNSPK: 6182836								
1,4-Dioxane	93	93	70-130	12	30				
Batch number: 11015SLA026	Sample number(s): 6182836-6182838,6182840-6182841 UNSPK: 6182836								
Acenaphthene	95	92	75-115	3	30				
Acenaphthylene	98	95	49-126	3	30				
Aniline	80	80	14-114	1	30				
Anthracene	99	92	75-115	7	30				
Benzidine	46	35	35-141	27	30				
Benzo(a)anthracene	96	94	65-122	3	30				
Benzo(a)pyrene	97	93	57-126	5	30				
Benzo(b)fluoranthene	93	92	59-125	2	30				
Benzo(g,h,i)perylene	100	102	59-127	2	30				
Benzo(k)fluoranthene	100	95	56-132	6	30				
Benzoic acid	76	83	10-173	10	30				
Benzyl alcohol	97	97	55-123	0	30				
4-Bromophenyl-phenylether	96	89	67-129	7	30				
Butylbenzylphthalate	100	95	73-134	6	30				
Di-n-butylphthalate	97	92	67-123	5	30				
Carbazole	98	93	64-120	6	30				
4-Chloro-3-methylphenol	96	93	53-130	3	30				
4-Chloroaniline	58	52	23-95	11	30				
bis(2-Chloroethoxy)methane	93	89	54-117	4	30				
bis(2-Chloroethyl)ether	90	92	60-116	3	30				
bis(2-Chloroisopropyl)ether	88	89	55-142	2	30				
2-Chloronaphthalene	78	78	50-141	0	30				
2-Chlorophenol	97	95	73-121	3	30				
4-Chlorophenyl-phenylether	93	91	64-119	2	30				
Chrysene	98	93	62-128	5	30				
Dibenz(a,h)anthracene	100	100	65-125	0	30				
Dibenzofuran	97	94	71-112	3	30				
1,2-Dichlorobenzene	82	88	66-108	8	30				
1,3-Dichlorobenzene	79	86	63-109	7	30				
1,4-Dichlorobenzene	79	86	53-113	9	30				
3,3'-Dichlorobenzidine	72	77	25-123	7	30				
2,4-Dichlorophenol	98	94	78-117	5	30				
Diethylphthalate	97	90	66-118	7	30				
2,4-Dimethylphenol	97	93	56-130	4	30				
3,5-Dimethylphenol	109	105	70-130	4	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dimethylphthalate	96	90	64-118	6	30				
4,6-Dinitro-2-methylphenol	84	80	10-148	5	30				
2,4-Dinitrophenol	77	75	20-143	2	30				
2,4-Dinitrotoluene	95	90	57-114	5	30				
2,6-Dinitrotoluene	93	93	69-123	0	30				
1,2-Diphenylhydrazine	101	97	71-129	3	30				
bis(2-Ethylhexyl)phthalate	97	93	63-122	4	30				
Fluoranthene	100	93	59-122	7	30				
Fluorene	95	91	60-125	4	30				
Hexachlorobenzene	95	94	61-111	1	30				
Hexachlorobutadiene	85	86	62-120	1	30				
Hexachlorocyclopentadiene	70	67	10-153	4	30				
Hexachloroethane	74	81	57-109	9	30				
Indeno(1,2,3-cd)pyrene	97	98	61-126	0	30				
Isophorone	93	89	51-118	4	30				
1-Methylnaphthalene	97	93	73-112	5	30				
2-Methylnaphthalene	90	87	76-114	3	30				
2-Methylphenol	100	99	47-142	2	30				
4-Methylphenol	96	93	55-126	3	30				
Naphthalene	90	90	72-116	1	30				
2-Nitroaniline	95	93	67-125	2	30				
3-Nitroaniline	94	90	59-122	5	30				
4-Nitroaniline	77	74	52-112	3	30				
Nitrobenzene	91	89	51-114	2	30				
2-Nitrophenol	91	90	74-115	2	30				
4-Nitrophenol	81	76	39-133	6	30				
N-Nitroso-di-n-propylamine	92	90	60-116	3	30				
N-Nitrosodimethylamine	80	81	47-116	2	30				
N-Nitrosodiphenylamine	98	95	86-145	3	30				
Di-n-octylphthalate	100	94	56-126	6	30				
Pentachlorophenol	86	87	17-149	1	30				
Phenanthrene	98	92	65-125	6	30				
Phenol	99	97	58-126	2	30				
Pyrene	99	98	51-151	1	30				
1,2,4-Trichlorobenzene	91	91	72-115	0	30				
2,4,5-Trichlorophenol	97	94	34-139	3	30				
2,4,6-Trichlorophenol	99	94	49-140	6	30				
Batch number: 11015SLD026	Sample number(s): 6182836-6182838,6182840-6182841 UNSPK: 6182836								
Acenaphthene	89	90	63-105	1	30				
Acenaphthylene	92	93	55-126	2	30				
Anthracene	92	94	46-136	2	30				
Benzo(a)anthracene	92	98	39-144	7	30				
Benzo(a)pyrene	112	117	34-156	5	30				
Benzo(b)fluoranthene	108	130	43-155	19	30				
Benzo(g,h,i)perylene	117	78	33-141	40*	30				
Benzo(k)fluoranthene	128	118	42-144	8	30				
Butylbenzylphthalate	109	109	73-140	0	30				
Di-n-butylphthalate	108	112	78-160	3	30				
Chrysene	97	94	29-156	3	30				
Dibenz(a,h)anthracene	126	86	41-130	38*	30				
Diethylphthalate	102	107	87-131	4	30				
Dimethylphthalate	106	114	74-118	7	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bis(2-Ethylhexyl)phthalate	113	121	39-167	7	30				
Fluoranthene	98	98	26-166	1	30				
Fluorene	96	96	45-121	0	30				
Indeno(1,2,3-cd)pyrene	122	83	21-143	38*	30				
1-Methylnaphthalene	95	94	72-123	1	30				
2-Methylnaphthalene	88	87	28-121	1	30				
Naphthalene	91	92	61-102	1	30				
N-Nitrosodimethylamine	107	99	48-113	8	30				
Di-n-octylphthalate	116	119	40-192	3	30				
Phenanthrene	92	91	12-165	0	30				
Pyrene	88	86	15-153	2	30				
Batch number: 110200023A	Sample number(s): 6182836-6182838 UNSPK: 6182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110170028A	Sample number(s): 6182836-6182838,6182840-6182841 UNSPK: 6182836								
PCB-1016	83	84	29-146	1	50				
PCB-1260	128	116	39-149	9	50				
Batch number: 110191026001A	Sample number(s): 6182836-6182841 UNSPK: 6182836 BKG: 6182836								
Antimony	34*	33*	75-125	2	20	0.193 J	0.140 J	32* (1)	20
Arsenic	113	96	75-125	5	20	4.51	4.34	4	20
Beryllium	97	81	75-125	9	20	0.700	0.666	5	20
Cadmium	99	101	75-125	2	20	0.0829 J	0.0965 J	15 (1)	20
Chromium	105	89	75-125	6	20	17.3	17.4	0	20
Cobalt	91	90	75-125	1	20	5.30	4.93	7	20
Copper	94	97	75-125	2	20	6.55	6.93	6	20
Lead	105	98	75-125	2	20	6.17	5.73	7	20
Nickel	97	91	75-125	3	20	10.7	10.6	1	20
Silver	105	101	75-125	4	20	0.0343 J	0.0502 J	38* (1)	20
Thallium	104	103	75-125	0	20	0.225	0.217	3 (1)	20
Vanadium	129*	92	75-125	8	20	33.0	32.6	1	20
Zinc	98 (2)	91 (2)	75-125	1	20	42.4	44.7	5	20
Batch number: 110191026001B	Sample number(s): 6182836-6182841 UNSPK: 6182836 BKG: 6182836								
Selenium	86	90	75-125	4	20	0.121 J	0.0586 J	70* (1)	20
Batch number: 110191026001C	Sample number(s): 6182836-6182841 UNSPK: 6182836 BKG: 6182836								
Molybdenum	103	97	75-125	5	20	0.597	0.557	7	20
Batch number: 110191026001D	Sample number(s): 6182836-6182841 UNSPK: 6182836 BKG: 6182836								
Barium	174 (2)	34 (2)	75-125	13	20	92.6	91.6	1	20
Batch number: 110195708001	Sample number(s): 6182836-6182841 UNSPK: 6182836 BKG: 6182836								
Aluminum	2916 (2)	2165 (2)	75-125	7	20	19,700	18,600	6	20
Boron	96	94	84-115	5	20	0.873 U	0.864 U	0 (1)	20
Calcium	-191 (2)	-226 (2)	75-125	3	20	4,200	2,630	46*	20
Iron	2136 (2)	1901 (2)	75-125	1	20	20,000	19,200	5	20
Lithium	104	102	82-114	4	20	20.6	20.3	1	20
Magnesium	292 (2)	253 (2)	75-125	2	20	3,770	3,650	3	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228890
Reported: 01/30/11 at 08:55 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Manganese	158 (2)	98 (2)	75-125	11	20	229		234		2	20
Phosphorus	101	114	75-125	3	20	180		185		3	20
Potassium	135*	135*	75-125	1	20	1,700		1,920		12	20
Sodium	97	97	75-125	3	20	189		153		21* (1)	20
Strontium	97	95	75-115	4	20	26.3		22.5		16	20
Tin	90	89	80-110	4	20	2.34	J	2.37	J	1 (1)	20
Titanium	249 (2)	241 (2)	75-125	1	20	1,050		1,050		0	20
Zirconium	97	96	75-125	3	20	2.68	J	2.96	J	10 (1)	20
Batch number: 110215711003	Sample number(s): 6182836-6182841 UNSPK: 6182836 BKG: 6182836										
Mercury	120	117	65-135	2	20	0.0262	J	0.0294	J	12 (1)	20
Batch number: 11019621202A	Sample number(s): 6182836-6182837,6182839-6182841 UNSPK: 6182836 BKG: 6182836										
7a Perchlorate EPA 314.0	88		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11024243202A	Sample number(s): 6182836-6182837,6182839-6182841 UNSPK: 6182836 BKG: 6182836										
3a Cr VI by EPA 7199	97		75-125			0.29	J	0.43	J	39* (1)	20
Batch number: 11025025201B	Sample number(s): 6182836-6182837,6182839-6182841 UNSPK: 6182836 BKG: 6182836										
11a Anions by 300.0 - Fluoride	69*		80-120			4.1		4.3		5 (1)	20
Batch number: 11018039401A	Sample number(s): 6182836,6182839 BKG: 6182836										
22a pH by 9045C						8.15		8.17		0	1
Batch number: 11018039401B	Sample number(s): 6182840-6182841 BKG: P182855										
22a pH by 9045C						7.25		7.25		0	1
Batch number: 11018182101B	Sample number(s): 6182836,6182839-6182841 BKG: 6182836										
Oxidation Reduction Potential						366		366		0	6
Batch number: 11014162401A	Sample number(s): 6182836-6182841 BKG: 6182836										
28a Moisture Content by 160.3						12.3		13.1		6	20
28a Moisture Content by 160.3						12.3		13.1		6	20
28a Moisture Content by 160.3						12.3		13.1		6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110141AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6182836	112	111	96	84
6182837	102	102	102	100
6182838	100	102	102	98
6182840	109	106	96	85
6182841	110	106	96	86
Blank	110	107	95	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228890
Reported: 01/30/11 at 08:55 PM

Surrogate Quality Control

LCS	104	106	101	101
MS	102	102	102	100
MSD	100	102	102	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110141AA

	Toluene-d8
6182836	99
6182837	99
6182838	99
6182840	98
6182841	99
Blank	101
LCS	100
LCSD	100
MS	99
MSD	99
Limits:	70-130

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11015SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6182836	93	91	91	85	91	87
6182837	97	93	93	89	93	88
6182838	95	92	89	86	92	87
6182840	92	92	88	88	95	89
6182841	94	93	85	88	94	88
Blank	89	89	92	87	91	85
LCS	97	95	98	92	95	90
MS	97	93	93	89	93	88
MSD	95	92	89	86	92	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11015SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6182836	96	89	82
6182837	99	87	92
6182838	111	94	88
6182840	96	85	91
6182841	97	84	88
Blank	104	89	106
LCS	85	88	86
MS	99	87	92
MSD	111	94	88
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110170028A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228890
Reported: 01/30/11 at 08:55 PM

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6182836	90	107
6182837	90	130*
6182838	86	93
6182840	96	114
6182841	75	114
Blank	89	114
LCS	93	118
LCSD	85	114
MS	90	130*
MSD	86	93
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1228890 6182836-41

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Sampler's Signature: [signature]

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs EPA 8260B	1,4-Dioxane EPA 8260SIM	*TPH-DRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPA EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tungsten EPA 6010B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-104-SA5B-SB-4.0-5.0	01.12.1	0928	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-4.5	01.12.1	0925	SOIL	NONE	5 ENCORES											X	X	X										
SL-104-SA5B-SB-9.0-10.0	01.12.1	0938	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-9.5	01.12.1	0933	SOIL	NONE	5 ENCORES											X	X	X										
SL-096-SA5B-SB-4.0-5.0	01.12.1	1148	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-096-SA5B-SB-4.5	01.12.1	1145	SOIL	NONE	5 ENCORES											X	X	X										
SL-095-SA5B-SB-4.0-5.0MS	01.12.1	0916	SOIL	NONE	5 16 oz. jars	X	X	X	X	X	X	X	X															
SL-095-SA5B-SB-4.5MS	01.12.1	0910	SOIL	NONE	12 ENCORES											X	X											
DUP16-SA5B-SB-011211	01.12.1	0924	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
DUP16-SA5B-SB-011211	01.12.1	0919	SOIL	NONE	4 ENCORES											X	X											
SL-096-SA5B-SB-2.0-3.0	01.12.1	1019	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-096-SA5B-SB-2.5	01.12.1	1015	SOIL	NONE	4 ENCORES											X	X											
SL-103-SA5B-SB-4.0-5.0	01.12.1	1224	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-4.5	01.12.1	1220	SOIL	NONE	5 ENCORES											X	X	X										
SL-103-SA5B-SB-9.0-10.0	01.12.1	1234	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-9.5	01.12.1	1230	SOIL	NONE	5 ENCORES											X	X	X										
SL-092-SA5B-SB-4.0-5.0MS	01.12.1	1040	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-092-SA5B-SB-4.5MS	01.12.1	1036	SOIL	NONE	15 ENCORES											X	X	X										
DUP17-SA5B-SB-011211	01.12.1	1048	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
DUP17-SA5B-SB-011211	01.12.1	1048	SOIL	NONE	5 ENCORES											X	X	X										
SL-072-SA5B-SB-4.0-5.0	01.12.1	1458	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-072-SA5B-SB-4.5	01.12.1	1454	SOIL	NONE	5 ENCORES											X	X	X										
SL-071-SA5B-SB-2.0-3.0	01.12.1	1549	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-071-SA5B-SB-2..5	01.12.1	1545	SOIL	NONE	5 ENCORES											X	X	X										
SL-097-SA5B-SB-4.0-5.0	01.12.1	1436	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-4.5	01.12.1	1432	SOIL	NONE	5 ENCORES											X	X	X										
SL-097-SA5B-SB-7.0-8.0	01.12.1	1447	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-7.5	01.12.1	1442	SOIL	NONE	5 ENCORES											X	X	X										
TB-011211	01.12.1	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Airbill No.(s)	Laboratory:
[signature]	1/12/2011, 16:30	[signature]	1/13/11 1926	8695 1481 9994, ...1433 0065, ...6016, ...6027	Lancaster Laboratories, Inc.
Relinquished by: (Signature)	Date/Time				No. of coolers = 4

Amended COC

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A(surface soil only)	*Herbicides EPA 8151(surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	**tpH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-104-SA5B-SB-4.0-5.0	01.12.1	0928	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-4.5	01.12.1	0925	SOIL	NONE	5 ENCORES											X	X	X											
SL-104-SA5B-SB-9.0-10.0	01.12.1	0938	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-9.5	01.12.1	0933	SOIL	NONE	5 ENCORES											X	X	X											
SL-098-SA5B-SB-4.0-5.0	01.12.1	1149	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-098-SA5B-SB-4.5	01.12.1	1145	SOIL	NONE	5 ENCORES											X	X	X											
SL-095-SA5B-SB-4.0-5.0MS	01.12.1	0916	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X	X																
SL-095-SA5B-SB-4.5MS	01.12.1	0910	SOIL	NONE	12 ENCORES											X	X												
DUP18-SA5B-QC-011211	01.12.1	0924	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
DUP18-SA5B-QC-011211	01.12.1	0919	SOIL	NONE	4 ENCORES											X	X												
SL-096-SA5B-SB-2.0-3.0	01.12.1	1019	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-096-SA5B-SB-2.5	01.12.1	1015	SOIL	NONE	4 ENCORES											X	X												
SL-103-SA5B-SB-4.0-5.0	01.12.1	1224	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-4.5	01.12.1	1220	SOIL	NONE	5 ENCORES											X	X	X											
SL-103-SA5B-SB-9.0-10.0	01.12.1	1234	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-9.5	01.12.1	1230	SOIL	NONE	5 ENCORES											X	X	X											
SL-092-SA5B-SB-4.0-5.0MS	01.12.1	1040	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-092-SA5B-SB-4.5MS	01.12.1	1038	SOIL	NONE	15 ENCORES											X	X	X											
DUP17-SA5B-QC-011211	01.12.1	1048	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
DUP17-SA5B-QC-011211	01.12.1	1048	SOIL	NONE	5 ENCORES											X	X	X											
SL-072-SA5B-SB-4.0-5.0	01.12.1	1458	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-072-SA5B-SB-4.5	01.12.1	1454	SOIL	NONE	5 ENCORES											X	X	X											
SL-071-SA5B-SB-2.0-3.0	01.12.1	1549	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-071-SA5B-SB-2.5	01.12.1	1545	SOIL	NONE	5 ENCORES											X	X	X											
SL-097-SA5B-SB-4.0-5.0	01.12.1	1436	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-4.5	01.12.1	1432	SOIL	NONE	5 ENCORES											X	X	X											
SL-097-SA5B-SB-7.0-8.0	01.12.1	1447	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-7.5	01.12.1	1442	SOIL	NONE	5 ENCORES											X	X	X											
TB-011211	01.12.1	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	1/12/2011, 16:30		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	No. of coolers =

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Friday, January 21, 2011 4:48 PM
To: Nicole Maljovec
Cc: Bloisa, Peggy; Burgesser, Todd
Subject: Revised COC
Attachments: COC_sub_&_surface_samples_01_12_11-REVISED.xls

Hi Nicole,

I found an error on the COC dated 1/12/2011. The following sample IDs have been changed. A revised copy is attached.

DUP17-SA5B-SB-011211 was changed to DUP17-SA5B-QC-011211
DUP18-SA5B-SB-011211 was changed to DUP18-SA5B-QC-011211

Sorry for the delay!

Todd, I have made the appropriate corrections in the tracking sheet and will update that for you this evening.

Thanks all!

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
Please consider the environment before printing this e-mail.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/13/2011
Group Number: 1228891
SDG: DX037
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-095-SA5B-SB-4.0-5.0 Soil	6182842
SL-095-SA5B-SB-4.0-5.0MS Soil	6182843
SL-095-SA5B-SB-4.0-5.0MSD Soil	6182844
DUP18-SA5B-QC-011211 Soil	6182845
SL-096-SA5B-SB-2.0-3.0 Soil	6182846

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182842
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182842
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0220 U	0.0220	1.14	1
11031	12378-PeCDD	40321-76-4	0.0322 JQ	0.0274	5.70	1
11031	123478-HxCDD	39227-28-6	0.0647 JBQ	0.0258	5.70	1
11031	123678-HxCDD	57653-85-7	0.169 JB	0.0266	5.70	1
11031	123789-HxCDD	19408-74-3	0.150 JBQ	0.0255	5.70	1
11031	1234678-HpCDD	35822-46-9	3.95 JB	0.0382	5.70	1
11031	OCDD	3268-87-9	43.7 B	0.0312	11.4	1
11031	2378-TCDF	51207-31-9	0.0331 U	0.0331	1.14	1
11031	12378-PeCDF	57117-41-6	0.0683 JBQ	0.0114	5.70	1
11031	23478-PeCDF	57117-31-4	0.136 JBQ	0.0109	5.70	1
11031	123478-HxCDF	70648-26-9	0.0989 JB	0.0186	5.70	1
11031	123678-HxCDF	57117-44-9	0.0410 JBQ	0.0158	5.70	1
11031	123789-HxCDF	72918-21-9	0.0688 JBQ	0.0161	5.70	1
11031	234678-HxCDF	60851-34-5	0.0715 JBQ	0.0148	5.70	1
11031	1234678-HpCDF	67562-39-4	0.758 JBQ	0.0531	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0757 JBQ	0.0645	5.70	1
11031	OCDF	39001-02-0	1.76 JB	0.0452	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	94	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182842
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182842
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/01/2011 23:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182843
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182843
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.5	B	0.0471	1.14	1
11031	12378-PeCDD	40321-76-4	119		0.0680	5.70	1
11031	123478-HxCDD	39227-28-6	120	B	0.0553	5.70	1
11031	123678-HxCDD	57653-85-7	121	B	0.0583	5.70	1
11031	123789-HxCDD	19408-74-3	120	B	0.0558	5.70	1
11031	1234678-HpCDD	35822-46-9	135	B	0.0806	5.70	1
11031	OCDD	3268-87-9	430	B	0.0969	11.4	1
11031	2378-TCDF	51207-31-9	24.8		0.0556	1.14	1
11031	12378-PeCDF	57117-41-6	124	B	0.0262	5.70	1
11031	23478-PeCDF	57117-31-4	122	B	0.0235	5.70	1
11031	123478-HxCDF	70648-26-9	123	B	0.0499	5.70	1
11031	123678-HxCDF	57117-44-9	124	B	0.0483	5.70	1
11031	123789-HxCDF	72918-21-9	122	B	0.0522	5.70	1
11031	234678-HxCDF	60851-34-5	122	B	0.0481	5.70	1
11031	1234678-HpCDF	67562-39-4	125	B	0.0888	5.70	1
11031	1234789-HpCDF	55673-89-7	124	B	0.105	5.70	1
11031	OCDF	39001-02-0	251	B	0.0639	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	107	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182843
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182843
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 00:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182844
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-095-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182844
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.4	B	0.0372	1.14	1
11031	12378-PeCDD	40321-76-4	118		0.0608	5.70	1
11031	123478-HxCDD	39227-28-6	120	B	0.0644	5.70	1
11031	123678-HxCDD	57653-85-7	120	B	0.0676	5.70	1
11031	123789-HxCDD	19408-74-3	119	B	0.0650	5.70	1
11031	1234678-HpCDD	35822-46-9	123	B	0.0611	5.70	1
11031	OCDD	3268-87-9	290	B	0.0693	11.4	1
11031	2378-TCDF	51207-31-9	24.7		0.0426	1.14	1
11031	12378-PeCDF	57117-41-6	123	B	0.0250	5.70	1
11031	23478-PeCDF	57117-31-4	121	B	0.0238	5.70	1
11031	123478-HxCDF	70648-26-9	124	B	0.0489	5.70	1
11031	123678-HxCDF	57117-44-9	123	B	0.0461	5.70	1
11031	123789-HxCDF	72918-21-9	122	B	0.0514	5.70	1
11031	234678-HxCDF	60851-34-5	124	B	0.0478	5.70	1
11031	1234678-HpCDF	67562-39-4	123	B	0.0608	5.70	1
11031	1234789-HpCDF	55673-89-7	124	B	0.0757	5.70	1
11031	OCDF	39001-02-0	245	B	0.0517	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	105	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182844
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-095-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5B-SB-4.0-5.0

LLI Sample # SW 6182844
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:16

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL095 SDG#: DX037-13MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 01:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP18-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182845
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP18 SDG#: DX037-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP18-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182845
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP18 SDG#: DX037-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0260	U	0.0260	1.15	1
11031	12378-PeCDD	40321-76-4	0.117	JQ	0.0346	5.76	1
11031	123478-HxCDD	39227-28-6	0.101	JBQ	0.0407	5.76	1
11031	123678-HxCDD	57653-85-7	0.407	JB	0.0433	5.76	1
11031	123789-HxCDD	19408-74-3	0.360	JB	0.0401	5.76	1
11031	1234678-HpCDD	35822-46-9	8.19	B	0.0506	5.76	1
11031	OCDD	3268-87-9	88.9	B	0.0381	11.5	1
11031	2378-TCDF	51207-31-9	0.105	JQ	0.0385	1.15	1
11031	12378-PeCDF	57117-41-6	0.132	JB	0.0144	5.76	1
11031	23478-PeCDF	57117-31-4	0.128	JB	0.0144	5.76	1
11031	123478-HxCDF	70648-26-9	0.149	JB	0.0229	5.76	1
11031	123678-HxCDF	57117-44-9	0.107	JBQ	0.0203	5.76	1
11031	123789-HxCDF	72918-21-9	0.149	JB	0.0225	5.76	1
11031	234678-HxCDF	60851-34-5	0.144	JB	0.0196	5.76	1
11031	1234678-HpCDF	67562-39-4	1.22	JB	0.0185	5.76	1
11031	1234789-HpCDF	55673-89-7	0.151	JB	0.0230	5.76	1
11031	OCDF	39001-02-0	3.50	JB	0.0267	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	97	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP18-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182845
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP18 SDG#: DX037-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP18-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP18-SA5B-QC-011211

LLI Sample # SW 6182845
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:24

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP18 SDG#: DX037-14FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 05:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182846
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL096 SDG#: DX037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182846
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL096 SDG#: DX037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0535 JBQ	0.0242	1.10	1
11031	12378-PeCDD	40321-76-4	0.0805 JQ	0.0265	5.51	1
11031	123478-HxCDD	39227-28-6	0.0275 JBQ	0.0172	5.51	1
11031	123678-HxCDD	57653-85-7	0.0569 JBQ	0.0181	5.51	1
11031	123789-HxCDD	19408-74-3	0.0412 JB	0.0169	5.51	1
11031	1234678-HpCDD	35822-46-9	0.273 JB	0.0296	5.51	1
11031	OCDD	3268-87-9	1.87 JB	0.0243	11.0	1
11031	2378-TCDF	51207-31-9	0.0220 J	0.0206	1.10	1
11031	12378-PeCDF	57117-41-6	0.0868 JBQ	0.00947	5.51	1
11031	23478-PeCDF	57117-31-4	0.112 JBQ	0.00925	5.51	1
11031	123478-HxCDF	70648-26-9	0.0622 JBQ	0.0146	5.51	1
11031	123678-HxCDF	57117-44-9	0.0491 JB	0.0131	5.51	1
11031	123789-HxCDF	72918-21-9	0.0573 JBQ	0.0150	5.51	1
11031	234678-HxCDF	60851-34-5	0.0629 JB	0.0133	5.51	1
11031	1234678-HpCDF	67562-39-4	0.145 JB	0.0151	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0402 JBQ	0.0194	5.51	1
11031	OCDF	39001-02-0	0.212 JBQ	0.0258	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	112	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	95	26 - 138
13C12-OCDF	112	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182846
LLI Group # 1228891
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

Submitted: 01/13/2011 09:20
Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL096 SDG#: DX037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA5B-SB-2.0-3.0

LLI Sample # SW 6182846
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:19

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Reported: 03/01/2011 19:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL096 SDG#: DX037-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 06:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11014162401A	01/14/2011 19:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228891
Reported: 03/01/11 at 07:38 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11014162401A	Sample number(s): 6182842-6182846								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11025001	Sample number(s): 6182842-6182846								
2378-TCDD	0.0273 J	0.0144	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0174 U	0.0174	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0187 J	0.00970	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0201 J	0.00980	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0241 J	0.00930	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.176 J	0.0179	5.00	ng/kg	94		70-140		
OCDD	0.416 J	0.0171	10.0	ng/kg	95		78-144		
2378-TCDF	0.0112 U	0.0112	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0248 J	0.00520	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0623 J	0.00520	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0420 J	0.00860	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0468 J	0.00750	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0478 J	0.00880	5.00	ng/kg	87		78-130		
234678-HxCDF	0.0556 J	0.00820	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.156 J	0.00660	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0445 J	0.00940	5.00	ng/kg	92		78-138		
OCDF	0.181 J	0.0162	10.0	ng/kg	86		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11014162401A	Sample number(s): 6182842-6182846 BKG: P182836								
28a Moisture Content by 160.3						12.3	13.1	6	20
Batch number: 11025001	Sample number(s): 6182842-6182846 UNSPK: 6182842								
2378-TCDD	98	98	67-158	0	25				
12378-PeCDD	104	104	70-142	0	25				
123478-HxCDD	105	106	70-164	1	25				
123678-HxCDD	106	105	76-134	1	25				
123789-HxCDD	105	104	64-162	1	25				
1234678-HpCDD	115	105	70-140	9	25				
OCDD	169*	108	78-144	39*	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228891
Reported: 03/01/11 at 07:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	109	108	75-158	1	25				
12378-PeCDF	109	108	80-134	1	25				
23478-PeCDF	107	106	68-160	1	25				
123478-HxCDF	108	109	72-134	1	25				
123678-HxCDF	108	108	84-130	1	25				
123789-HxCDF	107	107	78-130	0	25				
234678-HxCDF	107	109	70-156	2	25				
1234678-HpCDF	109	107	82-122	2	25				
1234789-HpCDF	109	109	78-138	0	25				
OCDF	110	107	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11025001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6182842	76	78	70	80	82	84
6182843	76	82	83	84	83	83
6182844	73	79	81	84	83	81
6182845	69	70	70	79	77	74
6182846	78	81	84	91	86	87
Blank	82	75	72	81	74	74
MS	76	82	83	84	83	83
MSD	73	79	81	84	83	81
OPR	69	67	67	76	68	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6182842	87	85	94	84	78	78
6182843	92	93	107	85	80	84
6182844	95	91	105	83	78	81
6182845	84	82	97	78	68	73
6182846	102	95	112	93	80	86
Blank	86	72	71	101	82	88
MS	92	93	107	85	80	84
MSD	95	91	105	83	78	81
OPR	74	61	57	86	71	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6182842	81	81	86	96	75	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228891
Reported: 03/01/11 at 07:38 PM

Surrogate Quality Control

6182843	80	81	89	102	78	81
6182844	80	80	89	102	74	79
6182845	74	74	81	97	69	74
6182846	84	85	94	112	76	86
Blank	88	88	89	90	77	83
MS	80	81	89	102	78	81
MSD	80	80	89	102	74	79
OPR	79	79	76	70	66	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1228891 6182842-46

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Sampler's Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/6.7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Diesel/Furan EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196B	Radiological Confirmation by EPA 8650 (10%)	SS ONLY: *Radiation EPA 9081A (surface soil only)	*Isotopic EPA 6151 (surface soil only)	VOCs: VOCs/EPA 82608	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Asbestos EPA 9013B	Other Instructions and Notes
SL-104-SA5B-SB-4.0-5.0	01.12.1	0928	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-4.5	01.12.1	0925	SOIL	NONE	5 ENCORES																							
SL-104-SA5B-SB-9.0-10.0	01.12.1	0936	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-9.5	01.12.1	0933	SOIL	NONE	5 ENCORES																							
SL-096-SA5B-SB-4.0-5.0	01.12.1	1149	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	
SL-096-SA5B-SB-4.5	01.12.1	1145	SOIL	NONE	5 ENCORES																							
SL-095-SA5B-SB-4.0-5.0MS	01.12.1	0916	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X	X			X	X											
SL-095-SA5B-SB-4.5MS	01.12.1	0910	SOIL	NONE	12 ENCORES																							
DUP18-SA5B-SB-011211	01.12.1	0924	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
DUP18-SA5B-SB-011211	01.12.1	0918	SOIL	NONE	4 ENCORES																							
SL-096-SA5B-SB-2.0-3.0	01.12.1	1019	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
SL-096-SA5B-SB-2.5	01.12.1	1015	SOIL	NONE	4 ENCORES																							
SL-103-SA5B-SB-4.0-5.0	01.12.1	1224	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-4.5	01.12.1	1220	SOIL	NONE	5 ENCORES											X	X	X										
SL-103-SA5B-SB-9.0-10.0	01.12.1	1234	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-9.5	01.12.1	1230	SOIL	NONE	5 ENCORES											X	X	X										
SL-092-SA5B-SB-4.0-5.0MS	01.12.1	1040	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-092-SA5B-SB-4.5MS	01.12.1	1036	SOIL	NONE	15 ENCORES											X	X	X										
DUP17-SA5B-SB-011211	01.12.1	1048	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
DUP17-SA5B-SB-011211	01.12.1	1048	SOIL	NONE	5 ENCORES											X	X	X										
SL-072-SA5B-SB-4.0-5.0	01.12.1	1458	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-072-SA5B-SB-4.5	01.12.1	1454	SOIL	NONE	5 ENCORES											X	X	X										
SL-071-SA5B-SB-2.0-3.0	01.12.1	1549	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-071-SA5B-SB-2.5	01.12.1	1545	SOIL	NONE	5 ENCORES											X	X	X										
SL-097-SA5B-SB-4.0-5.0	01.12.1	1436	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-4.5	01.12.1	1432	SOIL	NONE	5 ENCORES											X	X	X										
SL-097-SA5B-SB-7.0-8.0	01.12.1	1447	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-7.5	01.12.1	1442	SOIL	NONE	5 ENCORES											X	X	X										
TB-011211	01.12.1	0800	WATER	HCl	4-40 mL VOA VIALS																							

Relinquished by: (Signature) — Date/Time: 1/12/2011, 16:30 — Received for Laboratory by: (Signature): 1/13/11 1926

Received by: (Signature) — Date/Time:

Airbill No.(s): 8895 5431 9994, ...1432 0085, ...0016, ...0027

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 4

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A(surface soil only)	*Herbicides EPA 8151(surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-104-SA5B-SB-4.0-5.0	01.12.1	0928	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-4.5	01.12.1	0925	SOIL	NONE	5 ENCORES											X	X	X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-9.0-10.0	01.12.1	0938	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-104-SA5B-SB-9.5	01.12.1	0933	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-098-SA5B-SB-4.0-5.0	01.12.1	1149	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-098-SA5B-SB-4.5	01.12.1	1145	SOIL	NONE	5 ENCORES																							
SL-095-SA5B-SB-4.0-5.0MS	01.12.1	0916	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X	X			X	X											
SL-095-SA5B-SB-4.5MS	01.12.1	0910	SOIL	NONE	12 ENCORES																							
DUP18-SA5B-QC-011211	01.12.1	0924	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
DUP18-SA5B-QC-011211	01.12.1	0919	SOIL	NONE	4 ENCORES																							
SL-096-SA5B-SB-2.0-3.0	01.12.1	1019	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
SL-096-SA5B-SB-2.5	01.12.1	1015	SOIL	NONE	4 ENCORES														X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-4.0-5.0	01.12.1	1224	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-103-SA5B-SB-4.5	01.12.1	1220	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-9.0-10.0	01.12.1	1234	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-103-SA5B-SB-9.5	01.12.1	1230	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-092-SA5B-SB-4.0-5.0MS	01.12.1	1040	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-092-SA5B-SB-4.5MS	01.12.1	1038	SOIL	NONE	15 ENCORES														X	X	X	X	X	X	X	X	X	
DUP17-SA5B-QC-011211	01.12.1	1048	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
DUP17-SA5B-QC-011211	01.12.1	1048	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-072-SA5B-SB-4.0-5.0	01.12.1	1458	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-072-SA5B-SB-4.5	01.12.1	1454	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-071-SA5B-SB-2.0-3.0	01.12.1	1549	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-071-SA5B-SB-2..5	01.12.1	1545	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-4.0-5.0	01.12.1	1436	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-097-SA5B-SB-4.5	01.12.1	1432	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-7.0-8.0	01.12.1	1447	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X			X	X	X										
SL-097-SA5B-SB-7.5	01.12.1	1442	SOIL	NONE	5 ENCORES											X	X	X										
TB-011211	01.12.1	0800	WATER	HCl	4-40 mL VOA VIALS																							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	1/12/2011, 16:30		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	No. of coolers =

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Friday, January 21, 2011 4:48 PM
To: Nicole Maljovec
Cc: Bloisa, Peggy; Burgesser, Todd
Subject: Revised COC
Attachments: COC_sub_&_surface_samples_01_12_11-REVISED.xls

Hi Nicole,

I found an error on the COC dated 1/12/2011. The following sample IDs have been changed. A revised copy is attached.

DUP17-SA5B-SB-011211 was changed to DUP17-SA5B-QC-011211
DUP18-SA5B-SB-011211 was changed to DUP18-SA5B-QC-011211

Sorry for the delay!

Todd, I have made the appropriate corrections in the tracking sheet and will update that for you this evening.

Thanks all!

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
Please consider the environment before printing this e-mail.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/13/2011
Group Number: 1228894
SDG: DE059
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-104-SA5B-SB-4.0-5.0 Soil	6182850
SL-104-SA5B-SB-9.0-10.0 Soil	6182851
SL-098-SA5B-SB-4.0-5.0 Soil	6182852
SL-103-SA5B-SB-4.0-5.0 Soil	6182853
SL-103-SA5B-SB-9.0-10.0 Soil	6182854
SL-092-SA5B-SB-4.0-5.0 Soil	6182855
SL-092-SA5B-SB-4.0-5.0MS Soil	6182856
SL-092-SA5B-SB-4.0-5.0MSD Soil	6182857
SL-092-SA5B-SB-4.0-5.0DUP Soil	6182858
DUP17-SA5B-QC-011211 Soil	6182859
SL-072-SA5B-SB-4.0-5.0 Soil	6182860
SL-071-SA5B-SB-2.0-3.0 Soil	6182861
SL-097-SA5B-SB-4.0-5.0 Soil	6182862
SL-097-SA5B-SB-7.0-8.0 Soil	6182863
TB-011211 Water	6182864

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-104-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182850
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1044 SDG#: DE059-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.98
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.98
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.3		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.3		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.98
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.98
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.98
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.3		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.98
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.3		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.98
06192	Methylene Chloride	75-09-2	0.68	J	0.26	4.3		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.98

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182850
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1044 SDG#: DE059-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.3		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.2	J	18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1

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Sample Description: SL-104-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182850
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1044 SDG#: DE059-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	5.0		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.90	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.78	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1

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Sample Description: **SL-104-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182850
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1044 SDG#: DE059-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.7	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.83	J	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.95
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

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S1044 SDG#: DE059-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	5.2		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	27		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: **SL-104-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182850
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1044 SDG#: DE059-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		5.59	22.2		1
07914	Boron	7440-42-8	4.76	J	0.989	5.56		1
01650	Calcium	7440-70-2	6,880		6.81	22.2		1
01654	Iron	7439-89-6	21,300		5.23	22.2		1
01656	Lithium	7439-93-2	24.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,050		2.82	11.1		1
06958	Manganese	7439-96-5	300		0.0867	0.556		1
10145	Phosphorus	7723-14-0	556		0.622	11.1		1
01662	Potassium	7440-09-7	3,800		20.0	55.6		1
01667	Sodium	7440-23-5	113		41.4	111		1
07968	Strontium	7440-24-6	24.0		0.0689	0.556		1
06969	Tin	7440-31-5	2.19	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,090		0.422	1.11		1
10146	Zirconium	7440-67-7	2.43	J	0.933	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0873	J	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0871	0.436		2
06126	Barium	7440-39-3	123		0.118	0.436		2
06127	Beryllium	7440-41-7	0.838		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.198		0.0436	0.109		2
06131	Chromium	7440-47-3	27.2		0.131	0.436		2
06132	Cobalt	7440-48-4	7.79		0.0218	0.109		2
06133	Copper	7440-50-8	9.58		0.0719	0.436		2
06135	Lead	7439-92-1	9.19		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.603		0.0545	0.109		2
06139	Nickel	7440-02-0	16.0		0.109	0.436		2
06141	Selenium	7782-49-2	0.174	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0521	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.325		0.0327	0.109		2
06148	Vanadium	7440-62-2	50.9		0.0240	0.109		2
06149	Zinc	7440-66-6	73.6		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	40.4		1.8	3.3		2
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.22	1.1		1

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Sample Description: SL-104-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182850
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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S1044 SDG#: DE059-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	409		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-104-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 17:51	Laura M Krieger	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 12:05	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:23	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 17:20	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 11:27	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 19:37	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 21:36	Gregory J Drahovsky	1

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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1044 SDG#: DE059-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 12:05	Marie D John	23.95
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:20	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 06:05	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 18:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 07:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 18:41	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 15:51	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 22:45	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 13:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:05	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-104-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182850
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1044 SDG#: DE059-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:42	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 08:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 05:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 14:23	Ashley M Adams	2
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201A	01/25/2011 08:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 17:34	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:32	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201A	01/24/2011 12:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-104-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182851
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1049 SDG#: DE059-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.96
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.96
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.96
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.96
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.96
06192	Methylene Chloride	75-09-2	1.1	J	0.26	4.3		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.96

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Sample Description: SL-104-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182851
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1049 SDG#: DE059-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.29
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.3	J	18.7	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-104-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182851
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S1049 SDG#: DE059-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.84	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-104-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182851
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1049 SDG#: DE059-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Di-n-octylphthalate was detected in the method blank at a concentration of 7.4 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1

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SL-104-SA5B-SB-9.0-10.0

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S1049 SDG#: DE059-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.69	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	12		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	12		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182851
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1049 SDG#: DE059-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.54	22.0		1
07914	Boron	7440-42-8	2.61	J	0.980	5.51		1
01650	Calcium	7440-70-2	4,160		6.75	22.0		1
01654	Iron	7439-89-6	20,400		5.19	22.0		1
01656	Lithium	7439-93-2	23.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,560		2.80	11.0		1
06958	Manganese	7439-96-5	255		0.0859	0.551		1
10145	Phosphorus	7723-14-0	376		0.617	11.0		1
01662	Potassium	7440-09-7	2,610		19.8	55.1		1
01667	Sodium	7440-23-5	191		41.1	110		1
07968	Strontium	7440-24-6	28.8		0.0683	0.551		1
06969	Tin	7440-31-5	2.31	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,040		0.419	1.10		1
10146	Zirconium	7440-67-7	1.30	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.73		0.0881	0.441		2
06126	Barium	7440-39-3	119		0.119	0.441		2
06127	Beryllium	7440-41-7	0.796		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.841		0.0441	0.110		2
06131	Chromium	7440-47-3	23.9		0.132	0.441		2
06132	Cobalt	7440-48-4	7.31		0.0220	0.110		2
06133	Copper	7440-50-8	8.49		0.0734	0.445		2
06135	Lead	7439-92-1	11.3		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.683		0.0551	0.110		2
06139	Nickel	7440-02-0	15.3		0.110	0.441		2
06141	Selenium	7782-49-2	0.164	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0576	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.385		0.0330	0.110		2
06148	Vanadium	7440-62-2	42.3		0.0242	0.110		2
06149	Zinc	7440-66-6	163		1.54	8.26		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0146	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-104-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182851
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1049 SDG#: DE059-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.43	J	0.22	1.1		1
	SW-846 9012B			**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498			**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	386		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
	SW-846 9045C modified			**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.29		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-104-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011	18:13	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011	12:25	Jason M Long	20.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011	17:51	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011	19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011	19:32	Christopher M Klumpp	n.a.

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S1049 SDG#: DE059-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 17:49	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 11:43	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 20:06	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 13:02	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 12:42	Marie D John	23.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:48	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 06:47	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 19:08	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 07:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 15:46	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 16:05	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 23:02	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 01:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:17	Eric L Eby	1

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Sample Description: **SL-104-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182851
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1049 SDG#: DE059-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:43	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/20/2011 20:39	David K Beck	5
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 08:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 05:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 05:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201A	01/25/2011 10:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243202A	02/03/2011 17:53	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:34	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201A	01/24/2011 12:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE059-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.89
06192	Methylene Chloride	75-09-2	0.62	J	0.24	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Sample Description: SL-098-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE059-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	40.0		19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-098-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE059-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-098-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE059-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.6	J	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
	Di-n-octylphthalate was detected in the method blank at a concentration of 7.4 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1

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Sample Description: SL-098-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE059-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	180	J	110	570		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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Sample Description: **SL-098-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE059-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		5.67	22.6		1
07914	Boron	7440-42-8	3.01	J	1.00	5.64		1
01650	Calcium	7440-70-2	2,330		6.91	22.6		1
01654	Iron	7439-89-6	21,900		5.31	22.6		1
01656	Lithium	7439-93-2	26.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,440		2.86	11.3		1
06958	Manganese	7439-96-5	398		0.0880	0.564		1
10145	Phosphorus	7723-14-0	184		0.631	11.3		1
01662	Potassium	7440-09-7	2,010		20.3	56.4		1
01667	Sodium	7440-23-5	151		42.1	113		1
07968	Strontium	7440-24-6	21.1		0.0699	0.564		1
06969	Tin	7440-31-5	2.40	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,150		0.429	1.13		1
10146	Zirconium	7440-67-7	2.11	J	0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0651	U	0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.96		0.0868	0.434		2
06126	Barium	7440-39-3	181		0.117	0.434		2
06127	Beryllium	7440-41-7	1.02		0.0174	0.108		2
06128	Cadmium	7440-43-9	0.114		0.0434	0.108		2
06131	Chromium	7440-47-3	27.6		0.130	0.434		2
06132	Cobalt	7440-48-4	6.55		0.0217	0.108		2
06133	Copper	7440-50-8	7.70		0.0737	0.447		2
06135	Lead	7439-92-1	7.87		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.616		0.0542	0.108		2
06139	Nickel	7440-02-0	16.0		0.108	0.434		2
06141	Selenium	7782-49-2	0.0931	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0949	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.364		0.0325	0.108		2
06148	Vanadium	7440-62-2	50.3		0.0239	0.108		2
06149	Zinc	7440-66-6	61.9		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-098-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL098 SDG#: DE059-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	386		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	5.61		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-098-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 18:36	Laura M Krieger	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 12:44	Jason M Long	20.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:57	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.

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Sample Description: **SL-098-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL098 SDG#: DE059-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 17:55	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 12:00	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 20:35	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 13:33	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 13:18	Marie D John	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 17:54	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 07:30	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 19:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 07:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 13:40	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 16:20	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 23:18	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 02:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:21	Eric L Eby	1

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Sample Description: **SL-098-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182852
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL098 SDG#: DE059-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:49	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 05:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 05:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201A	01/25/2011 10:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243202A	02/03/2011 18:05	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:35	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201A	01/24/2011 12:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182853
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1034 SDG#: DE059-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.89
06192	Methylene Chloride	75-09-2	0.53	J	0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182853
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1034 SDG#: DE059-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.42
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1

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SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182853
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1034 SDG#: DE059-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.3		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	5.4		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	2.3		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.92	J	0.77	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182853
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1034 SDG#: DE059-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.0	J	0.77	1.9		1
10138	Pyrene	129-00-0	1.9	J	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.8
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

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S1034 SDG#: DE059-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.55	J	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The DCB surrogate data for the blank is outside the project QC limits. Since the recovery is within our staticistal limit of 53%-133%, the results are reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	3.0		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	8.7		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-103-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182853
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1034 SDG#: DE059-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.79	23.0		1
07914	Boron	7440-42-8	7.10		1.03	5.76		1
01650	Calcium	7440-70-2	11,800		7.06	23.0		1
01654	Iron	7439-89-6	27,100		5.43	23.0		1
01656	Lithium	7439-93-2	26.3		0.25	2.3		1
01657	Magnesium	7439-95-4	6,620		2.93	11.5		1
06958	Manganese	7439-96-5	350		0.0899	0.576		1
10145	Phosphorus	7723-14-0	567		0.645	11.5		1
01662	Potassium	7440-09-7	4,740		20.7	57.6		1
01667	Sodium	7440-23-5	116		43.0	115		1
07968	Strontium	7440-24-6	35.4		0.0714	0.576		1
06969	Tin	7440-31-5	2.25	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,210		0.438	1.15		1
10146	Zirconium	7440-67-7	3.19	J	0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.197	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.09		0.0895	0.447		2
06126	Barium	7440-39-3	132		0.121	0.447		2
06127	Beryllium	7440-41-7	0.866		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.243		0.0447	0.112		2
06131	Chromium	7440-47-3	31.8		0.134	0.447		2
06132	Cobalt	7440-48-4	9.23		0.0224	0.112		2
06133	Copper	7440-50-8	11.5		0.0745	0.452		2
06135	Lead	7439-92-1	12.3		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.558		0.0559	0.112		2
06139	Nickel	7440-02-0	18.4		0.112	0.447		2
06141	Selenium	7782-49-2	0.193	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0454	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.355		0.0336	0.112		2
06148	Vanadium	7440-62-2	59.8		0.0246	0.112		2
06149	Zinc	7440-66-6	84.7		0.626	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	22.6		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182853
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1034 SDG#: DE059-04

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.21	U	0.21	0.57		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	445		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.45		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	13.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 18:58	Laura M Krieger	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 13:04	Jason M Long	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 18:30	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 12:17	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 21:04	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 22:09	Gregory J Drahovsky	1

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Sample Description: SL-103-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182853
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1034 SDG#: DE059-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 13:55	Marie D John	20.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:30	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 08:12	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 19:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 08:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 16:11	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 16:35	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/14/2011 23:35	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 12:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:25	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/20/2011 20:41	David K Beck	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2

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Sample Description: **SL-103-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182853
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1034 SDG#: DE059-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:51	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 05:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 05:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201A	01/25/2011 11:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243202A	02/03/2011 18:18	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:38	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201A	01/24/2011 12:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1039 SDG#: DE059-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.7		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.84
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.8		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.8		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.7		0.84
06192	Methylene Chloride	75-09-2	0.96	J	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.84

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Sample Description: SL-103-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1039 SDG#: DE059-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-103-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1039 SDG#: DE059-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.94	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	26		6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1039 SDG#: DE059-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
	Di-n-octylphthalate was detected in the method blank at a concentration of 7.4 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.98
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
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S1039 SDG#: DE059-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	1.9		1
10225	PCB-1242	53469-21-9	7.5		0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	1.1	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	1.3	J	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

The DCB surrogate data for the blank is outside the project QC limits. Since the recovery is within our staticistal limit of 53%-133%, the results are reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	7.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	18		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	150	J	110	570		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-103-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
LLI Group # 1228894
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

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S1039 SDG#: DE059-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.76	22.9		1
07914	Boron	7440-42-8	2.32	J	1.02	5.73		1
01650	Calcium	7440-70-2	3,880		7.02	22.9		1
01654	Iron	7439-89-6	20,000		5.40	22.9		1
01656	Lithium	7439-93-2	25.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,460		2.91	11.5		1
06958	Manganese	7439-96-5	280		0.0893	0.573		1
10145	Phosphorus	7723-14-0	395		0.641	11.5		1
01662	Potassium	7440-09-7	2,880		20.6	57.3		1
01667	Sodium	7440-23-5	160		42.7	115		1
07968	Strontium	7440-24-6	20.9		0.0710	0.573		1
06969	Tin	7440-31-5	2.40	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,140		0.435	1.15		1
10146	Zirconium	7440-67-7	1.69	J	0.962	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0967	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.44		0.0873	0.436		2
06126	Barium	7440-39-3	107		0.118	0.436		2
06127	Beryllium	7440-41-7	0.727		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.572		0.0436	0.109		2
06131	Chromium	7440-47-3	24.4		0.131	0.436		2
06132	Cobalt	7440-48-4	7.44		0.0218	0.109		2
06133	Copper	7440-50-8	9.38		0.0749	0.454		2
06135	Lead	7439-92-1	9.93		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.770		0.0545	0.109		2
06139	Nickel	7440-02-0	14.5		0.109	0.436		2
06141	Selenium	7782-49-2	0.144	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0293	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.334		0.0327	0.109		2
06148	Vanadium	7440-62-2	45.9		0.0240	0.109		2
06149	Zinc	7440-66-6	103		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.0		0.92	1.7		1

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Sample Description: SL-103-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1039 SDG#: DE059-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	373		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	12.7		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 19:21	Laura M Krieger	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 13:24	Jason M Long	20.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1039 SDG#: DE059-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 18:26	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 12:34	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 21:32	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 14:37	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 14:31	Marie D John	22.98
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:25	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 08:54	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 19:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 08:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 18:16	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 16:50	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 00:40	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 07:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:29	Eric L Eby	1

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Sample Description: **SL-103-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182854
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1039 SDG#: DE059-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:53	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 08:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 05:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 05:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201A	01/25/2011 11:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 18:24	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:39	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201A	01/24/2011 12:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101B	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-092-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182855
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.95
06192	Methylene Chloride	75-09-2	0.76	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-092-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182855
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.6	J	18.9	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

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Sample Description: SL-092-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182855
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.93	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182855
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.7	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Di-n-octylphthalate was detected in the method blank at a concentration of 7.4 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.89
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

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SL092 SDG#: DE059-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.77	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.65	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	7.3		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	23		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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Sample Description: SL-092-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182855
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.52	22.0		1
07914	Boron	7440-42-8	2.20	J	0.977	5.49		1
01650	Calcium	7440-70-2	4,170		6.73	22.0		1
01654	Iron	7439-89-6	24,100		5.17	22.0		1
01656	Lithium	7439-93-2	28.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,190		2.79	11.0		1
06958	Manganese	7439-96-5	300		0.0857	0.549		1
10145	Phosphorus	7723-14-0	407		0.615	11.0		1
01662	Potassium	7440-09-7	2,870		19.8	54.9		1
01667	Sodium	7440-23-5	188		41.0	110		1
07968	Strontium	7440-24-6	21.7		0.0681	0.549		1
06969	Tin	7440-31-5	2.42	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,190		0.417	1.10		1
10146	Zirconium	7440-67-7	0.949	J	0.923	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.72		0.0905	0.452		2
06126	Barium	7440-39-3	104		0.122	0.452		2
06127	Beryllium	7440-41-7	0.623		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.179		0.0452	0.113		2
06131	Chromium	7440-47-3	19.6		0.136	0.452		2
06132	Cobalt	7440-48-4	6.29		0.0226	0.113		2
06133	Copper	7440-50-8	13.8		0.0725	0.439		2
06135	Lead	7439-92-1	5.83		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.471		0.0566	0.113		2
06139	Nickel	7440-02-0	11.9		0.113	0.452		2
06141	Selenium	7782-49-2	0.118	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0259	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.395		0.0339	0.113		2
06148	Vanadium	7440-62-2	37.7		0.0249	0.113		2
06149	Zinc	7440-66-6	69.2		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.2		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182855
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Project Name: SSFL Area IV Collocated Soil Sampling

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SL092 SDG#: DE059-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	380		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	11.6		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-092-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 19:43	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 13:43	Jason M Long	22.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:02	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.

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SL092 SDG#: DE059-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 18:46	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 08:04	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 18:11	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 15:09	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 15:08	Marie D John	21.89
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:45	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 09:37	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 19:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 08:39	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 17:01	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 17:04	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 00:57	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 07:55	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 11:41	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-092-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182855
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 06:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:30	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 06:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 06:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 06:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 08:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 04:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 04:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/20/2011 17:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 18:36	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:41	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101C	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-092-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	220	6.2	7.4		0.82
06192	Benzene	71-43-2	18	0.09	3.7		0.82
06192	Bromobenzene	108-86-1	15	0.12	3.7		0.82
06192	Bromochloromethane	74-97-5	19	0.31	3.7		0.82
06192	Bromodichloromethane	75-27-4	17	0.07	3.7		0.82
06192	Bromoform	75-25-2	16	0.37	3.7		0.82
06192	Bromomethane	74-83-9	13	0.23	3.7		0.82
06192	2-Butanone	78-93-3	150	1.1	7.4		0.82
06192	n-Butylbenzene	104-51-8	10	0.11	3.7		0.82
06192	sec-Butylbenzene	135-98-8	11	0.06	3.7		0.82
06192	tert-Butylbenzene	98-06-6	12	0.15	3.7		0.82
06192	Carbon Tetrachloride	56-23-5	19	0.13	3.7		0.82
06192	Chlorobenzene	108-90-7	15	0.10	3.7		0.82
06192	Chloroethane	75-00-3	13	0.12	3.7		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	13	0.28	3.7		0.82
06192	Chloroform	67-66-3	18	0.11	3.7		0.82
06192	Chloromethane	74-87-3	14	0.31	3.7		0.82
06192	2-Chlorotoluene	95-49-8	13	0.13	3.7		0.82
06192	4-Chlorotoluene	106-43-4	13	0.13	3.7		0.82
06192	Chlorotrifluoroethene	79-38-9	25	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	12	0.65	3.7		0.82
06192	Dibromochloromethane	124-48-1	17	0.18	3.7		0.82
06192	1,2-Dibromoethane	106-93-4	16	0.16	3.7		0.82
06192	Dibromomethane	74-95-3	17	0.22	3.7		0.82
06192	1,2-Dichlorobenzene	95-50-1	14	0.08	3.7		0.82
06192	1,3-Dichlorobenzene	541-73-1	13	0.11	3.7		0.82
06192	1,4-Dichlorobenzene	106-46-7	14	0.15	3.7		0.82
06192	Dichlorodifluoromethane	75-71-8	15	0.11	3.7		0.82
06192	1,1-Dichloroethane	75-34-3	18	0.09	3.7		0.82
06192	1,2-Dichloroethane	107-06-2	17	0.14	3.7		0.82
06192	1,1-Dichloroethene	75-35-4	19	0.36	3.7		0.82
06192	cis-1,2-Dichloroethene	156-59-2	18	0.18	3.7		0.82
06192	trans-1,2-Dichloroethene	156-60-5	19	0.11	3.7		0.82
06192	1,2-Dichloropropane	78-87-5	17	0.16	3.7		0.82
06192	1,3-Dichloropropane	142-28-9	16	0.07	3.7		0.82
06192	2,2-Dichloropropane	594-20-7	18	0.16	3.7		0.82
06192	1,1-Dichloropropene	563-58-6	17	0.12	3.7		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	14	0.15	3.7		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	14	0.16	3.7		0.82
06192	Ethylbenzene	100-41-4	14	0.06	3.7		0.82
06192	Freon 113	76-13-1	20	0.10	3.7		0.82
06192	Freon 133a	75-88-7	19	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	9.6	0.13	3.7		0.82
06192	2-Hexanone	591-78-6	61	1.5	7.4		0.82
06192	Isopropylbenzene	98-82-8	12	0.06	3.7		0.82
06192	p-Isopropyltoluene	99-87-6	11	0.10	3.7		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	16	0.19	3.7		0.82
06192	4-Methyl-2-pentanone	108-10-1	52	0.36	7.4		0.82
06192	Methylene Chloride	75-09-2	17	0.22	3.7		0.82
06192	n-Propylbenzene	103-65-1	12	0.06	3.7		0.82

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Sample Description: SL-092-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	14		0.09	3.7		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	17		0.10	3.7		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	15		0.21	3.7		0.82
06192	Tetrachloroethene	127-18-4	17		0.18	3.7		0.82
06192	Toluene	108-88-3	16		0.07	3.7		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	10		0.13	3.7		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	9.4		0.17	3.7		0.82
06192	1,1,1-Trichloroethane	71-55-6	18		0.18	3.7		0.82
06192	1,1,2-Trichloroethane	79-00-5	17		0.25	3.7		0.82
06192	Trichloroethene	79-01-6	16		0.14	3.7		0.82
06192	Trichlorofluoromethane	75-69-4	17		0.27	3.7		0.82
06192	1,2,3-Trichloropropane	96-18-4	15		0.31	3.7		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	12		0.37	3.7		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	12		0.09	3.7		0.82
06192	Vinyl Chloride	75-01-4	15		0.18	3.7		0.82
06192	m+p-Xylene	179601-23-1	28		0.16	3.7		0.82
06192	o-Xylene	95-47-6	13		0.16	3.7		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		5.1	15		22.64
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	717		18.9	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,100		190	570		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	3,400	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	550	J	190	570		1
04688	Benzyl alcohol	100-51-6	1,900		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,700		19	190		1
04688	Di-n-butylphthalate	84-74-2	2,000		19	190		1
04688	Carbazole	86-74-8	2,000		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190		1
04688	4-Chloroaniline	106-47-8	1,100		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,900		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1

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Sample Description: **SL-092-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,900	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	19	190		1
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	960	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000	38	190		1
04688	Dimethylphthalate	131-11-3	1,900	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	2,200	190	570		1
04688	2,4-Dinitrophenol	51-28-5	4,100	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	19	380		1
04688	Fluoranthene	206-44-0	2,200	19	190		1
04688	Fluorene	86-73-7	1,800	19	190		1
04688	Hexachlorobenzene	118-74-1	1,900	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,600	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,500	190	570		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,900	38	190		1
04688	4-Methylphenol	106-44-5	1,900	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,800	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	75	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	1,500	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	2,100	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	19	190		1
04688	Pentachlorophenol	87-86-5	1,800	190	570		1
04688	Phenanthrene	85-01-8	1,900	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1

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Sample Description: SL-092-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,700		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.75	1.9		1
10138	Acenaphthylene	208-96-8	32		0.38	1.9		1
10138	Anthracene	120-12-7	33		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	34		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	42		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	49		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	19		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	49		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	39		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	37		6.8	20		1
10138	Chrysene	218-01-9	33		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	26		0.75	1.9		1
10138	Diethylphthalate	84-66-2	35		6.8	20		1
10138	Dimethylphthalate	131-11-3	35		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.8	20		1
10138	Fluoranthene	206-44-0	35		0.75	1.9		1
10138	Fluorene	86-73-7	35		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	32		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	29		0.75	1.9		1
10138	Naphthalene	91-20-3	32		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	32		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	66		6.8	20		1
10138	Phenanthrene	85-01-8	32		0.75	1.9		1
10138	Pyrene	129-00-0	32		0.75	1.9		1

Di-n-octylphthalate was detected in the method blank at a concentration of 7.4 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.5		0.2	1		21.26
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,400		45	140	10000000	1

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Sample Description: SL-092-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	2,400		45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,500		45	140	10000000	1
10132	HMX	2691-41-0	2,200		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,400		45	140	10000000	1
10132	Nitroglycerin	55-63-0	52,000		900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,400		90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,400		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,400		90	140	10000000	1
10132	PETN	78-11-5	62,000		900	2,700	10000000	1
10132	RDX	121-82-4	2,400		57	140	10000000	1
10132	Tetryl	479-45-8	2,300		69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,500		45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,300		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	19		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	24		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.85	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.7		0.45	1.4		1

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SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
LLI Group # 1228894
Account # 13013

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SL092 SDG#: DE059-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	9.4		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	22		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.62	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,100		110	570		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	110		5.7	14		1
08283	Ethylene glycol	107-21-1	150		5.7	14		1
08283	Propylene glycol	57-55-6	140		5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	J	1.6	4.0		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	4.0		1
10318	p-Terphenyl	92-94-4	1.4	J	1.4	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.42	21.5		1
07914	Boron	7440-42-8	217		0.959	5.39		1
01650	Calcium	7440-70-2	3,390		6.60	21.5		1
01654	Iron	7439-89-6	19,900		5.07	21.5		1
01656	Lithium	7439-93-2	130		0.24	2.2		1
01657	Magnesium	7439-95-4	4,530		2.74	10.8		1
06958	Manganese	7439-96-5	332		0.0840	0.539		1
10145	Phosphorus	7723-14-0	443		0.603	10.8		1
01662	Potassium	7440-09-7	4,210		19.4	53.9		1
01667	Sodium	7440-23-5	1,240		40.2	108		1
07968	Strontium	7440-24-6	125		0.0668	0.539		1
06969	Tin	7440-31-5	377		1.08	10.8		1
06970	Titanium	7440-32-6	1,310		0.409	1.08		1
10146	Zirconium	7440-67-7	105		0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.550		0.0659	0.220		2

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SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

SL092 SDG#: DE059-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.11	0.0879	0.439		2
06126	Barium	7440-39-3	121	0.119	0.439		2
06127	Beryllium	7440-41-7	1.62	0.0176	0.110		2
06128	Cadmium	7440-43-9	1.81	0.0439	0.110		2
06131	Chromium	7440-47-3	34.2	0.132	0.439		2
06132	Cobalt	7440-48-4	67.6	0.0220	0.110		2
06133	Copper	7440-50-8	17.3	0.0725	0.439		2
06135	Lead	7439-92-1	12.8	0.0114	0.220		2
06138	Molybdenum	7439-98-7	13.6	0.0549	0.110		2
06139	Nickel	7440-02-0	24.8	0.110	0.439		2
06141	Selenium	7782-49-2	2.58	0.0439	0.439		2
06142	Silver	7440-22-4	14.0	0.0132	0.110		2
06145	Thallium	7440-28-0	0.921	0.0329	0.110		2
06148	Vanadium	7440-62-2	53.0	0.0242	0.110		2
06149	Zinc	7440-66-6	88.7	0.615	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.214	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.7	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	17.2	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	565	10.2	33.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	41.9	1.1	5.7		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	6.0	0.20	0.56		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-092-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
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SL092 SDG#: DE059-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 20:06	Laura M Krieger	0.82
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 20:50	Laura M Krieger	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 14:03	Jason M Long	22.64
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 18:41	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 08:22	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 18:40	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 15:42	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 15:44	Marie D John	21.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:40	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 10:19	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 19:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 08:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 17:26	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 17:19	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 01:13	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 08:40	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1

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Sample Description: **SL-092-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
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SL092 SDG#: DE059-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 11:54	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/20/2011 20:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:36	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 04:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 04:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/20/2011 17:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 18:49	Ashley M Adams	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:43	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-092-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182856
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-092-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	360	9.4	11		1.24
06192	Benzene	71-43-2	27	0.14	5.6		1.24
06192	Bromobenzene	108-86-1	21	0.18	5.6		1.24
06192	Bromochloromethane	74-97-5	27	0.46	5.6		1.24
06192	Bromodichloromethane	75-27-4	26	0.11	5.6		1.24
06192	Bromoform	75-25-2	26	0.56	5.6		1.24
06192	Bromomethane	74-83-9	22	0.35	5.6		1.24
06192	2-Butanone	78-93-3	240	1.7	11		1.24
06192	n-Butylbenzene	104-51-8	13	0.17	5.6		1.24
06192	sec-Butylbenzene	135-98-8	13	0.08	5.6		1.24
06192	tert-Butylbenzene	98-06-6	14	0.23	5.6		1.24
06192	Carbon Tetrachloride	56-23-5	28	0.20	5.6		1.24
06192	Chlorobenzene	108-90-7	22	0.15	5.6		1.24
06192	Chloroethane	75-00-3	22	0.18	5.6		1.24
06192	2-Chloroethyl Vinyl Ether	110-75-8	21	0.42	5.6		1.24
06192	Chloroform	67-66-3	28	0.17	5.6		1.24
06192	Chloromethane	74-87-3	26	0.46	5.6		1.24
06192	2-Chlorotoluene	95-49-8	18	0.20	5.6		1.24
06192	4-Chlorotoluene	106-43-4	18	0.20	5.6		1.24
06192	Chlorotrifluoroethene	79-38-9	25	0.45	4.5		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	21	0.99	5.6		1.24
06192	Dibromochloromethane	124-48-1	27	0.28	5.6		1.24
06192	1,2-Dibromoethane	106-93-4	26	0.24	5.6		1.24
06192	Dibromomethane	74-95-3	27	0.34	5.6		1.24
06192	1,2-Dichlorobenzene	95-50-1	21	0.13	5.6		1.24
06192	1,3-Dichlorobenzene	541-73-1	19	0.17	5.6		1.24
06192	1,4-Dichlorobenzene	106-46-7	19	0.23	5.6		1.24
06192	Dichlorodifluoromethane	75-71-8	22	0.17	5.6		1.24
06192	1,1-Dichloroethane	75-34-3	28	0.14	5.6		1.24
06192	1,2-Dichloroethane	107-06-2	27	0.21	5.6		1.24
06192	1,1-Dichloroethene	75-35-4	30	0.55	5.6		1.24
06192	cis-1,2-Dichloroethene	156-59-2	29	0.27	5.6		1.24
06192	trans-1,2-Dichloroethene	156-60-5	28	0.17	5.6		1.24
06192	1,2-Dichloropropane	78-87-5	26	0.24	5.6		1.24
06192	1,3-Dichloropropane	142-28-9	25	0.11	5.6		1.24
06192	2,2-Dichloropropane	594-20-7	28	0.24	5.6		1.24
06192	1,1-Dichloropropene	563-58-6	24	0.18	5.6		1.24
06192	cis-1,3-Dichloropropene	10061-01-5	22	0.23	5.6		1.24
06192	trans-1,3-Dichloropropene	10061-02-6	22	0.24	5.6		1.24
06192	Ethylbenzene	100-41-4	18	0.08	5.6		1.24
06192	Freon 113	76-13-1	31	0.15	5.6		1.24
06192	Freon 133a	75-88-7	18	0.45	4.5		0.8
06192	Hexachlorobutadiene	87-68-3	13	0.20	5.6		1.24
06192	2-Hexanone	591-78-6	99	2.3	11		1.24
06192	Isopropylbenzene	98-82-8	15	0.08	5.6		1.24
06192	p-Isopropyltoluene	99-87-6	14	0.15	5.6		1.24
06192	Methyl Tertiary Butyl Ether	1634-04-4	26	0.30	5.6		1.24
06192	4-Methyl-2-pentanone	108-10-1	86	0.55	11		1.24
06192	Methylene Chloride	75-09-2	28	0.34	5.6		1.24
06192	n-Propylbenzene	103-65-1	16	0.1	5.6		1.24

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Sample Description: SL-092-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20		0.14	5.6		1.24
06192	1,1,1,2-Tetrachloroethane	630-20-6	26		0.15	5.6		1.24
06192	1,1,2,2-Tetrachloroethane	79-34-5	24		0.32	5.6		1.24
06192	Tetrachloroethene	127-18-4	22		0.28	5.6		1.24
06192	Toluene	108-88-3	23		0.11	5.6		1.24
06192	1,2,3-Trichlorobenzene	87-61-6	17		0.20	5.6		1.24
06192	1,2,4-Trichlorobenzene	120-82-1	15		0.25	5.6		1.24
06192	1,1,1-Trichloroethane	71-55-6	28		0.28	5.6		1.24
06192	1,1,2-Trichloroethane	79-00-5	27		0.38	5.6		1.24
06192	Trichloroethene	79-01-6	24		0.21	5.6		1.24
06192	Trichlorofluoromethane	75-69-4	26		0.41	5.6		1.24
06192	1,2,3-Trichloropropane	96-18-4	25		0.46	5.6		1.24
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.56	5.6		1.24
06192	1,3,5-Trimethylbenzene	108-67-8	16		0.14	5.6		1.24
06192	Vinyl Chloride	75-01-4	24		0.28	5.6		1.24
06192	m+p-Xylene	179601-23-1	38		0.24	5.6		1.24
06192	o-Xylene	95-47-6	18		0.24	5.6		1.24
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	100		4.3	13		19.11
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	773		18.9	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,200		190	570		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	3,900		1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	480	J	190	570		1
04688	Benzyl alcohol	100-51-6	1,900		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	2,000		19	190		1
04688	Carbazole	86-74-8	2,000		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		38	190		1
04688	4-Chloroaniline	106-47-8	1,200		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1

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Sample Description: **SL-092-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	2,000	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700	19	190		1
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700	38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000	38	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	2,000	190	570		1
04688	2,4-Dinitrophenol	51-28-5	3,300	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	19	380		1
04688	Fluoranthene	206-44-0	2,100	19	190		1
04688	Fluorene	86-73-7	1,800	19	190		1
04688	Hexachlorobenzene	118-74-1	2,000	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,600	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,700	190	570		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,800	38	190		1
04688	4-Methylphenol	106-44-5	1,900	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,800	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	75	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	2,000	19	190		1
04688	4-Nitrophenol	100-02-7	1,500	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	2,200	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	19	190		1
04688	Pentachlorophenol	87-86-5	1,600	190	570		1
04688	Phenanthrene	85-01-8	1,900	19	190		1
04688	Phenol	108-95-2	1,900	19	190		1

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Sample Description: SL-092-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,700		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.75	1.9		1
10138	Acenaphthylene	208-96-8	34		0.38	1.9		1
10138	Anthracene	120-12-7	35		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	45		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	54		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	17		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	55		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	41		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	39		6.8	20		1
10138	Chrysene	218-01-9	35		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	25		0.75	1.9		1
10138	Diethylphthalate	84-66-2	37		6.8	20		1
10138	Dimethylphthalate	131-11-3	37		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.8	20		1
10138	Fluoranthene	206-44-0	37		0.75	1.9		1
10138	Fluorene	86-73-7	36		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	35		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	31		0.75	1.9		1
10138	Naphthalene	91-20-3	35		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	75		6.8	20		1
10138	Phenanthrene	85-01-8	34		0.75	1.9		1
10138	Pyrene	129-00-0	34		0.75	1.9		1
	Di-n-octylphthalate was detected in the method blank at a concentration of 7.4 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.3		0.2	1		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,300		45	140	10000000	1

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Sample Description: SL-092-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Dinitrotoluene	121-14-2	2,300		45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,400		45	140	10000000	1
10132	HMX	2691-41-0	2,000		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,300		45	140	10000000	1
10132	Nitroglycerin	55-63-0	49,000		900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,300		90	140	10000000	1
10132	PETN	78-11-5	58,000		900	2,700	10000000	1
10132	RDX	121-82-4	2,300		57	140	10000000	1
10132	Tetryl	479-45-8	2,400		69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,500		45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	5,400		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	17		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	26		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.94	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.5		0.45	1.4		1

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Sample Description: SL-092-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	4.6		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	10		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.68	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,800		110	570		1
10501	Isopropanol	67-63-0	2,100		110	570		1
10501	Methanol	67-56-1	1,600		110	570		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	180		5.7	14		1
08283	Ethylene glycol	107-21-1	130		5.7	14		1
08283	Propylene glycol	57-55-6	120		5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	J	1.6	4.0		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	4.0		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.47	21.8		1
07914	Boron	7440-42-8	220		0.968	5.44		1
01650	Calcium	7440-70-2	3,860		6.67	21.8		1
01654	Iron	7439-89-6	21,000		5.12	21.8		1
01656	Lithium	7439-93-2	133		0.24	2.2		1
01657	Magnesium	7439-95-4	4,690		2.76	10.9		1
06958	Manganese	7439-96-5	346		0.0848	0.544		1
10145	Phosphorus	7723-14-0	416		0.609	10.9		1
01662	Potassium	7440-09-7	4,200		19.6	54.4		1
01667	Sodium	7440-23-5	1,260		40.6	109		1
07968	Strontium	7440-24-6	129		0.0674	0.544		1
06969	Tin	7440-31-5	380		1.09	10.9		1
06970	Titanium	7440-32-6	1,390		0.413	1.09		1
10146	Zirconium	7440-67-7	107		0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.573		0.0659	0.220		2

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Sample Description: **SL-092-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.68	0.0879	0.439		2
06126	Barium	7440-39-3	126	0.119	0.439		2
06127	Beryllium	7440-41-7	1.78	0.0176	0.110		2
06128	Cadmium	7440-43-9	1.57	0.0439	0.110		2
06131	Chromium	7440-47-3	36.4	0.132	0.439		2
06132	Cobalt	7440-48-4	68.2	0.0220	0.110		2
06133	Copper	7440-50-8	17.7	0.0732	0.444		2
06135	Lead	7439-92-1	10.9	0.0114	0.220		2
06138	Molybdenum	7439-98-7	13.7	0.0549	0.110		2
06139	Nickel	7440-02-0	25.9	0.110	0.439		2
06141	Selenium	7782-49-2	2.77	0.0439	0.439		2
06142	Silver	7440-22-4	13.8	0.0132	0.110		2
06145	Thallium	7440-28-0	0.859	0.0329	0.110		2
06148	Vanadium	7440-62-2	56.8	0.0242	0.110		2
06149	Zinc	7440-66-6	90.3	0.615	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.190	0.0030	0.105		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-092-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 20:28	Laura M Krieger	1.24
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 21:13	Laura M Krieger	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 14:22	Jason M Long	19.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:38	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.

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Sample Description: **SL-092-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Chantilly VA 20151

SL092 SDG#: DE059-06MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:32	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 18:36	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 08:39	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 19:09	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 16:14	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 16:21	Marie D John	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 18:35	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 11:02	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 20:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 09:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 17:51	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 17:34	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 01:30	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 09:25	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1

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Sample Description: **SL-092-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182857
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
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CDM Federal Programs Corp.
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SL092 SDG#: DE059-06MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 11:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:38	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-092-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182858
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.52	22.0		1
07914	Boron	7440-42-8	2.11	J	0.977	5.49		1
01650	Calcium	7440-70-2	3,730		6.73	22.0		1
01654	Iron	7439-89-6	21,300		5.17	22.0		1
01656	Lithium	7439-93-2	31.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,290		2.79	11.0		1
06958	Manganese	7439-96-5	259		0.0857	0.549		1
10145	Phosphorus	7723-14-0	418		0.615	11.0		1
01662	Potassium	7440-09-7	2,760		19.8	54.9		1
01667	Sodium	7440-23-5	181		41.0	110		1
07968	Strontium	7440-24-6	21.2		0.0681	0.549		1
06969	Tin	7440-31-5	2.47	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,140		0.417	1.10		1
10146	Zirconium	7440-67-7	1.25	J	0.923	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0653	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.39		0.0870	0.435		2
06126	Barium	7440-39-3	105		0.117	0.435		2
06127	Beryllium	7440-41-7	0.551		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.185		0.0435	0.109		2
06131	Chromium	7440-47-3	18.4		0.131	0.435		2
06132	Cobalt	7440-48-4	5.78		0.0218	0.109		2
06133	Copper	7440-50-8	8.13		0.0739	0.448		2
06135	Lead	7439-92-1	5.09		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.420		0.0544	0.109		2
06139	Nickel	7440-02-0	10.9		0.109	0.435		2
06141	Selenium	7782-49-2	0.0849	J	0.0435	0.435		2
06142	Silver	7440-22-4	0.0242	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.355		0.0326	0.109		2
06148	Vanadium	7440-62-2	36.4		0.0239	0.109		2
06149	Zinc	7440-66-6	66.2		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.5		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-092-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182858
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	380		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	12.1		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 11:49	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 06:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182858
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL092 SDG#: DE059-06DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:34	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 06:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 06:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 06:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 04:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 04:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/20/2011 17:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 19:38	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:42	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182101C	01/18/2011 10:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039401B	01/18/2011 10:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP17-SA5B-QC-011211 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE059-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.9
06192	Methylene Chloride	75-09-2	1.2	J	0.24	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP17-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE059-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		19.17
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	34.0	J	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

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Sample Description: **DUP17-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE059-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.46	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: **DUP17-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE059-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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DUP17 SDG#: DE059-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.69	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.69	J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The DCB surrogate data for the blank is outside the QC limits. Since the recovery is within our limit of 53%-133%, the results are reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.6		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	4.3		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	140	J	110	560		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.7	U	6.7	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.
Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Sample Description: **DUP17-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE059-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.48	21.8		1
07914	Boron	7440-42-8	2.57	J	0.970	5.45		1
01650	Calcium	7440-70-2	3,130		6.68	21.8		1
01654	Iron	7439-89-6	19,600		5.13	21.8		1
01656	Lithium	7439-93-2	22.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,200		2.77	10.9		1
06958	Manganese	7439-96-5	288		0.0850	0.545		1
10145	Phosphorus	7723-14-0	295		0.610	10.9		1
01662	Potassium	7440-09-7	2,670		19.6	54.5		1
01667	Sodium	7440-23-5	192		40.6	109		1
07968	Strontium	7440-24-6	21.0		0.0676	0.545		1
06969	Tin	7440-31-5	2.31	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,070		0.414	1.09		1
10146	Zirconium	7440-67-7	1.68	J	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.94		0.0898	0.449		2
06126	Barium	7440-39-3	112		0.121	0.449		2
06127	Beryllium	7440-41-7	0.769		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.349		0.0449	0.112		2
06131	Chromium	7440-47-3	24.2		0.135	0.449		2
06132	Cobalt	7440-48-4	7.20		0.0224	0.112		2
06133	Copper	7440-50-8	8.47		0.0733	0.444		2
06135	Lead	7439-92-1	7.45		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.598		0.0561	0.112		2
06139	Nickel	7440-02-0	14.7		0.112	0.449		2
06141	Selenium	7782-49-2	0.144	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0461	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.307		0.0337	0.112		2
06148	Vanadium	7440-62-2	46.0		0.0247	0.112		2
06149	Zinc	7440-66-6	72.3		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.9		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **DUP17-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

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14420 Albemarle Point Place
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DUP17 SDG#: DE059-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	390		10.0	10.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	10.9		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 21:35	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 14:42	Jason M Long	19.17
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:08	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 19:06	Christopher M Klumpp	n.a.

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Sample Description: DUP17-SA5B-QC-011211 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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DUP17 SDG#: DE059-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 12:50	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 22:01	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 22:41	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 16:57	Marie D John	23.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:06	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 11:44	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 20:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 09:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 16:36	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 17:48	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 02:19	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 10:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:33	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP17-SA5B-QC-011211 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182859
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE059-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:55	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 09:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 06:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 06:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/20/2011 18:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 19:51	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:44	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182860
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE059-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.94
06192	Methylene Chloride	75-09-2	1.5	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.94

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Sample Description: SL-072-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182860
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE059-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.0	U	6.0	18		26.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	32.2	J	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182860
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE059-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-072-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182860
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE059-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.02
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

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SL072 SDG#: DE059-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	140	J	110	570		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.8	U	6.8	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: **SL-072-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182860
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL072 SDG#: DE059-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,100		5.58	22.2		1
07914	Boron	7440-42-8	3.74	J	0.988	5.55		1
01650	Calcium	7440-70-2	5,730		6.81	22.2		1
01654	Iron	7439-89-6	44,300		26.1	111		5
01656	Lithium	7439-93-2	61.6		0.24	2.2		1
01657	Magnesium	7439-95-4	8,980		2.82	11.1		1
06958	Manganese	7439-96-5	247		0.0866	0.555		1
10145	Phosphorus	7723-14-0	338		0.622	11.1		1
01662	Potassium	7440-09-7	2,640		20.0	55.5		1
01667	Sodium	7440-23-5	233		41.4	111		1
07968	Strontium	7440-24-6	43.7		0.0688	0.555		1
06969	Tin	7440-31-5	3.38	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,180		0.422	1.11		1
10146	Zirconium	7440-67-7	1.40	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0951	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.3		0.0906	0.453		2
06126	Barium	7440-39-3	160		0.122	0.453		2
06127	Beryllium	7440-41-7	1.51		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.156		0.0453	0.113		2
06131	Chromium	7440-47-3	42.4		0.136	0.453		2
06132	Cobalt	7440-48-4	6.25		0.0227	0.113		2
06133	Copper	7440-50-8	19.0		0.0733	0.444		2
06135	Lead	7439-92-1	12.5		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.356		0.0566	0.113		2
06139	Nickel	7440-02-0	19.4		0.113	0.453		2
06141	Selenium	7782-49-2	0.126	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.525		0.0136	0.113		2
06145	Thallium	7440-28-0	0.346		0.0340	0.113		2
06148	Vanadium	7440-62-2	63.3		0.0249	0.113		2
06149	Zinc	7440-66-6	102		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0117	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-072-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182860
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE059-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	414		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-072-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011	21:58	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011	15:02	Jason M Long	26.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011	19:24	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011	19:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011	19:33	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011	19:21	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011	13:24	Timothy J Trees	1

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SL-072-SA5B-SB-4.0-5.0

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 22:30	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011 23:13	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 17:33	Marie D John	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:26	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 12:26	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 20:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 09:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 14:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 18:03	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 03:25	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 04:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/20/2011 05:09	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:37	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2

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SSFL Area IV Collocated Soil Sampling
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SL072 SDG#: DE059-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:56	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 06:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 06:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/20/2011 18:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 20:03	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:45	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE059-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	1.1	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.95

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Sample Description: SL-071-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE059-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.95
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	32.5	J	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

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Sample Description: SL-071-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE059-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-071-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
LLI Group # 1228894
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL071 SDG#: DE059-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.99
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE059-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	150	J	110	560		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: **SL-071-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE059-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		5.64	22.4		1
07914	Boron	7440-42-8	1.75	J	0.998	5.61		1
01650	Calcium	7440-70-2	5,170		6.87	22.4		1
01654	Iron	7439-89-6	38,700		26.4	112		5
01656	Lithium	7439-93-2	50.4		0.25	2.2		1
01657	Magnesium	7439-95-4	9,180		2.85	11.2		1
06958	Manganese	7439-96-5	493		0.0874	0.561		1
10145	Phosphorus	7723-14-0	553		0.628	11.2		1
01662	Potassium	7440-09-7	2,610		20.2	56.1		1
01667	Sodium	7440-23-5	191		41.8	112		1
07968	Strontium	7440-24-6	39.1		0.0695	0.561		1
06969	Tin	7440-31-5	3.10	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,330		0.426	1.12		1
10146	Zirconium	7440-67-7	0.942	U	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0934	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0862	0.431		2
06126	Barium	7440-39-3	225		0.291	1.08		5
06127	Beryllium	7440-41-7	1.50		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.131		0.0431	0.108		2
06131	Chromium	7440-47-3	45.9		0.129	0.431		2
06132	Cobalt	7440-48-4	9.45		0.0216	0.108		2
06133	Copper	7440-50-8	13.5		0.0725	0.440		2
06135	Lead	7439-92-1	14.7		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.903		0.0539	0.108		2
06139	Nickel	7440-02-0	25.3		0.108	0.431		2
06141	Selenium	7782-49-2	0.201	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0138	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.361		0.0323	0.108		2
06148	Vanadium	7440-62-2	78.4		0.0237	0.108		2
06149	Zinc	7440-66-6	103		0.604	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0902	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.22	1.1		1

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Sample Description: SL-071-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL071 SDG#: DE059-09

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.19	U	0.19	0.54		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential		n.a.	432		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.41		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	10.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-071-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011	22:20	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011	15:21	Jason M Long	24.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011	19:29	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011	19:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011	19:33	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011	19:27	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011	13:40	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011	22:59	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/24/2011	23:46	Gregory J Drahovsky	1

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Sample Description: SL-071-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
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SL071 SDG#: DE059-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 20:35	Marie D John	23.99
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:20	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 14:33	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 20:44	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 10:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 14:30	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 18:33	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 03:41	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 04:55	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/20/2011 05:13	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:42	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/20/2011 20:43	David K Beck	5
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2

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Sample Description: SL-071-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182861
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL071 SDG#: DE059-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 22:58	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 06:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 06:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/24/2011 18:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 20:16	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:46	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-097-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0974 SDG#: DE059-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.91
06192	Methylene Chloride	75-09-2	1.3	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-097-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0974 SDG#: DE059-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.54
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.0	J	19.2	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0974 SDG#: DE059-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-097-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0974 SDG#: DE059-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: **SL-097-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
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Project Name: SSFL Area IV Collocated Soil Sampling

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S0974 SDG#: DE059-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	200	J	110	570		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

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S0974 SDG#: DE059-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		5.67	22.5		1
07914	Boron	7440-42-8	2.49	J	1.00	5.63		1
01650	Calcium	7440-70-2	2,490		6.91	22.5		1
01654	Iron	7439-89-6	23,100		5.31	22.5		1
01656	Lithium	7439-93-2	25.6		0.25	2.3		1
01657	Magnesium	7439-95-4	4,410		2.86	11.3		1
06958	Manganese	7439-96-5	292		0.0879	0.563		1
10145	Phosphorus	7723-14-0	154		0.631	11.3		1
01662	Potassium	7440-09-7	1,520		20.3	56.3		1
01667	Sodium	7440-23-5	159		42.0	113		1
07968	Strontium	7440-24-6	24.3		0.0699	0.563		1
06969	Tin	7440-31-5	2.52	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,100		0.428	1.13		1
10146	Zirconium	7440-67-7	2.22	J	0.947	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0825	J	0.0683	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.52		0.0910	0.455		2
06126	Barium	7440-39-3	141		0.123	0.455		2
06127	Beryllium	7440-41-7	1.02		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0793	J	0.0455	0.114		2
06131	Chromium	7440-47-3	25.7		0.137	0.455		2
06132	Cobalt	7440-48-4	6.79		0.0228	0.114		2
06133	Copper	7440-50-8	6.39		0.0751	0.455		2
06135	Lead	7439-92-1	7.93		0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.644		0.0569	0.114		2
06139	Nickel	7440-02-0	14.9		0.114	0.455		2
06141	Selenium	7782-49-2	0.111	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0820	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.297		0.0341	0.114		2
06148	Vanadium	7440-62-2	48.4		0.0250	0.114		2
06149	Zinc	7440-66-6	55.1		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.1		1

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Sample Description: SL-097-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0974 SDG#: DE059-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	437		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-097-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 22:42	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 15:41	Jason M Long	23.54
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:19	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 19:16	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 13:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 23:27	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 00:18	Gregory J Drahovsky	1

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Sample Description: SL-097-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0974 SDG#: DE059-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 21:12	Marie D John	21.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:15	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 15:16	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 20:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 10:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 14:55	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 18:48	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 03:57	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 05:40	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:46	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182862
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0974 SDG#: DE059-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 23:00	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202A	01/27/2011 06:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202A	01/27/2011 06:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/24/2011 19:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11032243202A	02/03/2011 20:34	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201A	01/24/2011 15:48	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202A	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201A	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182863
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0977 SDG#: DE059-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	0.70	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-097-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182863
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0977 SDG#: DE059-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		23.99
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.9	J	19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-097-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182863
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0977 SDG#: DE059-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182863
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S0977 SDG#: DE059-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.08
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	200	J	110	570		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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Sample Description: **SL-097-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182863
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

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S0977 SDG#: DE059-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.64	22.4		1
07914	Boron	7440-42-8	1.35	J	0.998	5.61		1
01650	Calcium	7440-70-2	1,960		6.88	22.4		1
01654	Iron	7439-89-6	15,900		5.28	22.4		1
01656	Lithium	7439-93-2	19.7		0.25	2.2		1
01657	Magnesium	7439-95-4	3,490		2.85	11.2		1
06958	Manganese	7439-96-5	162		0.0875	0.561		1
10145	Phosphorus	7723-14-0	78.6		0.628	11.2		1
01662	Potassium	7440-09-7	1,160		20.2	56.1		1
01667	Sodium	7440-23-5	99.3	J	41.8	112		1
07968	Strontium	7440-24-6	15.9		0.0695	0.561		1
06969	Tin	7440-31-5	2.37	J	1.12	11.2		1
06970	Titanium	7440-32-6	995		0.426	1.12		1
10146	Zirconium	7440-67-7	1.93	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0686	U	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.58		0.0915	0.458		2
06126	Barium	7440-39-3	60.7		0.124	0.458		2
06127	Beryllium	7440-41-7	0.557		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.114	J	0.0458	0.114		2
06131	Chromium	7440-47-3	16.7		0.137	0.458		2
06132	Cobalt	7440-48-4	5.43		0.0229	0.114		2
06133	Copper	7440-50-8	7.59		0.0733	0.444		2
06135	Lead	7439-92-1	5.61		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.382		0.0572	0.114		2
06139	Nickel	7440-02-0	9.60		0.114	0.458		2
06141	Selenium	7782-49-2	0.0860	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0378	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.291		0.0343	0.114		2
06148	Vanadium	7440-62-2	32.5		0.0252	0.114		2
06149	Zinc	7440-66-6	49.0		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182863
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S0977 SDG#: DE059-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	Oxidation Reduction Potential	n.a.	435		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-097-SA5B-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110141BA	01/14/2011 23:04	Laura M Krieger	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 16:01	Jason M Long	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:14	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101323498	01/13/2011 19:33	Christopher M Klumpp	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-097-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182863
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0977 SDG#: DE059-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101323498	01/13/2011 19:11	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLF026	01/21/2011 14:14	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11015SLB026	01/24/2011 23:56	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 00:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLF026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11015SLB026	01/17/2011 07:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11014A34A	01/17/2011 21:49	Marie D John	22.08
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101323498	01/13/2011 19:11	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110170011A	01/20/2011 15:58	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110170009A	01/19/2011 21:03	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 16:36	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 10:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110170009A	01/17/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110170011A	01/17/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110180024A	01/22/2011 15:20	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190019A	01/20/2011 19:02	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110140015A	01/15/2011 04:14	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190008A	01/21/2011 06:25	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110180024A	01/19/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190008A	01/19/2011 13:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110140015A	01/14/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110190019A	01/19/2011 15:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-097-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182863
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0977 SDG#: DE059-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110145708003	01/18/2011 12:50	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110141026002D	01/17/2011 07:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110181026001A	01/20/2011 23:02	David K Beck	2
06135	Lead	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110141026002C	01/17/2011 07:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110141026002B	01/17/2011 07:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110141026002A	01/17/2011 07:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110145711002	01/17/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110145708003	01/16/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110141026002	01/16/2011 13:07	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110181026001	01/18/2011 20:44	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110145711002	01/16/2011 13:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025202B	01/27/2011 06:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11025025202B	01/27/2011 06:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/24/2011 19:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11032243202A	02/03/2011 20:41	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11024102201B	01/24/2011 15:49	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025202B	01/25/2011 20:00	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11024102201B	01/24/2011 10:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11032243202A	02/01/2011 18:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-011211 Water**
SSFL Area IV Collocated Soil Sampling
TB-011211

LLI Sample # WW 6182864
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 08:00

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB112 SDG#: DE059-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **TB-011211 Water**
SSFL Area IV Collocated Soil Sampling
TB-011211

LLI Sample # WW 6182864
LLI Group # 1228894
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 08:00

Submitted: 01/13/2011 09:20
Reported: 02/04/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB112 SDG#: DE059-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110141AA	01/14/2011	15:21	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110131AA	01/13/2011	13:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110131AA	01/13/2011	13:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110141AA	01/14/2011	15:21	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11016A20A	01/16/2011	21:06	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11016A20A	01/16/2011	21:06	Katrina T Longenecker	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110141BA	Sample number(s): 6182850-6182857,6182859-6182863									
Acetone	6.7	U	6.7	8.0	ug/kg	171		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	104		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	105		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	71		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	122		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	89		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	89		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	87		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	73		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	87		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	105		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	85		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	118		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	94		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	95		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	101		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	103		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	106		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	100		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	90		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	87		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	79		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	96		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	90		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	98		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	72		61-134		
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	97		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	94		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	99		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	106		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	110		77-120		
Toluene	0.17	J	0.08	4.0	ug/kg	103		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	88		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	81		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	105		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	83		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	77		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E110131AA	Sample number(s): 6182864									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	104	60-132	0	30
Batch number: E110171AA	Sample number(s): 6182850-6182857,6182859-6182863									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	98	70-130	7	30
Batch number: Y110141AA	Sample number(s): 6182864									
Acetone	6	U	6.	20	ug/l	157	140	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	97	99	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	100	101	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	105	101	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	104	103	80-120	1	30
Bromoform	1	U	1.	5	ug/l	98	96	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	103	102	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	124	115	66-151	7	30
n-Butylbenzene	1	U	1.	5	ug/l	96	95	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	99	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	106	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	104	103	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	109	108	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	108	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	110	110	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	97	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	78	76	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	102	96	66-120	6	30
Dibromochloromethane	1	U	1.	5	ug/l	99	99	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	102	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	110	109	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	103	79-120	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	116	113	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	95	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	103	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	108	108	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	102	102	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	96	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	99	101	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	106	106	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	97	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	113	109	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	101	100	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	106	106	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	97	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	101	97	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	99	80-120	0	30
Styrene	1	U	1.	5	ug/l	96	96	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	100	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	93	95	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	100	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	102	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	101	99	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	100	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	101	101	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	109	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	99	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	98	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	94	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	96	80-120	2	30

Batch number: 11015SLB026 Sample number(s): 6182850-6182857,6182859-6182863

Acenaphthene	17 U	17.	170	ug/kg	94	76-111	
Acenaphthylene	17 U	17.	170	ug/kg	97	75-122	
Aniline	170 U	170.	500	ug/kg	71	10-107	
Anthracene	17 U	17.	170	ug/kg	98	76-112	
Benzidine	1,200 U	1,200.	3,300	ug/kg	58	15-121	
Benzo(a)anthracene	17 U	17.	170	ug/kg	96	73-112	
Benzo(a)pyrene	17 U	17.	170	ug/kg	87	69-122	
Benzo(b)fluoranthene	17 U	17.	170	ug/kg	82	61-127	
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	93	65-122	
Benzo(k)fluoranthene	17 U	17.	170	ug/kg	84	67-125	
Benzoic acid	170 U	170.	500	ug/kg	96	10-154	
Benzyl alcohol	170 U	170.	500	ug/kg	101	68-111	
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	97	79-117	
Butylbenzylphthalate	17 U	17.	170	ug/kg	92	75-115	

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	99		79-112		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	68		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	156*		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	101		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	91		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	60		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	91		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	116*		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	125*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	102		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	97		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	100		75-117		
Fluoranthene	17	U	17.	170	ug/kg	109		78-116		
Fluorene	17	U	17.	170	ug/kg	97		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	102		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	92		64-119		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	87		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	103		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	86		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	100		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	109*		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	85		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	97		35-106		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Pyrene	17	U	17.	170	ug/kg	89		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11018SLF026	Sample number(s): 6182850-6182857,6182859-6182863									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	97		70-130		
Batch number: 11018SLH026	Sample number(s): 6182850-6182857,6182859-6182863									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	91		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	92		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	114		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	125		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	119		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	100		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	102		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	125		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	104		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	121		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		39-148		
Di-n-octylphthalate	7.4	J	6.0	18	ug/kg	126		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	87		56-121		
Batch number: 11014A34A	Sample number(s): 6182850-6182857,6182859-6182863									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	75	74	67-119	1	30
Batch number: 11016A20A	Sample number(s): 6182864									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 110170011A	Sample number(s): 6182850-6182857,6182859-6182863									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	114		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	107	109	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	108	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	95		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	111		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800	U	800.	2,400	ug/kg	118		80-120		
RDX	50	U	50.	120	ug/kg	117		75-131		
Tetryl	61	U	61.	120	ug/kg	117		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	120		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	113		80-120		
Batch number: 110170009A	Sample number(s): 6182850-6182857,6182859-6182863									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	100		80-126		
Batch number: 110200023A	Sample number(s): 6182863									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110170029A	Sample number(s): 6182850-6182857,6182859-6182863									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	89	75	75-125	17	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	83		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	100		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110180024A	Sample number(s): 6182850-6182857,6182859-6182863									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	111		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	92		66-113		
Batch number: 110140015A	Sample number(s): 6182850-6182857,6182859-6182863									
Diethylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	88		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 110190019A	Sample number(s): 6182850-6182857,6182859-6182863									
Ethanol	100	U	100.	500	ug/kg	86		75-112		
Isopropanol	100	U	100.	500	ug/kg	88		75-125		
Methanol	100	U	100.	500	ug/kg	86		75-134		
Batch number: 110190008A	Sample number(s): 6182850-6182857,6182859-6182863									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
Batch number: 110141026002A	Sample number(s): 6182850-6182863									
Antimony	0.0571	U	0.0571	0.190	mg/kg	72		11-208		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	101		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	103		82-118		
Cadmium	0.0381	U	0.0381	0.0952	mg/kg	104		82-118		
Chromium	0.114	U	0.114	0.381	mg/kg	107		80-120		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	101		82-118		
Lead	0.0656	J	0.0099	0.190	mg/kg	108		80-120		
Nickel	0.0952	U	0.0952	0.381	mg/kg	104		80-120		
Silver	0.0114	U	0.0114	0.0952	mg/kg	103		66-134		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	103		81-119		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	94		90-110		
Zinc	0.854	J	0.533	2.86	mg/kg	101		78-122		
Batch number: 110141026002B	Sample number(s): 6182850-6182863									
Selenium	0.0381	U	0.0381	0.381	mg/kg	105		79-122		
Batch number: 110141026002C	Sample number(s): 6182850-6182863									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	108		78-122		
Batch number: 110141026002D	Sample number(s): 6182850-6182863									
Barium	0.103	U	0.103	0.381	mg/kg	104		79-121		
Batch number: 110145708003	Sample number(s): 6182850-6182863									
Aluminum	4.84	U	4.84	19.2	mg/kg	93		61-110		
Boron	0.856	U	0.856	4.81	mg/kg	94		78-110		
Calcium	5.89	U	5.89	19.2	mg/kg	99		88-110		
Iron	4.53	U	4.53	19.2	mg/kg	82		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	101		80-120		
Magnesium	2.44	U	2.44	9.62	mg/kg	93		82-110		
Manganese	0.0750	U	0.0750	0.481	mg/kg	100		81-119		
Phosphorus	1.46	J	0.538	9.62	mg/kg	101		80-120		
Potassium	17.3	U	17.3	48.1	mg/kg	95		78-110		
Sodium	35.9	U	35.9	96.2	mg/kg	97		87-110		
Strontium	0.0596	U	0.0596	0.481	mg/kg	106		79-121		
Tin	1.32	J	0.962	9.62	mg/kg	95		90-114		
Titanium	0.365	U	0.365	0.962	mg/kg	84		80-120		
Zirconium	0.808	U	0.808	4.81	mg/kg	100		80-120		
Batch number: 110145711002	Sample number(s): 6182850-6182863									
Mercury	0.0027	U	0.0027	0.0957	mg/kg	106		88-123		
Batch number: 110181026001A	Sample number(s): 6182850-6182863									
Copper	0.0660	U	0.0660	0.400	mg/kg	101		80-120		
Batch number: 11020621201A	Sample number(s): 6182855-6182856,6182858-6182863									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11024102201A	Sample number(s): 6182850-6182856,6182858-6182862									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11024102201B	Sample number(s): 6182863									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11024621201A	Sample number(s): 6182850-6182854									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	105		85-115		
Batch number: 11025025202A	Sample number(s): 6182850-6182856,6182858-6182862									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	94		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11025025202B	Sample number(s): 6182863									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	94		90-110		
Batch number: 11032243202A	Sample number(s): 6182850-6182856,6182858-6182863									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	107		80-120		
Batch number: 11018039401B	Sample number(s): 6182850-6182855,6182858									
22a pH by 9045C						100		95-105		
Batch number: 11018039402A	Sample number(s): 6182859-6182863									
22a pH by 9045C						100		95-105		
Batch number: 11018182101B	Sample number(s): 6182850-6182854									
Oxidation Reduction Potential						99		98-102		
Batch number: 11018182101C	Sample number(s): 6182855,6182858									
Oxidation Reduction Potential						99		98-102		
Batch number: 11018182102A	Sample number(s): 6182859-6182863									
Oxidation Reduction Potential						99		98-102		
Batch number: 11026162401B	Sample number(s): 6182850-6182863									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110141BA	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
Acetone	158	170	15-210	49*	30				
Benzene	96	95	55-143	40*	30				
Bromobenzene	80	76	43-139	37*	30				
Bromochloromethane	104	98	60-137	35*	30				
Bromodichloromethane	90	92	53-136	43*	30				
Bromoform	89	91	38-124	44*	30				
Bromomethane	69	77	42-168	53*	30				
2-Butanone	105	112	37-163	47*	30				
n-Butylbenzene	55	45	30-146	22	30				
sec-Butylbenzene	59	47	33-157	19	30				
tert-Butylbenzene	63	51	41-152	20	30				
Carbon Tetrachloride	101	98	45-153	38*	30				
Chlorobenzene	83	79	49-135	36*	30				
Chloroethane	70	79	39-152	52*	30				
2-Chloroethyl Vinyl Ether	73	73	32-139	42*	30				
Chloroform	100	101	61-142	43*	30				
Chloromethane	78	92	51-163	58*	30				
2-Chlorotoluene	72	63	42-146	29	30				
4-Chlorotoluene	71	63	39-145	30	30				

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Quality Control Summary

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Reported: 02/04/11 at 03:49 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chlorotrifluoroethene	128	140*	70-130	1	30				
1,2-Dibromo-3-chloropropane	66	73	30-139	51*	30				
Dibromochloromethane	93	95	51-128	43*	30				
1,2-Dibromoethane	89	91	54-129	44*	30				
Dibromomethane	93	95	57-130	43*	30				
1,2-Dichlorobenzene	76	74	36-133	39*	30				
1,3-Dichlorobenzene	72	66	34-134	34*	30				
1,4-Dichlorobenzene	74	69	35-136	35*	30				
Dichlorodifluoromethane	79	78	26-151	40*	30				
1,1-Dichloroethane	97	100	63-142	45*	30				
1,2-Dichloroethane	94	97	68-131	44*	30				
1,1-Dichloroethene	102	105	61-149	44*	30				
cis-1,2-Dichloroethene	99	102	60-136	44*	30				
trans-1,2-Dichloroethene	101	101	59-142	41*	30				
1,2-Dichloropropane	91	92	62-135	43*	30				
1,3-Dichloropropane	85	89	58-129	46*	30				
2,2-Dichloropropane	98	101	53-147	44*	30				
1,1-Dichloropropene	90	86	54-145	37*	30				
cis-1,3-Dichloropropene	76	77	51-131	43*	30				
trans-1,3-Dichloropropene	77	79	49-129	44*	30				
Ethylbenzene	73	64	44-141	29	30				
Freon 113	106	111	56-156	45*	30				
Freon 133a	96	99	70-130	5	30				
Hexachlorobutadiene	52	45	10-155	27	30				
2-Hexanone	66	71	32-160	48*	30				
Isopropylbenzene	64	53	38-144	23	30				
p-Isopropyltoluene	59	48	29-152	22	30				
Methyl Tertiary Butyl Ether	86	93	55-129	49*	30				
4-Methyl-2-pentanone	56	61	46-139	49*	30				
Methylene Chloride	90	97	61-141	46*	30				
n-Propylbenzene	67	56	39-157	24	30				
Styrene	76	71	35-134	35*	30				
1,1,1,2-Tetrachloroethane	92	91	52-130	41*	30				
1,1,2,2-Tetrachloroethane	82	86	40-152	46*	30				
Tetrachloroethene	90	80	42-149	29	30				
Toluene	89	83	50-146	35*	30				
1,2,3-Trichlorobenzene	55	60	10-140	49*	30				
1,2,4-Trichlorobenzene	51	53	10-136	45*	30				
1,1,1-Trichloroethane	100	98	64-142	40*	30				
1,1,2-Trichloroethane	92	97	54-139	47*	30				
Trichloroethene	88	84	53-144	37*	30				
Trichlorofluoromethane	90	92	47-163	44*	30				
1,2,3-Trichloropropane	83	88	45-154	47*	30				
1,2,4-Trimethylbenzene	67	59	37-149	29	30				
1,3,5-Trimethylbenzene	67	57	38-150	26	30				
Vinyl Chloride	80	85	50-154	47*	30				
m+p-Xylene	76	68	44-137	30	30				
o-Xylene	70	63	42-137	32*	30				
Batch number: E110171AA	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
1,4-Dioxane	91	92	70-130	16	30				
Batch number: 11015SLB026	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								

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Quality Control Summary

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Reported: 02/04/11 at 03:49 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	96	95	75-115	1	30				
Acenaphthylene	98	96	49-126	2	30				
Aniline	56	61	14-114	9	30				
Anthracene	101	103	75-115	2	30				
Benzidine	37	42	35-141	13	30				
Benzo(a)anthracene	95	98	65-122	3	30				
Benzo(a)pyrene	91	96	57-126	6	30				
Benzo(b)fluoranthene	87	89	59-125	2	30				
Benzo(g,h,i)perylene	83	88	59-127	6	30				
Benzo(k)fluoranthene	90	91	56-132	2	30				
Benzoic acid	29	25	10-173	13	30				
Benzyl alcohol	102	99	55-123	3	30				
4-Bromophenyl-phenylether	98	99	67-129	1	30				
Butylbenzylphthalate	91	95	73-134	5	30				
Di-n-butylphthalate	105	104	67-123	2	30				
Carbazole	107	107	64-120	0	30				
4-Chloro-3-methylphenol	95	100	53-130	5	30				
4-Chloroaniline	58	65	23-95	11	30				
bis(2-Chloroethoxy)methane	94	95	54-117	1	30				
bis(2-Chloroethyl)ether	91	96	60-116	5	30				
bis(2-Chloroisopropyl)ether	89	91	55-142	2	30				
2-Chloronaphthalene	84	83	50-141	1	30				
2-Chlorophenol	99	98	73-121	1	30				
4-Chlorophenyl-phenylether	96	97	64-119	1	30				
Chrysene	101	104	62-128	3	30				
Dibenz(a,h)anthracene	85	92	65-125	8	30				
Dibenzofuran	95	97	71-112	2	30				
1,2-Dichlorobenzene	85	89	66-108	4	30				
1,3-Dichlorobenzene	85	88	63-109	3	30				
1,4-Dichlorobenzene	87	89	53-113	2	30				
3,3'-Dichlorobenzidine	51	59	25-123	15	30				
2,4-Dichlorophenol	97	98	78-117	1	30				
Diethylphthalate	95	95	66-118	0	30				
2,4-Dimethylphenol	93	91	56-130	3	30				
3,5-Dimethylphenol	107	107	70-130	0	30				
Dimethylphthalate	99	95	64-118	3	30				
4,6-Dinitro-2-methylphenol	119	107	10-148	11	30				
2,4-Dinitrophenol	109	88	20-143	21	30				
2,4-Dinitrotoluene	98	99	57-114	1	30				
2,6-Dinitrotoluene	99	100	69-123	0	30				
1,2-Diphenylhydrazine	100	100	71-129	0	30				
bis(2-Ethylhexyl)phthalate	101	102	63-122	2	30				
Fluoranthene	114	110	59-122	4	30				
Fluorene	97	97	60-125	1	30				
Hexachlorobenzene	100	104	61-111	4	30				
Hexachlorobutadiene	83	83	62-120	1	30				
Hexachlorocyclopentadiene	93	97	10-153	5	30				
Hexachloroethane	81	85	57-109	4	30				
Indeno(1,2,3-cd)pyrene	86	92	61-126	7	30				
Isophorone	92	93	51-118	1	30				
1-Methylnaphthalene	95	97	73-112	2	30				
2-Methylnaphthalene	87	90	76-114	3	30				
2-Methylphenol	100	98	47-142	2	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Methylphenol	101	102	55-126	1	30				
Naphthalene	90	93	72-116	4	30				
2-Nitroaniline	103	103	67-125	0	30				
3-Nitroaniline	95	96	59-122	1	30				
4-Nitroaniline	73	73	52-112	0	30				
Nitrobenzene	89	88	51-114	1	30				
2-Nitrophenol	100	104	74-115	4	30				
4-Nitrophenol	82	81	39-133	1	30				
N-Nitroso-di-n-propylamine	89	85	60-116	5	30				
N-Nitrosodimethylamine	111	117*	47-116	5	30				
N-Nitrosodiphenylamine	104	100	86-145	5	30				
Di-n-octylphthalate	90	88	56-126	2	30				
Pentachlorophenol	98	86	17-149	13	30				
Phenanthrene	101	99	65-125	3	30				
Phenol	96	99	58-126	3	30				
Pyrene	90	92	51-151	3	30				
1,2,4-Trichlorobenzene	91	91	72-115	0	30				
2,4,5-Trichlorophenol	100	99	34-139	1	30				
2,4,6-Trichlorophenol	98	96	49-140	2	30				
Batch number: 11018SLF026	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
N-Nitrosodimethylamine	73	79	70-130	8	30				
Batch number: 11018SLH026	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
Acenaphthene	86	92	63-105	7	30				
Acenaphthylene	84	89	55-126	5	30				
Anthracene	88	92	46-136	4	30				
Benzo(a)anthracene	91	95	39-144	5	30				
Benzo(a)pyrene	113	119	34-156	6	30				
Benzo(b)fluoranthene	126	142	43-155	11	30				
Benzo(g,h,i)perylene	50	46	33-141	9	30				
Benzo(k)fluoranthene	131	145*	42-144	11	30				
Butylbenzylphthalate	102	108	73-140	5	30				
Di-n-butylphthalate	98	103	78-160	5	30				
Chrysene	89	92	29-156	4	30				
Dibenz(a,h)anthracene	70	66	41-130	6	30				
Diethylphthalate	93	97	87-131	5	30				
Dimethylphthalate	93	97	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	112	123	39-167	9	30				
Fluoranthene	92	98	26-166	6	30				
Fluorene	92	95	45-121	4	30				
Indeno(1,2,3-cd)pyrene	64	60	21-143	7	30				
1-Methylnaphthalene	86	92	72-123	7	30				
2-Methylnaphthalene	77	83	28-121	7	30				
Naphthalene	85	92	61-102	8	30				
N-Nitrosodimethylamine	86	92	48-113	7	30				
Di-n-octylphthalate	153	177	40-192	12	30				
Phenanthrene	85	91	12-165	7	30				
Pyrene	85	91	15-153	7	30				
Batch number: 11014A34A	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
9a TPH by EPA 8015B Gas C5-C12	62	60	39-118	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110170011A	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
4-Amino-2,6-Dinitrotoluene	108	102	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	108	103	80-137	5	50				
1,3-Dinitrobenzene	108	103	38-166	5	50				
2,4-Dinitrotoluene	106	101	80-131	5	50				
2,6-Dinitrotoluene	109	104	80-127	4	50				
HMX	97	89	63-128	8	50				
Nitrobenzene	106	101	80-125	6	50				
Nitroglycerin	96	90	80-120	7	50				
2-Nitrotoluene	107	102	80-122	5	50				
3-Nitrotoluene	107	103	72-119	4	50				
4-Nitrotoluene	106	101	80-125	4	50				
PETN	114	106	80-121	7	50				
RDX	106	101	75-129	5	50				
Tetryl	100	106	55-174	6	50				
1,3,5-Trinitrobenzene	112	108	82-126	4	50				
2,4,6-Trinitrotoluene	107	102	82-130	5	50				
Batch number: 110170009A	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
17a Formaldehyde by 8315A	94	95	80-120	1	50				
Batch number: 110200023A	Sample number(s): 6182863 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110170029A	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
PCB-1016	102	91	29-146	12	50				
PCB-1260	126	136	39-149	7	50				
Batch number: 110180024A	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
EFH (C12-C14)	89	99	49-123	10	20				
EFH (C15-C20)	78	64	49-123	12	20				
EFH (C21-C30)	88	-114*	49-123	68*	20				
EFH (C30 - C40)	-35 (2)	-441 (2)	49-123	72*	20				
EFH (C8-C11)	65	71	49-123	9	20				
Batch number: 110140015A	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
Diethylene glycol	45*	74	59-109	48*	20				
Ethylene glycol	64	56*	63-107	13	20				
Propylene glycol	64	56*	63-107	13	20				
Batch number: 110190019A	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
Ethanol	78	65	24-143	18	20				
Isopropanol	82	73*	75-125	12	20				
Methanol	75	58	45-136	26*	20				
Batch number: 110190008A	Sample number(s): 6182850-6182857,6182859-6182863 UNSPK: 6182855								
m-Terphenyl	86	88	75-125	3	20				
o-Terphenyl	88	89	75-125	1	20				
p-Terphenyl	76	78	75-125	2	20				
Batch number: 110141026002A	Sample number(s): 6182850-6182863 UNSPK: 6182855 BKG: 6182855								
Antimony	33*	35*	75-125	4	20	0.103 J	0.114 J	10 (1)	20

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Quality Control Summary

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Reported: 02/04/11 at 03:49 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Arsenic	155*	180*	75-125	7	20	4.17	3.88	7	20
Beryllium	114	132*	75-125	9	20	0.550	0.487	12	20
Cadmium	148*	127*	75-125	14	20	0.159	0.164	3 (1)	20
Chromium	133*	153*	75-125	6	20	17.3	16.3	6	20
Cobalt	112	113	75-125	1	20	5.56	5.11	8	20
Lead	212*	155*	75-125	16	20	5.15	4.50	14	20
Nickel	117	127*	75-125	4	20	10.5	9.66	9	20
Silver	128*	126*	75-125	2	20	0.0229 J	0.0214 J	7 (1)	20
Thallium	120	106	75-125	7	20	0.349	0.314	11 (1)	20
Vanadium	139*	174*	75-125	7	20	33.3	32.2	4	20
Zinc	178 (2)	192 (2)	75-125	2	20	61.2	58.5	4	20
Batch number: 110141026002B	Sample number(s): 6182850-6182863 UNSPK: 6182855 BKG: 6182855								
Selenium	112	121	75-125	7	20	0.105 J	0.0751 J	33* (1)	20
Batch number: 110141026002C	Sample number(s): 6182850-6182863 UNSPK: 6182855 BKG: 6182855								
Molybdenum	119	120	75-125	1	20	0.416	0.371	11 (1)	20
Batch number: 110141026002D	Sample number(s): 6182850-6182863 UNSPK: 6182855 BKG: 6182855								
Barium	151 (2)	203 (2)	75-125	5	20	92.0	93.2	1	20
Batch number: 110145708003	Sample number(s): 6182850-6182863 UNSPK: 6182855 BKG: 6182855								
Aluminum	2003 (2)	2699 (2)	75-125	8	20	13,400	12,500	6	20
Boron	100	100	84-115	1	20	1.94 J	1.86 J	4 (1)	20
Calcium	-181 (2)	-71 (2)	75-125	13	20	3,680	3,300	11	20
Iron	-3901 (2)	-2925 (2)	75-125	5	20	21,300	18,800	12	20
Lithium	94	96	82-114	2	20	25.3	27.8	10	20
Magnesium	-308 (2)	-231 (2)	75-125	4	20	4,590	4,680	2	20
Manganese	60 (2)	84 (2)	75-125	4	20	265	229	15	20
Phosphorus	33*	8*	75-125	6	20	360	370	3	20
Potassium	124	123	75-125	0	20	2,530	2,440	4	20
Sodium	98	99	75-125	1	20	166	160	4 (1)	20
Strontium	96	99	75-115	3	20	19.2	18.7	2	20
Tin	87	87	80-110	1	20	2.14 J	2.18 J	2 (1)	20
Titanium	105 (2)	182 (2)	75-125	6	20	1,060	1,010	5	20
Zirconium	96	97	75-125	2	20	0.839 J	1.10 J	27* (1)	20
Batch number: 110145711002	Sample number(s): 6182850-6182863 UNSPK: 6182855 BKG: 6182855								
Mercury	114	108	65-135	12	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 110181026001A	Sample number(s): 6182850-6182863 UNSPK: 6182855 BKG: 6182855								
Copper	32*	35*	75-125	2	20	12.2	7.19	51*	20
Batch number: 11020621201A	Sample number(s): 6182855-6182856,6182858-6182863 UNSPK: 6182855 BKG: 6182855								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11024102201A	Sample number(s): 6182850-6182856,6182858-6182862 UNSPK: 6182855 BKG: 6182855								
21a Cyanide by 9012B	107		75-125			0.17 U	0.17 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11024102201B	Sample number(s): 6182863 UNSPK: 6182863 BKG: 6182863										
21a Cyanide by 9012B	108		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11024621201A	Sample number(s): 6182850-6182854 UNSPK: 6182850 BKG: 6182850										
7a Perchlorate EPA 314.0	109		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11025025202A	Sample number(s): 6182850-6182856,6182858-6182862 UNSPK: 6182855 BKG: 6182855										
11a Anions by 300.0 - Fluoride	81		80-120			2.2		1.7		26* (1)	20
11a Anions by 300.0 - Nitrate	106		80-120			4.6		4.0		14 (1)	20
Batch number: 11025025202B	Sample number(s): 6182863 UNSPK: 6182863 BKG: 6182863										
11a Anions by 300.0 - Fluoride	62*		80-120			1.6		1.8		13 (1)	20
11a Anions by 300.0 - Nitrate	84		80-120			1.2	J	1.3	J	5 (1)	20
Batch number: 11032243202A	Sample number(s): 6182850-6182856,6182858-6182863 UNSPK: 6182855 BKG: 6182855										
3a Cr VI by EPA 7199	92		75-125			0.35	J	0.33	J	7 (1)	20
Batch number: 11018039401B	Sample number(s): 6182850-6182855,6182858 BKG: 6182855										
22a pH by 9045C						7.25		7.25		0	1
Batch number: 11018039402A	Sample number(s): 6182859-6182863 BKG: 6182859										
22a pH by 9045C						7.25		7.25		0	1
Batch number: 11018182101B	Sample number(s): 6182850-6182854 BKG: P182836										
Oxidation Reduction Potential						366		366		0	6
Batch number: 11018182101C	Sample number(s): 6182855,6182858 BKG: 6182855										
Oxidation Reduction Potential						380		380		0	6
Batch number: 11018182102A	Sample number(s): 6182859-6182863 BKG: 6182859										
Oxidation Reduction Potential						390		390		0	6
Batch number: 11026162401B	Sample number(s): 6182850-6182863 BKG: 6182855										
28a Moisture Content by 160.3						11.6		12.1		5	20
28a Moisture Content by 160.3						11.6		12.1		5	20
28a Moisture Content by 160.3						11.6		12.1		5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110141BA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6182850	112	108	98	80
6182851	112	108	96	84
6182852	112	107	95	84
6182853	113	107	99	77

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Surrogate Quality Control

6182854	113	109	94	85
6182855	114	111	94	88
6182856	102	98	102	97
6182857	102	100	103	96
6182859	111	106	96	84
6182860	112	106	94	85
6182861	112	106	94	85
6182862	112	108	95	85
6182863	113	105	94	84
Blank	110	107	95	85
LCS	104	106	101	101
MS	102	98	102	97
MSD	102	100	103	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110131AA

	Toluene-d8
6182864	103
Blank	101
LCS	101
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110171AA

	Toluene-d8
6182850	99
6182851	99
6182852	98
6182853	99
6182854	99
6182855	98
6182856	99
6182857	99
6182859	99
6182860	99
6182861	99
6182862	98
6182863	99
Blank	99
LCS	100
LCSD	100
MS	99
MSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110141AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6182864	106	102	98	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Surrogate Quality Control

Blank	104	98	99	100
LCS	106	102	100	102
LCSD	106	105	100	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11015SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6182850	100	96	93	88	96	82
6182851	93	92	104	83	89	81
6182852	98	98	101	84	89	84
6182853	96	97	101	82	89	79
6182854	96	94	102	83	90	78
6182855	97	96	98	84	91	79
6182856	99	97	97	85	90	78
6182857	98	97	96	87	89	80
6182859	91	90	102	78	88	77
6182860	92	92	96	80	86	84
6182861	92	92	105	81	90	89
6182862	90	92	105	81	87	86
6182863	97	95	104	80	88	87
Blank	93	95	90	81	83	77
LCS	95	94	100	84	92	78
MS	99	97	97	85	90	78
MSD	98	97	96	87	89	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11018SLF026

	N-Nitrosodimethylamine-d6
6182850	148
6182851	137
6182852	143
6182853	122
6182854	125
6182855	137
6182856	142
6182857	128
6182859	138
6182860	121
6182861	121
6182862	135
6182863	128
Blank	122
LCS	116
MS	142
MSD	128
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11018SLH026

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Surrogate Quality Control

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6182850	95	89	91
6182851	94	87	88
6182852	90	83	86
6182853	94	88	90
6182854	93	87	90
6182855	93	88	93
6182856	99	85	88
6182857	102	86	89
6182859	90	87	89
6182860	88	81	86
6182861	92	89	91
6182862	87	82	84
6182863	91	85	93
Blank	101	76	86
LCS	106	88	85
MS	99	85	88
MSD	102	86	89
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11014A34A

	Trifluorotoluene-F
6182850	76
6182851	76
6182852	72
6182853	72
6182854	76
6182855	78
6182856	75
6182857	76
6182859	74
6182860	76
6182861	72
6182862	73
6182863	72
Blank	82
LCS	87
LCSD	87
MS	75
MSD	76
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11016A20A

	Trifluorotoluene-F
6182864	95
Blank	95
LCS	125
LCSD	125
Limits:	63-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Surrogate Quality Control

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110170009A

	Butyraldehyde
6182850	84
6182851	92
6182852	87
6182853	92
6182854	86
6182855	94
6182856	95
6182857	97
6182859	86
6182860	88
6182861	86
6182862	87
6182863	89
Blank	98
LCS	97
MS	95
MSD	97
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110170011A

	2-Nitro-m-xylene
6182850	116
6182851	117
6182852	111
6182853	111
6182854	120
6182855	107
6182856	122
6182857	111
6182859	125
6182860	109
6182861	112
6182862	120
6182863	112
Blank	118
LCS	122
LCSD	108
MS	122
MSD	111
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110170029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6182850	70	84
6182851	59	71
6182852	100	122*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

Surrogate Quality Control

6182853	106	126*
6182854	96	122*
6182855	113	143*
6182856	107	120
6182857	88	122*
6182859	98	131*
6182860	109	124*
6182861	87	119
6182862	88	101
6182863	108	146*
Blank	120	146*
LCS	94	106
LCSD	90	112
MS	107	120
MSD	88	122*
Limits:	53-139	45-120

Analysis Name: 27a Glycols by 8015B
Batch number: 110140015A

	Tetramethylene glycol
6182850	48
6182851	47
6182852	49
6182853	49
6182854	42
6182855	52
6182856	83
6182857	69
6182859	52
6182860	49
6182861	48
6182862	47
6182863	48
Blank	95
LCS	96
MS	83
MSD	69
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110180024A

	Chlorobenzene	Orthoterphenyl
6182850	81	98
6182851	88	92
6182852	79	82
6182853	93	100
6182854	81	90
6182855	85	95
6182856	100	101
6182857	99	101
6182859	90	100
6182860	92	95
6182861	93	98
6182862	83	93

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Quality Control Summary

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Reported: 02/04/11 at 03:49 PM

Surrogate Quality Control

6182863	91	96
Blank	100	107
LCS	107	108
MS	100	101
MSD	99	101
Limits:	37-125	47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110190008A

	n-Triacontane-d62
6182850	92
6182851	102
6182852	100
6182853	97
6182854	92
6182855	96
6182856	91
6182857	94
6182859	91
6182860	99
6182861	101
6182862	99
6182863	100
Blank	102
LCS	100
MS	91
MSD	94
Limits:	50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110190019A

	Acetone
6182850	85
6182851	86
6182852	87
6182853	92
6182854	93
6182855	82
6182856	86
6182857	75
6182859	81
6182860	92
6182861	93
6182862	86
6182863	80
Blank	90
LCS	90
MS	86
MSD	75
Limits:	42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228894
Reported: 02/04/11 at 03:49 PM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1228894 6182850-64

CHAIN OF CUSTODY RECORD

COM | SBFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature: Gilbert J. Hartman

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*BVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-HOAA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-104-SA5B-SB-4.0-5.0	01.12.1	0928	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-4.5	01.12.1	0925	SOIL	NONE	5 ENCORES											X	X	X										
SL-104-SA5B-SB-9.0-10.0	01.12.1	0938	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-9.5	01.12.1	0933	SOIL	NONE	5 ENCORES											X	X	X										
SL-096-SA5B-SB-4.0-5.0	01.12.1	1148	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-096-SA5B-SB-4.5	01.12.1	1145	SOIL	NONE	5 ENCORES											X	X	X										
SL-095-SA5B-SB-4.0-5.0MS	01.12.1	0915	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X	X															
SL-095-SA5B-SB-4.5MS	01.12.1	0910	SOIL	NONE	12 ENCORES											X	X											
DUP18-SA5B-SB-011211	01.12.1	0924	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
DUP18-SA5B-SB-011211	01.12.1	0919	SOIL	NONE	4 ENCORES											X	X											
SL-096-SA5B-SB-2.0-3.0	01.12.1	1019	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-096-SA5B-SB-2.5	01.12.1	1015	SOIL	NONE	4 ENCORES											X	X											
SL-103-SA5B-SB-4.0-5.0	01.12.1	1224	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-4.5	01.12.1	1220	SOIL	NONE	5 ENCORES											X	X	X										
SL-103-SA5B-SB-9.0-10.0	01.12.1	1234	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-9.5	01.12.1	1230	SOIL	NONE	5 ENCORES											X	X	X										
SL-092-SA5B-SB-4.0-5.0MS	01.12.1	1040	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-092-SA5B-SB-4.5MS	01.12.1	1038	SOIL	NONE	15 ENCORES											X	X	X										
DUP17-SA5B-SB-011211	01.12.1	1048	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
DUP17-SA5B-SB-011211	01.12.1	1048	SOIL	NONE	5 ENCORES											X	X	X										
SL-072-SA5B-SB-4.0-5.0	01.12.1	1456	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-072-SA5B-SB-4.5	01.12.1	1454	SOIL	NONE	5 ENCORES											X	X	X										
SL-071-SA5B-SB-2.0-3.0	01.12.1	1549	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-071-SA5B-SB-2..5	01.12.1	1545	SOIL	NONE	5 ENCORES											X	X	X										
SL-097-SA5B-SB-4.0-5.0	01.12.1	1436	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-4.5	01.12.1	1432	SOIL	NONE	5 ENCORES											X	X	X										
SL-097-SA5B-SB-7.0-8.0	01.12.1	1447	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-7.5	01.12.1	1442	SOIL	NONE	5 ENCORES											X	X	X										
TB-011211	01.12.1	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										

Relinquished by: (Signature) Date/Time 1/12/2011, 16:30

Received by: (Signature) Date/Time

Received for Laboratory by: (Signature) 1/13/11 1320

Airbill No.s: 8598 1431 9894, ...1432 0805, ...0015, ...0027

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 4

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A(surface soil only)	*Herbicides EPA 8151(surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-104-SA5B-SB-4.0-5.0	01.12.11	0928	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-4.5	01.12.11	0925	SOIL	NONE	5 ENCORES											X	X	X											
SL-104-SA5B-SB-9.0-10.0	01.12.11	0938	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-9.5	01.12.11	0933	SOIL	NONE	5 ENCORES											X	X	X											
SL-098-SA5B-SB-4.0-5.0	01.12.11	1149	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-098-SA5B-SB-4.5	01.12.11	1145	SOIL	NONE	5 ENCORES											X	X	X											
SL-095-SA5B-SB-4.0-5.0MS	01.12.11	0916	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X	X																
SL-095-SA5B-SB-4.5MS	01.12.11	0910	SOIL	NONE	12 ENCORES											X	X												
DUP18-SA5B-QC-011211	01.12.11	0924	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
DUP18-SA5B-QC-011211	01.12.11	0919	SOIL	NONE	4 ENCORES											X	X												
SL-096-SA5B-SB-2.0-3.0	01.12.11	1019	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-096-SA5B-SB-2.5	01.12.11	1015	SOIL	NONE	4 ENCORES											X	X												
SL-103-SA5B-SB-4.0-5.0	01.12.11	1224	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-4.5	01.12.11	1220	SOIL	NONE	5 ENCORES											X	X	X											
SL-103-SA5B-SB-9.0-10.0	01.12.11	1234	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-9.5	01.12.11	1230	SOIL	NONE	5 ENCORES											X	X	X											
SL-092-SA5B-SB-4.0-5.0MS	01.12.11	1040	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-092-SA5B-SB-4.5MS	01.12.11	1038	SOIL	NONE	15 ENCORES											X	X	X											
DUP17-SA5B-QC-011211	01.12.11	1048	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
DUP17-SA5B-QC-011211	01.12.11	1048	SOIL	NONE	5 ENCORES											X	X	X											
SL-072-SA5B-SB-4.0-5.0	01.12.11	1458	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-072-SA5B-SB-4.5	01.12.11	1454	SOIL	NONE	5 ENCORES											X	X	X											
SL-071-SA5B-SB-2.0-3.0	01.12.11	1549	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-071-SA5B-SB-2..5	01.12.11	1545	SOIL	NONE	5 ENCORES											X	X	X											
SL-097-SA5B-SB-4.0-5.0	01.12.11	1436	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-4.5	01.12.11	1432	SOIL	NONE	5 ENCORES											X	X	X											
SL-097-SA5B-SB-7.0-8.0	01.12.11	1447	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-7.5	01.12.11	1442	SOIL	NONE	5 ENCORES											X	X	X											
TB-011211	01.12.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	1/12/2011, 16:30		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	**No. of coolers =**

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Friday, January 21, 2011 4:48 PM
To: Nicole Maljovec
Cc: Bloisa, Peggy; Burgesser, Todd
Subject: Revised COC
Attachments: COC_sub_&_surface_samples_01_12_11-REVISED.xls

Hi Nicole,

I found an error on the COC dated 1/12/2011. The following sample IDs have been changed. A revised copy is attached.

DUP17-SA5B-SB-011211 was changed to DUP17-SA5B-QC-011211
DUP18-SA5B-SB-011211 was changed to DUP18-SA5B-QC-011211

Sorry for the delay!

Todd, I have made the appropriate corrections in the tracking sheet and will update that for you this evening.

Thanks all!

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
Please consider the environment before printing this e-mail.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/13/2011
Group Number: 1228896
SDG: DX039
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-104-SA5B-SB-4.0-5.0 Soil	6182866
SL-104-SA5B-SB-9.0-10.0 Soil	6182867
SL-098-SA5B-SB-4.0-5.0 Soil	6182868
SL-103-SA5B-SB-4.0-5.0 Soil	6182869
SL-103-SA5B-SB-9.0-10.0 Soil	6182870
SL-092-SA5B-SB-4.0-5.0 Soil	6182871
SL-092-SA5B-SB-4.0-5.0MS Soil	6182872
SL-092-SA5B-SB-4.0-5.0MSD Soil	6182873
DUP17-SA5B-QC-011211 Soil	6182874
SL-072-SA5B-SB-4.0-5.0 Soil	6182875
SL-071-SA5B-SB-2.0-3.0 Soil	6182876
SL-097-SA5B-SB-4.0-5.0 Soil	6182877
SL-097-SA5B-SB-7.0-8.0 Soil	6182878

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-104-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182866
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1044 SDG#: DX039-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-104-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182866
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1044 SDG#: DX039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0356	U	0.0356	1.11	1
11031	12378-PeCDD	40321-76-4	0.0448	JBQ	0.0359	5.56	1
11031	123478-HxCDD	39227-28-6	0.0697	JB	0.0362	5.56	1
11031	123678-HxCDD	57653-85-7	0.166	JBQ	0.0372	5.56	1
11031	123789-HxCDD	19408-74-3	0.188	J	0.0364	5.56	1
11031	1234678-HpCDD	35822-46-9	5.45	JB	0.0648	5.56	1
11031	OCDD	3268-87-9	75.3	B	0.0449	11.1	1
11031	2378-TCDF	51207-31-9	0.0509	JQ	0.0507	1.11	1
11031	12378-PeCDF	57117-41-6	0.119	J	0.0266	5.56	1
11031	23478-PeCDF	57117-31-4	0.139	JBQ	0.0250	5.56	1
11031	123478-HxCDF	70648-26-9	0.146	JB	0.0342	5.56	1
11031	123678-HxCDF	57117-44-9	0.0896	JB	0.0317	5.56	1
11031	123789-HxCDF	72918-21-9	0.136	JBQ	0.0370	5.56	1
11031	234678-HxCDF	60851-34-5	0.165	JBQ	0.0340	5.56	1
11031	1234678-HpCDF	67562-39-4	1.13	JB	0.0193	5.56	1
11031	1234789-HpCDF	55673-89-7	0.104	JB	0.0242	5.56	1
11031	OCDF	39001-02-0	2.44	JB	0.0448	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	91	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182866
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1044 SDG#: DX039-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-4.0-5.0

LLI Sample # SW 6182866
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:28

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1044 SDG#: DX039-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 02:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-104-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182867
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1049 SDG#: DX039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182867
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1049 SDG#: DX039-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0743	U	0.0743	1.12	1
11031	12378-PeCDD	40321-76-4	0.0768	JBQ	0.0573	5.62	1
11031	123478-HxCDD	39227-28-6	0.0779	U	0.0779	5.62	1
11031	123678-HxCDD	57653-85-7	0.723	JB	0.0812	5.62	1
11031	123789-HxCDD	19408-74-3	0.473	JQ	0.0806	5.62	1
11031	1234678-HpCDD	35822-46-9	33.0	B	0.113	5.62	1
11031	OCDD	3268-87-9	299	B	0.0935	11.2	1
11031	2378-TCDF	51207-31-9	0.206	JQ	0.0770	1.12	1
11031	12378-PeCDF	57117-41-6	0.350	J	0.0398	5.62	1
11031	23478-PeCDF	57117-31-4	0.140	JBQ	0.0380	5.62	1
11031	123478-HxCDF	70648-26-9	0.279	JB	0.0482	5.62	1
11031	123678-HxCDF	57117-44-9	0.175	JB	0.0439	5.62	1
11031	123789-HxCDF	72918-21-9	0.182	JB	0.0528	5.62	1
11031	234678-HxCDF	60851-34-5	0.197	JBQ	0.0443	5.62	1
11031	1234678-HpCDF	67562-39-4	1.22	JB	0.0476	5.62	1
11031	1234789-HpCDF	55673-89-7	0.151	JBQ	0.0627	5.62	1
11031	OCDF	39001-02-0	4.07	JB	0.0770	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	44	25 - 164
13C12-12378-PeCDD	57	25 - 181
13C12-123478-HxCDD	51	32 - 141
13C12-123678-HxCDD	52	28 - 130
13C12-123789-HxCDD	52	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	53	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	55	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-104-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182867
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1049 SDG#: DX039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5B-SB-9.0-10.0

LLI Sample # SW 6182867
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 09:38

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1049 SDG#: DX039-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 03:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182868
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL098 SDG#: DX039-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-098-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182868
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL098 SDG#: DX039-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0724	U	0.0724	1.14	1
11031	12378-PeCDD	40321-76-4	0.0691	U	0.0691	5.69	1
11031	123478-HxCDD	39227-28-6	0.0527	U	0.0527	5.69	1
11031	123678-HxCDD	57653-85-7	0.0701	JBQ	0.0522	5.69	1
11031	123789-HxCDD	19408-74-3	0.0783	JQ	0.0526	5.69	1
11031	1234678-HpCDD	35822-46-9	0.322	JB	0.0692	5.69	1
11031	OCDD	3268-87-9	1.42	JB	0.0592	11.4	1
11031	2378-TCDF	51207-31-9	0.0740	U	0.0740	1.14	1
11031	12378-PeCDF	57117-41-6	0.0369	U	0.0369	5.69	1
11031	23478-PeCDF	57117-31-4	0.0696	JBQ	0.0354	5.69	1
11031	123478-HxCDF	70648-26-9	0.0472	JBQ	0.0312	5.69	1
11031	123678-HxCDF	57117-44-9	0.0350	JB	0.0281	5.69	1
11031	123789-HxCDF	72918-21-9	0.108	JB	0.0329	5.69	1
11031	234678-HxCDF	60851-34-5	0.0631	JBQ	0.0301	5.69	1
11031	1234678-HpCDF	67562-39-4	0.299	JB	0.0262	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0754	JBQ	0.0331	5.69	1
11031	OCDF	39001-02-0	0.346	JBQ	0.101	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182868
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL098 SDG#: DX039-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-098-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA5B-SB-4.0-5.0

LLI Sample # SW 6182868
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 11:49

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL098 SDG#: DX039-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 07:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182869
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1034 SDG#: DX039-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182869
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1034 SDG#: DX039-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0950	JQ	0.0561	1.15	1
11031	12378-PeCDD	40321-76-4	0.135	JBQ	0.0622	5.76	1
11031	123478-HxCDD	39227-28-6	0.244	JB	0.0673	5.76	1
11031	123678-HxCDD	57653-85-7	0.581	JB	0.0725	5.76	1
11031	123789-HxCDD	19408-74-3	0.356	JQ	0.0695	5.76	1
11031	1234678-HpCDD	35822-46-9	18.8	B	0.107	5.76	1
11031	OCDD	3268-87-9	251	B	0.0801	11.5	1
11031	2378-TCDF	51207-31-9	0.154	JQ	0.0874	1.15	1
11031	12378-PeCDF	57117-41-6	0.344	JQ	0.0421	5.76	1
11031	23478-PeCDF	57117-31-4	0.176	JBQ	0.0429	5.76	1
11031	123478-HxCDF	70648-26-9	0.223	JB	0.0478	5.76	1
11031	123678-HxCDF	57117-44-9	0.169	JBQ	0.0454	5.76	1
11031	123789-HxCDF	72918-21-9	0.225	JB	0.0524	5.76	1
11031	234678-HxCDF	60851-34-5	0.247	JBQ	0.0461	5.76	1
11031	1234678-HpCDF	67562-39-4	3.00	JB	0.0553	5.76	1
11031	1234789-HpCDF	55673-89-7	0.204	JBQ	0.0692	5.76	1
11031	OCDF	39001-02-0	10.9	JB	0.0696	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	88	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182869
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1034 SDG#: DX039-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-4.0-5.0

LLI Sample # SW 6182869
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:24

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1034 SDG#: DX039-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 08:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182870
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1039 SDG#: DX039-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182870
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1039 SDG#: DX039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0386	U	0.0386	1.15	1
11031	12378-PeCDD	40321-76-4	0.0598	JBQ	0.0405	5.73	1
11031	123478-HxCDD	39227-28-6	0.0529	JBQ	0.0411	5.73	1
11031	123678-HxCDD	57653-85-7	0.222	JBQ	0.0432	5.73	1
11031	123789-HxCDD	19408-74-3	0.203	J	0.0414	5.73	1
11031	1234678-HpCDD	35822-46-9	4.17	JB	0.0517	5.73	1
11031	OCDD	3268-87-9	35.5	B	0.0585	11.5	1
11031	2378-TCDF	51207-31-9	0.0551	U	0.0551	1.15	1
11031	12378-PeCDF	57117-41-6	0.250	JQ	0.0320	5.73	1
11031	23478-PeCDF	57117-31-4	0.193	JBQ	0.0291	5.73	1
11031	123478-HxCDF	70648-26-9	0.235	JB	0.0381	5.73	1
11031	123678-HxCDF	57117-44-9	0.115	JB	0.0359	5.73	1
11031	123789-HxCDF	72918-21-9	0.166	JB	0.0377	5.73	1
11031	234678-HxCDF	60851-34-5	0.201	JBQ	0.0342	5.73	1
11031	1234678-HpCDF	67562-39-4	0.856	JB	0.0317	5.73	1
11031	1234789-HpCDF	55673-89-7	0.107	JBQ	0.0399	5.73	1
11031	OCDF	39001-02-0	1.36	JBQ	0.0647	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182870
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1039 SDG#: DX039-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5B-SB-9.0-10.0

LLI Sample # SW 6182870
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 12:34

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1039 SDG#: DX039-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 09:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182871
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-092-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182871
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0612 JQ	0.0372	1.13	1
11031	12378-PeCDD	40321-76-4	0.0797 JBQ	0.0354	5.66	1
11031	123478-HxCDD	39227-28-6	0.0429 U	0.0429	5.66	1
11031	123678-HxCDD	57653-85-7	0.225 JBQ	0.0439	5.66	1
11031	123789-HxCDD	19408-74-3	0.196 J	0.0402	5.66	1
11031	1234678-HpCDD	35822-46-9	2.50 JB	0.0553	5.66	1
11031	OCDD	3268-87-9	26.5 B	0.0475	11.3	1
11031	2378-TCDF	51207-31-9	0.0513 JQ	0.0485	1.13	1
11031	12378-PeCDF	57117-41-6	0.162 J	0.0279	5.66	1
11031	23478-PeCDF	57117-31-4	0.109 JB	0.0258	5.66	1
11031	123478-HxCDF	70648-26-9	0.121 JBQ	0.0317	5.66	1
11031	123678-HxCDF	57117-44-9	0.0908 JBQ	0.0298	5.66	1
11031	123789-HxCDF	72918-21-9	0.155 JBQ	0.0291	5.66	1
11031	234678-HxCDF	60851-34-5	0.153 JBQ	0.0291	5.66	1
11031	1234678-HpCDF	67562-39-4	0.674 JB	0.0223	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0970 JBQ	0.0342	5.66	1
11031	OCDF	39001-02-0	0.913 JBQ	0.0463	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	92	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182871
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182871
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 10:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182872
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-092-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182872
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.9		0.0604	1.13	1
11031	12378-PeCDD	40321-76-4	123	B	0.0660	5.66	1
11031	123478-HxCDD	39227-28-6	124	B	0.0807	5.66	1
11031	123678-HxCDD	57653-85-7	124	B	0.0814	5.66	1
11031	123789-HxCDD	19408-74-3	120		0.0828	5.66	1
11031	1234678-HpCDD	35822-46-9	124	B	0.0986	5.66	1
11031	OCDD	3268-87-9	262	B	0.0684	11.3	1
11031	2378-TCDF	51207-31-9	26.2		0.0663	1.13	1
11031	12378-PeCDF	57117-41-6	123		0.0552	5.66	1
11031	23478-PeCDF	57117-31-4	127	B	0.0479	5.66	1
11031	123478-HxCDF	70648-26-9	126	B	0.135	5.66	1
11031	123678-HxCDF	57117-44-9	129	B	0.127	5.66	1
11031	123789-HxCDF	72918-21-9	125	B	0.144	5.66	1
11031	234678-HxCDF	60851-34-5	126	B	0.116	5.66	1
11031	1234678-HpCDF	67562-39-4	124	B	0.0877	5.66	1
11031	1234789-HpCDF	55673-89-7	122	B	0.105	5.66	1
11031	OCDF	39001-02-0	251	B	0.0911	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	105	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	98	26 - 138
13C12-OCDF	92	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182872
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182872
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 11:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182873
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-092-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182873
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8		0.0686	1.13	1
11031	12378-PeCDD	40321-76-4	118	B	0.0605	5.66	1
11031	123478-HxCDD	39227-28-6	123	B	0.0810	5.66	1
11031	123678-HxCDD	57653-85-7	123	B	0.0808	5.66	1
11031	123789-HxCDD	19408-74-3	122		0.0752	5.66	1
11031	1234678-HpCDD	35822-46-9	123	B	0.0962	5.66	1
11031	OCDD	3268-87-9	261	B	0.0942	11.3	1
11031	2378-TCDF	51207-31-9	25.6		0.100	1.13	1
11031	12378-PeCDF	57117-41-6	126		0.0745	5.66	1
11031	23478-PeCDF	57117-31-4	125	B	0.0585	5.66	1
11031	123478-HxCDF	70648-26-9	125	B	0.115	5.66	1
11031	123678-HxCDF	57117-44-9	124	B	0.104	5.66	1
11031	123789-HxCDF	72918-21-9	123	B	0.103	5.66	1
11031	234678-HxCDF	60851-34-5	126	B	0.0980	5.66	1
11031	1234678-HpCDF	67562-39-4	125	B	0.0688	5.66	1
11031	1234789-HpCDF	55673-89-7	123	B	0.0834	5.66	1
11031	OCDF	39001-02-0	250	B	0.0861	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	97	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	103	28 - 130
13C12-1234678-HpCDD	107	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	100	28 - 136
13C12-123789-HxCDF	113	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	112	26 - 138
13C12-OCDF	104	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182873
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5B-SB-4.0-5.0

LLI Sample # SW 6182873
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:40

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL092 SDG#: DX039-06MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 12:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **DUP17-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182874
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX039-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP17-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182874
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX039-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0518	JQ	0.0459	1.12	1
11031	12378-PeCDD	40321-76-4	0.188	JBQ	0.0421	5.61	1
11031	123478-HxCDD	39227-28-6	0.121	JBQ	0.0553	5.61	1
11031	123678-HxCDD	57653-85-7	0.404	JB	0.0561	5.61	1
11031	123789-HxCDD	19408-74-3	0.341	JQ	0.0552	5.61	1
11031	1234678-HpCDD	35822-46-9	3.68	JB	0.0655	5.61	1
11031	OCDD	3268-87-9	27.5	B	0.0498	11.2	1
11031	2378-TCDF	51207-31-9	0.0967	JQ	0.0571	1.12	1
11031	12378-PeCDF	57117-41-6	0.264	JQ	0.0342	5.61	1
11031	23478-PeCDF	57117-31-4	0.311	JBQ	0.0318	5.61	1
11031	123478-HxCDF	70648-26-9	0.285	JB	0.0448	5.61	1
11031	123678-HxCDF	57117-44-9	0.248	JBQ	0.0418	5.61	1
11031	123789-HxCDF	72918-21-9	0.293	JB	0.0460	5.61	1
11031	234678-HxCDF	60851-34-5	0.271	JBQ	0.0422	5.61	1
11031	1234678-HpCDF	67562-39-4	0.926	JB	0.0284	5.61	1
11031	1234789-HpCDF	55673-89-7	0.158	JB	0.0382	5.61	1
11031	OCDF	39001-02-0	1.04	JB	0.0718	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP17-SA5B-QC-011211 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182874
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX039-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP17-SA5B-QC-011211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP17-SA5B-QC-011211

LLI Sample # SW 6182874
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 10:48

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX039-07FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 13:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182875
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL072 SDG#: DX039-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182875
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL072 SDG#: DX039-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0497	JQ	0.0451	1.13	1
11031	12378-PeCDD	40321-76-4	0.0855	JB	0.0455	5.66	1
11031	123478-HxCDD	39227-28-6	0.0407	U	0.0407	5.66	1
11031	123678-HxCDD	57653-85-7	0.0399	U	0.0399	5.66	1
11031	123789-HxCDD	19408-74-3	0.0931	JQ	0.0393	5.66	1
11031	1234678-HpCDD	35822-46-9	0.312	JBQ	0.0532	5.66	1
11031	OCDD	3268-87-9	0.739	JB	0.0617	11.3	1
11031	2378-TCDF	51207-31-9	0.0446	JQ	0.0431	1.13	1
11031	12378-PeCDF	57117-41-6	0.0383	JQ	0.0234	5.66	1
11031	23478-PeCDF	57117-31-4	0.138	JBQ	0.0249	5.66	1
11031	123478-HxCDF	70648-26-9	0.0832	JBQ	0.0276	5.66	1
11031	123678-HxCDF	57117-44-9	0.0863	JB	0.0264	5.66	1
11031	123789-HxCDF	72918-21-9	0.0608	JBQ	0.0316	5.66	1
11031	234678-HxCDF	60851-34-5	0.0991	JBQ	0.0273	5.66	1
11031	1234678-HpCDF	67562-39-4	0.305	JB	0.0229	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0399	JB	0.0325	5.66	1
11031	OCDF	39001-02-0	0.273	JBQ	0.0718	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182875
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL072 SDG#: DX039-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5B-SB-4.0-5.0

LLI Sample # SW 6182875
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:58

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL072 SDG#: DX039-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 14:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182876
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL071 SDG#: DX039-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182876
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL071 SDG#: DX039-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0469	U	0.0469	1.12	1
11031	12378-PeCDD	40321-76-4	0.0461	U	0.0461	5.61	1
11031	123478-HxCDD	39227-28-6	0.0337	U	0.0337	5.61	1
11031	123678-HxCDD	57653-85-7	0.0475	JBQ	0.0354	5.61	1
11031	123789-HxCDD	19408-74-3	0.0363	J	0.0337	5.61	1
11031	1234678-HpCDD	35822-46-9	0.325	JB	0.0546	5.61	1
11031	OCDD	3268-87-9	1.27	JB	0.0612	11.2	1
11031	2378-TCDF	51207-31-9	0.0457	U	0.0457	1.12	1
11031	12378-PeCDF	57117-41-6	0.0259	JQ	0.0210	5.61	1
11031	23478-PeCDF	57117-31-4	0.0507	JBQ	0.0207	5.61	1
11031	123478-HxCDF	70648-26-9	0.0231	U	0.0231	5.61	1
11031	123678-HxCDF	57117-44-9	0.0210	JB	0.0194	5.61	1
11031	123789-HxCDF	72918-21-9	0.0430	JBQ	0.0232	5.61	1
11031	234678-HxCDF	60851-34-5	0.0236	JBQ	0.0203	5.61	1
11031	1234678-HpCDF	67562-39-4	0.0885	JBQ	0.0211	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0272	U	0.0272	5.61	1
11031	OCDF	39001-02-0	0.146	JBQ	0.0623	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182876
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL071 SDG#: DX039-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5B-SB-2.0-3.0

LLI Sample # SW 6182876
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 15:49

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL071 SDG#: DX039-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 15:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-097-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182877
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0974 SDG#: DX039-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-097-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182877
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0974 SDG#: DX039-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0832	U	0.0832	1.15	1
11031	12378-PeCDD	40321-76-4	0.0615	U	0.0615	5.75	1
11031	123478-HxCDD	39227-28-6	0.0480	U	0.0480	5.75	1
11031	123678-HxCDD	57653-85-7	0.0474	U	0.0474	5.75	1
11031	123789-HxCDD	19408-74-3	0.0461	U	0.0461	5.75	1
11031	1234678-HpCDD	35822-46-9	0.191	JBQ	0.0825	5.75	1
11031	OCDD	3268-87-9	1.18	JBQ	0.0734	11.5	1
11031	2378-TCDF	51207-31-9	0.0751	U	0.0751	1.15	1
11031	12378-PeCDF	57117-41-6	0.0377	U	0.0377	5.75	1
11031	23478-PeCDF	57117-31-4	0.0382	JBQ	0.0337	5.75	1
11031	123478-HxCDF	70648-26-9	0.0315	U	0.0315	5.75	1
11031	123678-HxCDF	57117-44-9	0.0381	JBQ	0.0299	5.75	1
11031	123789-HxCDF	72918-21-9	0.0313	U	0.0313	5.75	1
11031	234678-HxCDF	60851-34-5	0.0310	U	0.0310	5.75	1
11031	1234678-HpCDF	67562-39-4	0.125	JBQ	0.0263	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0320	U	0.0320	5.75	1
11031	OCDF	39001-02-0	0.122	JBQ	0.0898	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	89	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-097-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182877
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0974 SDG#: DX039-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-097-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-4.0-5.0

LLI Sample # SW 6182877
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:36

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0974 SDG#: DX039-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/03/2011 16:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-097-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182878
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0977 SDG#: DX039-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-097-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182878
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0977 SDG#: DX039-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00833 JQ	0.00721	1.14	1
11031	12378-PeCDD	40321-76-4	0.0165 JB	0.00812	5.72	1
11031	123478-HxCDD	39227-28-6	0.0118 JB	0.00675	5.72	1
11031	123678-HxCDD	57653-85-7	0.0222 JBQ	0.00709	5.72	1
11031	123789-HxCDD	19408-74-3	0.0243 JQ	0.00686	5.72	1
11031	1234678-HpCDD	35822-46-9	0.218 JB	0.00938	5.72	1
11031	OCDD	3268-87-9	0.578 JB	0.0101	11.4	1
11031	2378-TCDF	51207-31-9	0.0109 JQ	0.00561	1.14	1
11031	12378-PeCDF	57117-41-6	0.0222 JQ	0.00343	5.72	1
11031	23478-PeCDF	57117-31-4	0.0603 JB	0.00309	5.72	1
11031	123478-HxCDF	70648-26-9	0.0531 JBQ	0.00789	5.72	1
11031	123678-HxCDF	57117-44-9	0.0564 JBQ	0.00721	5.72	1
11031	123789-HxCDF	72918-21-9	0.0401 JBQ	0.00835	5.72	1
11031	234678-HxCDF	60851-34-5	0.0806 JB	0.00709	5.72	1
11031	1234678-HpCDF	67562-39-4	0.319 JB	0.00595	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0580 JBQ	0.00847	5.72	1
11031	OCDF	39001-02-0	0.235 JBQ	0.0140	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-097-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182878
LLI Group # 1228896
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/12/2011 14:47

Submitted: 01/13/2011 09:20
Reported: 02/27/2011 15:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0977 SDG#: DX039-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-097-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5B-SB-7.0-8.0

LLI Sample # SW 6182878
LLI Group # 1228896
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Collected: 01/12/2011 14:47

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0977 SDG#: DX039-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 08:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228896
Reported: 02/27/11 at 03:21 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11026162401B	Sample number(s): 6182866-6182878								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11028001	Sample number(s): 6182866-6182878								
2378-TCDD	0.0422 U	0.0422	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0616 J	0.0398	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0323 J	0.0260	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0423 J	0.0275	5.00	ng/kg	110		76-134		
123789-HxCDD	0.0264 U	0.0264	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.283 J	0.0460	5.00	ng/kg	108		70-140		
OCDD	1.18 J	0.0364	10.0	ng/kg	108		78-144		
2378-TCDF	0.0466 U	0.0466	1.00	ng/kg	115		75-158		
12378-PeCDF	0.0233 U	0.0233	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0690 J	0.0237	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0615 J	0.0261	5.00	ng/kg	107		72-134		
123678-HxCDF	0.0812 J	0.0238	5.00	ng/kg	109		84-130		
123789-HxCDF	0.0494 J	0.0266	5.00	ng/kg	107		78-130		
234678-HxCDF	0.129 J	0.0248	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.457 J	0.0203	5.00	ng/kg	108		82-122		
1234789-HpCDF	0.0475 J	0.0269	5.00	ng/kg	108		78-138		
OCDF	0.319 J	0.0502	10.0	ng/kg	110		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11026162401B	Sample number(s): 6182866-6182878 BKG: P182855								
28a Moisture Content by 160.3						11.6	12.1	5	20
Batch number: 11028001	Sample number(s): 6182866-6182878 UNSPK: 6182871								
2378-TCDD	106	101	67-158	5	25				
12378-PeCDD	109	105	70-142	4	25				
123478-HxCDD	109	109	70-164	0	25				
123678-HxCDD	110	109	76-134	1	25				
123789-HxCDD	106	107	64-162	1	25				
1234678-HpCDD	108	106	70-140	1	25				
OCDD	104	103	78-144	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228896
Reported: 02/27/11 at 03:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	116	113	75-158	2	25				
12378-PeCDF	109	111	80-134	2	25				
23478-PeCDF	112	110	68-160	2	25				
123478-HxCDF	112	110	72-134	1	25				
123678-HxCDF	114	109	84-130	5	25				
123789-HxCDF	110	109	78-130	1	25				
234678-HxCDF	111	111	70-156	0	25				
1234678-HpCDF	109	110	82-122	1	25				
1234789-HpCDF	108	109	78-138	1	25				
OCDF	111	110	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11028001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6182866	80	93	81	87	83	92
6182867	44	58	50	53	53	54
6182868	72	80	74	80	75	87
6182869	75	80	77	80	79	84
6182870	79	87	78	83	85	90
6182871	74	79	74	79	80	96
6182872	78	85	80	82	89	84
6182873	87	94	87	92	100	113
6182874	83	95	83	88	87	93
6182875	68	67	69	72	69	72
6182876	73	83	65	75	73	75
6182877	68	85	74	78	74	88
6182878	77	80	63	69	65	63
Blank	77	83	85	90	88	94
MS	78	85	80	82	89	84
MSD	87	94	87	92	100	113
OPR	75	87	79	84	81	89
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6182866	92	93	91	94	95	83
6182867	57	56	54	55	57	51
6182868	91	92	76	90	75	73
6182869	87	87	88	88	88	78
6182870	90	86	81	90	90	83
6182871	97	81	92	91	88	80
6182872	95	98	92	91	86	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228896
Reported: 02/27/11 at 03:21 PM

Surrogate Quality Control

6182873	105	112	104	87	98	97
6182874	98	92	85	94	97	88
6182875	82	71	67	84	70	67
6182876	72	69	55	86	86	72
6182877	85	89	84	80	87	73
6182878	69	55	44	92	83	80
Blank	99	96	101	97	83	86
MS	95	98	92	91	86	87
MSD	105	112	104	87	98	97
OPR	93	89	85	91	91	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6182866	82	82	90	94	81	92
6182867	52	52	57	57	50	60
6182868	75	73	87	79	71	83
6182869	77	77	87	94	75	86
6182870	82	84	90	90	80	86
6182871	80	83	78	96	76	78
6182872	89	87	105	104	78	81
6182873	97	103	107	108	91	78
6182874	87	88	94	92	85	94
6182875	68	71	79	79	75	74
6182876	72	75	69	59	74	86
6182877	74	74	83	82	73	81
6182878	81	80	76	61	74	77
Blank	89	89	97	107	81	89
MS	89	87	105	104	78	81
MSD	97	103	107	108	91	78
OPR	80	80	91	92	76	90
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1228896 G1828666-78

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Sampler's Signature: [signature]

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Diisopropyl EPA 16136	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 6850	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-104-SA5B-SB-4.0-5.0	01.12.1	0928	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-4.5	01.12.1	0925	SOIL	NONE	5 ENCORES											X	X	X											
SL-104-SA5B-SB-9.0-10.0	01.12.1	0938	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-9.5	01.12.1	0933	SOIL	NONE	5 ENCORES											X	X	X											
SL-096-SA5B-SB-4.0-5.0	01.12.1	1149	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-096-SA5B-SB-4.5	01.12.1	1145	SOIL	NONE	5 ENCORES											X	X	X											
SL-095-SA5B-SB-4.0-5.0MS	01.12.1	0916	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X	X																
SL-095-SA5B-SB-4.5MS	01.12.1	0910	SOIL	NONE	12 ENCORES											X	X												
DUP16-SA5B-SB-011211	01.12.1	0924	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
DUP18-SA5B-SB-011211	01.12.1	0919	SOIL	NONE	4 ENCORES											X	X												
SL-096-SA5B-SB-2.0-3.0	01.12.1	1019	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-096-SA5B-SB-2.5	01.12.1	1015	SOIL	NONE	4 ENCORES											X	X												
SL-102-SA5B-SB-4.0-5.0	01.12.1	1224	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-102-SA5B-SB-4.5	01.12.1	1220	SOIL	NONE	5 ENCORES											X	X	X											
SL-103-SA5B-SB-9.0-10.0	01.12.1	1234	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-9.5	01.12.1	1230	SOIL	NONE	5 ENCORES											X	X	X											
SL-092-SA5B-SB-4.0-5.0MS	01.12.1	1040	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-092-SA5B-SB-4.5MS	01.12.1	1035	SOIL	NONE	15 ENCORES											X	X	X											
DUP17-SA5B-SB-011211	01.12.1	1048	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
DUP17-SA5B-SB-011211	01.12.1	1048	SOIL	NONE	5 ENCORES											X	X	X											
SL072-SA5B-SB-4.0-5.0	01.12.1	1456	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL072-SA5B-SB-4.5	01.12.1	1454	SOIL	NONE	5 ENCORES											X	X	X											
SL-071-SA5B-SB-2.0-3.0	01.12.1	1549	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-071-SA5B-SB-2_5	01.12.1	1545	SOIL	NONE	5 ENCORES											X	X	X											
SL-097-SA5B-SB-7.0-8.0	01.12.1	1438	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-4.5	01.12.1	1432	SOIL	NONE	5 ENCORES											X	X	X											
SL-097-SA5B-SB-7.0-8.0	01.12.1	1447	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-7.5	01.12.1	1442	SOIL	NONE	5 ENCORES											X	X	X											
TB-011211	01.12.1	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
[signature]	1/12/2011, 16:30	[signature] 1/13/11	PZC	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)		No. of coolers = 4
		8695 1431 8954, ...1432 0085, ...0018, ...0827		

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6857/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A(surface soil only)	*Herbicides EPA 8151(surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-104-SA5B-SB-4.0-5.0	01.12.11	0928	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-4.5	01.12.11	0925	SOIL	NONE	5 ENCORES											X	X	X											
SL-104-SA5B-SB-9.0-10.0	01.12.11	0938	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-104-SA5B-SB-9.5	01.12.11	0933	SOIL	NONE	5 ENCORES											X	X	X											
SL-098-SA5B-SB-4.0-5.0	01.12.11	1149	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-098-SA5B-SB-4.5	01.12.11	1145	SOIL	NONE	5 ENCORES											X	X	X											
SL-095-SA5B-SB-4.0-5.0MS	01.12.11	0916	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X	X																
SL-095-SA5B-SB-4.5MS	01.12.11	0910	SOIL	NONE	12 ENCORES											X	X												
DUP18-SA5B-QC-011211	01.12.11	0924	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
DUP18-SA5B-QC-011211	01.12.11	0919	SOIL	NONE	4 ENCORES											X	X												
SL-096-SA5B-SB-2.0-3.0	01.12.11	1019	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-096-SA5B-SB-2.5	01.12.11	1015	SOIL	NONE	4 ENCORES											X	X												
SL-103-SA5B-SB-4.0-5.0	01.12.11	1224	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-4.5	01.12.11	1220	SOIL	NONE	5 ENCORES											X	X	X											
SL-103-SA5B-SB-9.0-10.0	01.12.11	1234	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-103-SA5B-SB-9.5	01.12.11	1230	SOIL	NONE	5 ENCORES											X	X	X											
SL-092-SA5B-SB-4.0-5.0MS	01.12.11	1040	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-092-SA5B-SB-4.5MS	01.12.11	1038	SOIL	NONE	15 ENCORES											X	X	X											
DUP17-SA5B-QC-011211	01.12.11	1048	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
DUP17-SA5B-QC-011211	01.12.11	1048	SOIL	NONE	5 ENCORES											X	X	X											
SL-072-SA5B-SB-4.0-5.0	01.12.11	1458	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-072-SA5B-SB-4.5	01.12.11	1454	SOIL	NONE	5 ENCORES											X	X	X											
SL-071-SA5B-SB-2.0-3.0	01.12.11	1549	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-071-SA5B-SB-2..5	01.12.11	1545	SOIL	NONE	5 ENCORES											X	X	X											
SL-097-SA5B-SB-4.0-5.0	01.12.11	1436	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-4.5	01.12.11	1432	SOIL	NONE	5 ENCORES											X	X	X											
SL-097-SA5B-SB-7.0-8.0	01.12.11	1447	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-097-SA5B-SB-7.5	01.12.11	1442	SOIL	NONE	5 ENCORES											X	X	X											
TB-011211	01.12.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	1/12/2011, 16:30		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	No. of coolers =

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Friday, January 21, 2011 4:48 PM
To: Nicole Maljovec
Cc: Bloisa, Peggy; Burgesser, Todd
Subject: Revised COC
Attachments: COC_sub_&_surface_samples_01_12_11-REVISED.xls

Hi Nicole,

I found an error on the COC dated 1/12/2011. The following sample IDs have been changed. A revised copy is attached.

DUP17-SA5B-SB-011211 was changed to DUP17-SA5B-QC-011211
DUP18-SA5B-SB-011211 was changed to DUP18-SA5B-QC-011211

Sorry for the delay!

Todd, I have made the appropriate corrections in the tracking sheet and will update that for you this evening.

Thanks all!

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
Please consider the environment before printing this e-mail.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/14/2011
Group Number: 1229054
SDG: DE060
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-073-SA5B-SB-4.0-5.0 Soil	6183546
SL-301-SA5B-SB-4.0-5.0 Soil	6183547
SL-301-SA5B-SB-7.5-8.5 Soil	6183548
SL-074-SA5B-SB-4.0-5.0 Soil	6183549
SL-074-SA5B-SB-7.0-8.0 Soil	6183550
SL-121-SA5B-SB-4.0-5.0 Soil	6183551
SL-121-SA5B-SB-9.0-10.0 Soil	6183552
SL-120-SA5B-SB-3.0-4.0 Soil	6183553
SL-119-SA5B-SB-3.0-4.0 Soil	6183554
SED-009-SIV-SD-0.0-0.5 Sediment	6183555
SED-028-SIV-SD-0.0-0.5 Sediment	6183556
SL-122-SA5B-SB-2.0-3.0 Soil	6183557
EB20-SA5B-011311 Water	6183558
EB21-SA5B-011311 Water	6183559
TB-011311 Water	6183560

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

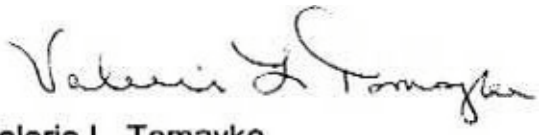

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-073-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183546
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE060-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8	0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4	0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4	0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	0.97
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4	0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8	0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4	0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4	0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4	0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5	0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4	0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	0.97
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4	0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4	0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4	0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	0.97
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4	0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4	0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5	0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8	0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8	0.97
06192	Methylene Chloride	75-09-2	0.57	J	0.27	4.4	0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	0.97

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183546
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE060-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.4	0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4	0.97
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4	0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4	0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4	0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	20.23
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183546
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE060-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	26	J	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183546
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE060-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,400		27.6	110	5
07914	Boron	7440-42-8	4.89	U	4.89	27.5	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	5,390		6.74	22.0	1
01654	Iron	7439-89-6	44,900		25.9	110	5
01656	Lithium	7439-93-2	53.7		0.24	2.2	1
01657	Magnesium	7439-95-4	9,860		2.79	11.0	1
06958	Manganese	7439-96-5	375		0.0857	0.549	1
10145	Phosphorus	7723-14-0	727		3.08	54.9	5
01662	Potassium	7440-09-7	3,810		98.9	275	5
01667	Sodium	7440-23-5	641		41.0	110	1
07968	Strontium	7440-24-6	37.5		0.0681	0.549	1
06969	Tin	7440-31-5	3.41	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,940		2.09	5.49	5
10146	Zirconium	7440-67-7	1.25	J	0.923	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.311		0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.4		0.0879	0.440	2
06126	Barium	7440-39-3	163		0.119	0.440	2
06127	Beryllium	7440-41-7	1.28		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.132		0.0440	0.110	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183546
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE060-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	36.0	0.132	0.440	2
06132	Cobalt	7440-48-4	10.9	0.0220	0.110	2
06133	Copper	7440-50-8	23.5	0.0725	0.440	2
06135	Lead	7439-92-1	15.6	0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.662	0.0549	0.110	2
06139	Nickel	7440-02-0	19.3	0.110	0.440	2
06141	Selenium	7782-49-2	0.149 J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0698 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.380	0.0330	0.110	2
06148	Vanadium	7440-62-2	66.9	0.0242	0.110	2
06149	Zinc	7440-66-6	86.5	0.615	3.30	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0054 J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.3	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	440	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-073-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-073-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183546
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE060-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/17/2011 22:06	Laura M Krieger	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 16:20	Jason M Long	20.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101423510	01/14/2011 14:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101423510	01/14/2011 14:52	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 09:27	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 10:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/26/2011 16:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 20:15	John P Hook	5
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 20:15	John P Hook	5
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 20:11	John P Hook	1
01654	Iron	SW-846 6010B	1	110195708001	01/21/2011 20:15	John P Hook	5
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 20:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 20:11	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 20:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 20:15	John P Hook	5
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 20:15	John P Hook	5
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 20:11	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 20:11	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 20:11	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 20:15	John P Hook	5
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 20:11	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:22	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:22	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-073-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183546
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL073 SDG#: DE060-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 11:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 08:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/24/2011 19:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11025243202A	01/29/2011 15:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-301-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183547
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3014 SDG#: DE060-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9	0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9	0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9	0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9	0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9	0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9	0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9	0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9	0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9	0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9	0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9	0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9	0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9	0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9	0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9	0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9	0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9	0.88
06192	Methylene Chloride	75-09-2	0.45	J	0.24	3.9	0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.88

*=This limit was used in the evaluation of the final result

Sample Description: SL-301-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183547
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3014 SDG#: DE060-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9	0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9	0.88
06192	Toluene	108-88-3	0.08	U	0.08	3.9	0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9	0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9	0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9	0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9	0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9	0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9	0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9	0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14	21.51
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-301-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183547
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3014 SDG#: DE060-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-301-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183547
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3014 SDG#: DE060-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	8.7	J	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
	Di-n-octylphthalate was detected in the method blank at a concentration of 7.7 ug/kg. The blank value was not subtracted from the analytical result.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,700		5.59	22.2	1
07914	Boron	7440-42-8	4.94	U	4.94	27.8	5
	Reporting limits for boron were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,590		6.81	22.2	1
01654	Iron	7439-89-6	27,900		26.2	111	5
01656	Lithium	7439-93-2	36.9		0.24	2.2	1
01657	Magnesium	7439-95-4	6,030		2.82	11.1	1
06958	Manganese	7439-96-5	284		0.0867	0.556	1
10145	Phosphorus	7723-14-0	238		0.622	11.1	1
01662	Potassium	7440-09-7	2,290		20.0	55.6	1
01667	Sodium	7440-23-5	195		41.4	111	1
07968	Strontium	7440-24-6	27.5		0.0689	0.556	1
06969	Tin	7440-31-5	3.01	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,370		0.422	1.11	1
10146	Zirconium	7440-67-7	2.28	J	0.933	5.56	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0648	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-301-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183547
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3014 SDG#: DE060-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.61	0.0863	0.432	2
06126	Barium	7440-39-3	129	0.117	0.432	2
06127	Beryllium	7440-41-7	0.788	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.171	0.0432	0.108	2
06131	Chromium	7440-47-3	25.5	0.130	0.432	2
06132	Cobalt	7440-48-4	6.25	0.0216	0.108	2
06133	Copper	7440-50-8	13.2	0.0712	0.432	2
06135	Lead	7439-92-1	7.55	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.384	0.0540	0.108	2
06139	Nickel	7440-02-0	16.3	0.108	0.432	2
06141	Selenium	7782-49-2	0.0836 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0540 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.322	0.0324	0.108	2
06148	Vanadium	7440-62-2	44.1	0.0237	0.108	2
06149	Zinc	7440-66-6	65.7	0.604	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	421	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.38	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183547
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3014 SDG#: DE060-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-301-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/17/2011 22:28	Laura M Krieger	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 16:40	Jason M Long	21.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101423510	01/14/2011 14:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101423510	01/14/2011 14:55	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 10:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 11:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/26/2011 17:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/24/2011 13:00	Eric L Eby	5
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/24/2011 13:00	Eric L Eby	5
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 20:18	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 20:18	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/23/2011 18:26	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183547
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3014 SDG#: DE060-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/23/2011 18:26	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:26	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 11:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/24/2011 20:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11025243202A	01/29/2011 15:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183548
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3047 SDG#: DE060-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	48	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183548
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3047 SDG#: DE060-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	8.6	J	7.0	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1

Di-n-octylphthalate was detected in the method blank at a concentration of 7.7 ug/kg. The blank value was not subtracted from the analytical result.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183548
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3047 SDG#: DE060-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.72	22.7	1
07914	Boron	7440-42-8	1.01	U	1.01	5.69	1
01650	Calcium	7440-70-2	2,710		6.97	22.7	1
01654	Iron	7439-89-6	21,100		5.36	22.7	1
01656	Lithium	7439-93-2	37.5		0.25	2.3	1
01657	Magnesium	7439-95-4	4,340		2.89	11.4	1
06958	Manganese	7439-96-5	197		0.0887	0.569	1
10145	Phosphorus	7723-14-0	213		0.637	11.4	1
01662	Potassium	7440-09-7	1,600		20.5	56.9	1
01667	Sodium	7440-23-5	156		42.4	114	1
07968	Strontium	7440-24-6	13.9		0.0705	0.569	1
06969	Tin	7440-31-5	2.48	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,060		0.432	1.14	1
10146	Zirconium	7440-67-7	1.79	J	0.955	5.69	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0737	J	0.0682	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.93		0.0910	0.455	2
06126	Barium	7440-39-3	68.6		0.123	0.455	2
06127	Beryllium	7440-41-7	0.600		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.0663	J	0.0455	0.114	2
06131	Chromium	7440-47-3	19.2		0.136	0.455	2
06132	Cobalt	7440-48-4	4.32		0.0227	0.114	2
06133	Copper	7440-50-8	9.32		0.0751	0.455	2
06135	Lead	7439-92-1	5.81		0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.483		0.0569	0.114	2
06139	Nickel	7440-02-0	11.0		0.114	0.455	2
06141	Selenium	7782-49-2	0.0455	U	0.0455	0.455	2
06142	Silver	7440-22-4	0.106	J	0.0136	0.114	2
06145	Thallium	7440-28-0	0.222		0.0341	0.114	2
06148	Vanadium	7440-62-2	35.4		0.0250	0.114	2
06149	Zinc	7440-66-6	46.2		0.637	3.41	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0056	J	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-301-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183548
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3047 SDG#: DE060-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	425		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.86		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.8		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 11:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 12:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/26/2011 17:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 20:22	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 20:22	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-301-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183548
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3047 SDG#: DE060-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 20:22	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:29	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:29	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 10:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/24/2011 20:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11025243202A	01/29/2011 16:09	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183549
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE060-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.7	0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.83
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.83
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.83
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7	0.83
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9	0.83
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.83
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.83
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.83
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.83
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.83
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.83
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8	0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9	0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9	0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.83
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9	0.83
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.83
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.83
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9	0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9	0.83
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9	0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9	0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.83
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8	0.83
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7	0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9	0.83
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7	0.83
06192	Methylene Chloride	75-09-2	0.63	J	0.23	3.9	0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.83

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183549
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE060-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9	0.83
06192	Toluene	108-88-3	0.08	J	0.08	3.9	0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9	0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9	0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.83
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.83
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9	0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9	0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9	0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	20.97
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183549
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE060-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183549
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE060-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	8.9	J	7.0	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
	Di-n-octylphthalate was detected in the method blank at a concentration of 7.7 ug/kg. The blank value was not subtracted from the analytical result.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.61	22.3	1
07914	Boron	7440-42-8	4.96	U	4.96	27.9	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,950		6.84	22.3	1
01654	Iron	7439-89-6	35,400		26.3	112	5
01656	Lithium	7439-93-2	39.6		0.25	2.2	1
01657	Magnesium	7439-95-4	7,060		2.83	11.2	1
06958	Manganese	7439-96-5	452		0.0870	0.558	1
10145	Phosphorus	7723-14-0	288		0.625	11.2	1
01662	Potassium	7440-09-7	2,920		20.1	55.8	1
01667	Sodium	7440-23-5	272		41.6	112	1
07968	Strontium	7440-24-6	26.7		0.0692	0.558	1
06969	Tin	7440-31-5	3.00	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,460		0.424	1.12	1
10146	Zirconium	7440-67-7	1.66	J	0.937	5.58	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.195	J	0.0669	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.39		0.0892	0.446	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183549
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE060-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	129	0.120	0.446	2
06127	Beryllium	7440-41-7	1.03	0.0178	0.112	2
06128	Cadmium	7440-43-9	0.182	0.0446	0.112	2
06131	Chromium	7440-47-3	31.6	0.134	0.446	2
06132	Cobalt	7440-48-4	12.4	0.0223	0.112	2
06133	Copper	7440-50-8	17.9	0.0736	0.446	2
06135	Lead	7439-92-1	12.9	0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.580	0.0558	0.112	2
06139	Nickel	7440-02-0	19.0	0.112	0.446	2
06141	Selenium	7782-49-2	0.121 J	0.0446	0.446	2
06142	Silver	7440-22-4	0.0588 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.385	0.0335	0.112	2
06148	Vanadium	7440-62-2	57.2	0.0245	0.112	2
06149	Zinc	7440-66-6	74.1	0.625	3.35	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2	0.93	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	457	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.21	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183549
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE060-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-074-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/17/2011 22:51	Laura M Krieger	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 17:00	Jason M Long	20.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101423510	01/14/2011 14:57	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101423510	01/14/2011 14:58	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 11:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 12:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/26/2011 18:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 20:31	John P Hook	5
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
01654	Iron	SW-846 6010B	1	110195708001	01/21/2011 20:31	John P Hook	5
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 20:26	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 20:26	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183549
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE060-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:32	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:32	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 11:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201A	01/24/2011 21:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11025243202A	01/29/2011 16:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201A	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102A	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402A	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183550
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0747 SDG#: DE060-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183550
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0747 SDG#: DE060-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	8.8	J	7.1	21	1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0	1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0	1

Di-n-octylphthalate was detected in the method blank at a concentration of 7.7 ug/kg. The blank value was not subtracted from the analytical result.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0	1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0	1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183550
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0747 SDG#: DE060-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,700		5.70	22.7	1
07914	Boron	7440-42-8	5.05	U	5.05	28.3	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	5,140		6.95	22.7	1
01654	Iron	7439-89-6	40,700		26.7	113	5
01656	Lithium	7439-93-2	63.9		0.25	2.3	1
01657	Magnesium	7439-95-4	7,900		2.88	11.3	1
06958	Manganese	7439-96-5	269		0.0884	0.567	1
10145	Phosphorus	7723-14-0	609		0.635	11.3	1
01662	Potassium	7440-09-7	2,630		20.4	56.7	1
01667	Sodium	7440-23-5	325		42.3	113	1
07968	Strontium	7440-24-6	29.2		0.0703	0.567	1
06969	Tin	7440-31-5	3.21	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,620		0.431	1.13	1
10146	Zirconium	7440-67-7	2.53	J	0.952	5.67	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.442		0.0680	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	18.4		0.0907	0.454	2
06126	Barium	7440-39-3	122		0.122	0.454	2
06127	Beryllium	7440-41-7	1.09		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.183		0.0454	0.113	2
06131	Chromium	7440-47-3	36.8		0.136	0.454	2
06132	Cobalt	7440-48-4	7.15		0.0227	0.113	2
06133	Copper	7440-50-8	26.1		0.0748	0.454	2
06135	Lead	7439-92-1	15.0		0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.808		0.0567	0.113	2
06139	Nickel	7440-02-0	20.8		0.113	0.454	2
06141	Selenium	7782-49-2	0.135	J	0.0454	0.454	2
06142	Silver	7440-22-4	0.167		0.0136	0.113	2
06145	Thallium	7440-28-0	0.359		0.0340	0.113	2
06148	Vanadium	7440-62-2	63.0		0.0249	0.113	2
06149	Zinc	7440-66-6	92.5		0.635	3.40	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0218	J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.5		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183550
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0747 SDG#: DE060-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	348		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.81		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 11:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 13:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/26/2011 18:33	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 20:38	John P Hook	5
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
01654	Iron	SW-846 6010B	1	110195708001	01/21/2011 20:38	John P Hook	5
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 20:34	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183550
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0747 SDG#: DE060-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 20:34	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:35	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:35	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 11:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201B	01/24/2011 21:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11025243202A	01/29/2011 16:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201B	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-121-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183551
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1214 SDG#: DE060-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.5	U	6.5	7.8	0.9
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.9
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.9
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.9
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8	0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.9
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.9
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.9
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9	0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9	0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9	0.9
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.9
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9	0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9	0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9	0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.9
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.9
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9	0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8	0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9	0.9
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8	0.9
06192	Methylene Chloride	75-09-2	0.77	J	0.23	3.9	0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.9

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183551
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1214 SDG#: DE060-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9	0.9
06192	Toluene	108-88-3	0.12	J	0.08	3.9	0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9	0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9	0.9
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.9
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.9
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9	0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9	0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9	0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	23.15
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183551
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1214 SDG#: DE060-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183551
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1214 SDG#: DE060-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	8.0	J	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
	Di-n-octylphthalate was detected in the method blank at a concentration of 7.7 ug/kg. The blank value was not subtracted from the analytical result.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8	1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8	1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		5.38	21.4	1
07914	Boron	7440-42-8	0.953	U	0.953	5.35	1
01650	Calcium	7440-70-2	3,140		6.56	21.4	1
01654	Iron	7439-89-6	16,700		5.04	21.4	1
01656	Lithium	7439-93-2	19.7		0.24	2.1	1
01657	Magnesium	7439-95-4	3,700		2.72	10.7	1
06958	Manganese	7439-96-5	530		0.0835	0.535	1
10145	Phosphorus	7723-14-0	429		0.599	10.7	1
01662	Potassium	7440-09-7	2,130		19.3	53.5	1
01667	Sodium	7440-23-5	68.0	J	39.9	107	1
07968	Strontium	7440-24-6	11.0		0.0664	0.535	1
06969	Tin	7440-31-5	2.15	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,010		0.407	1.07	1
10146	Zirconium	7440-67-7	1.92	J	0.899	5.35	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0839	J	0.0642	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.92		0.0856	0.428	2
06126	Barium	7440-39-3	76.1		0.116	0.428	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183551
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1214 SDG#: DE060-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.436		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.0657	J	0.0428	0.107	2
06131	Chromium	7440-47-3	16.2		0.128	0.428	2
06132	Cobalt	7440-48-4	4.94		0.0214	0.107	2
06133	Copper	7440-50-8	9.18		0.0706	0.428	2
06135	Lead	7439-92-1	4.24		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.206		0.0535	0.107	2
06139	Nickel	7440-02-0	12.0		0.107	0.428	2
06141	Selenium	7782-49-2	0.117	J	0.0428	0.428	2
06142	Silver	7440-22-4	0.0157	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.210		0.0321	0.107	2
06148	Vanadium	7440-62-2	26.4		0.0235	0.107	2
06149	Zinc	7440-66-6	48.6		0.599	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	J	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	349		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.04		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: **SL-121-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183551
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1214 SDG#: DE060-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-121-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/17/2011 23:36	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 17:20	Jason M Long	23.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101423510	01/14/2011 15:01	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 12:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 13:49	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/26/2011 18:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 20:42	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 20:42	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 20:42	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183551
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1214 SDG#: DE060-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:38	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:38	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 12:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201B	01/24/2011 22:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11025243202A	01/29/2011 16:40	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201B	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-121-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183552
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1219 SDG#: DE060-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	220	U	220	650	1
04688	Benzidine	92-87-5	1,500	U	1,500	4,300	1
04688	Benzoic acid	65-85-0	220	U	220	650	1
04688	Benzyl alcohol	100-51-6	220	U	220	650	1
04688	4-Bromophenyl-phenylether	101-55-3	22	U	22	220	1
04688	Carbazole	86-74-8	22	U	22	220	1
04688	4-Chloro-3-methylphenol	59-50-7	43	U	43	220	1
04688	4-Chloroaniline	106-47-8	87	U	87	220	1
04688	bis(2-Chloroethoxy)methane	111-91-1	22	U	22	220	1
04688	bis(2-Chloroethyl)ether	111-44-4	22	U	22	220	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	22	U	22	220	1
04688	2-Chloronaphthalene	91-58-7	22	U	22	220	1
04688	2-Chlorophenol	95-57-8	22	U	22	220	1
04688	4-Chlorophenyl-phenylether	7005-72-3	43	U	43	220	1
04688	Dibenzofuran	132-64-9	22	U	22	220	1
04688	1,2-Dichlorobenzene	95-50-1	22	U	22	220	1
04688	1,3-Dichlorobenzene	541-73-1	22	U	22	220	1
04688	1,4-Dichlorobenzene	106-46-7	22	U	22	220	1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	430	1
04688	2,4-Dichlorophenol	120-83-2	22	U	22	220	1
04688	2,4-Dimethylphenol	105-67-9	43	U	43	220	1
04688	3,5-Dimethylphenol	108-68-9	43	U	43	220	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	220	U	220	650	1
04688	2,4-Dinitrophenol	51-28-5	870	U	870	2,600	1
04688	2,4-Dinitrotoluene	121-14-2	43	U	43	220	1
04688	2,6-Dinitrotoluene	606-20-2	22	U	22	220	1
04688	1,2-Diphenylhydrazine	122-66-7	22	U	22	220	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	22	430	1
04688	Hexachlorobenzene	118-74-1	22	U	22	220	1
04688	Hexachlorobutadiene	87-68-3	87	U	87	220	1
04688	Hexachlorocyclopentadiene	77-47-4	220	U	220	650	1
04688	Hexachloroethane	67-72-1	22	U	22	220	1
04688	Isophorone	78-59-1	22	U	22	220	1
04688	2-Methylphenol	95-48-7	43	U	43	220	1
04688	4-Methylphenol	106-44-5	43	U	43	220	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	22	U	22	220	1
04688	3-Nitroaniline	99-09-2	43	U	43	220	1
04688	4-Nitroaniline	100-01-6	87	U	87	220	1
04688	Nitrobenzene	98-95-3	22	U	22	220	1
04688	2-Nitrophenol	88-75-5	22	U	22	220	1
04688	4-Nitrophenol	100-02-7	220	U	220	650	1
04688	N-Nitroso-di-n-propylamine	621-64-7	22	U	22	220	1
04688	N-Nitrosodiphenylamine	86-30-6	22	U	22	220	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	220	U	220	650	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183552
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1219 SDG#: DE060-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	22	U	22	220	1
04688	1,2,4-Trichlorobenzene	120-82-1	22	U	22	220	1
04688	2,4,5-Trichlorophenol	95-95-4	43	U	43	220	1
04688	2,4,6-Trichlorophenol	88-06-2	43	U	43	220	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.87	U	0.87	2.2	1
10138	Acenaphthylene	208-96-8	0.43	U	0.43	2.2	1
10138	Anthracene	120-12-7	0.43	U	0.43	2.2	1
10138	Benzo(a)anthracene	56-55-3	0.87	U	0.87	2.2	1
10138	Benzo(a)pyrene	50-32-8	0.87	U	0.87	2.2	1
10138	Benzo(b)fluoranthene	205-99-2	0.87	U	0.87	2.2	1
10138	Benzo(g,h,i)perylene	191-24-2	0.87	U	0.87	2.2	1
10138	Benzo(k)fluoranthene	207-08-9	0.87	U	0.87	2.2	1
10138	Butylbenzylphthalate	85-68-7	7.8	U	7.8	23	1
10138	Di-n-butylphthalate	84-74-2	7.8	U	7.8	23	1
10138	Chrysene	218-01-9	0.43	U	0.43	2.2	1
10138	Dibenz(a,h)anthracene	53-70-3	0.87	U	0.87	2.2	1
10138	Diethylphthalate	84-66-2	7.8	U	7.8	23	1
10138	Dimethylphthalate	131-11-3	7.8	U	7.8	23	1
10138	Fluoranthene	206-44-0	0.87	U	0.87	2.2	1
10138	Fluorene	86-73-7	0.87	U	0.87	2.2	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.87	U	0.87	2.2	1
10138	1-Methylnaphthalene	90-12-0	0.87	U	0.87	2.2	1
10138	2-Methylnaphthalene	91-57-6	0.87	U	0.87	2.2	1
10138	Naphthalene	91-20-3	0.87	U	0.87	2.2	1
10138	N-Nitrosodimethylamine	62-75-9	0.87	U	0.87	2.2	1
10138	Di-n-octylphthalate	117-84-0	9.8	J	7.8	23	1
10138	Phenanthrene	85-01-8	0.87	U	0.87	2.2	1
10138	Pyrene	129-00-0	0.87	U	0.87	2.2	1

Di-n-octylphthalate was detected in the method blank at a concentration of 7.7 ug/kg. The blank value was not subtracted from the analytical result.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3	1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3	1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.3	1
10225	PCB-1016	12674-11-2	0.43	U	0.43	2.2	1
10225	PCB-1221	11104-28-2	0.65	U	0.65	2.2	1
10225	PCB-1232	11141-16-5	0.68	U	0.68	2.2	1
10225	PCB-1242	53469-21-9	0.65	U	0.65	2.2	1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2	1
10225	PCB-1254	11097-69-1	0.43	U	0.43	2.2	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	2.2	1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2	1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183552
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1219 SDG#: DE060-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,500		31.7	126	5
07914	Boron	7440-42-8	5.61	U	5.61	31.5	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	12,200		7.73	25.2	1
01654	Iron	7439-89-6	61,000		29.7	126	5
01656	Lithium	7439-93-2	67.2		0.28	2.5	1
01657	Magnesium	7439-95-4	14,000		3.20	12.6	1
06958	Manganese	7439-96-5	640		0.0983	0.630	1
10145	Phosphorus	7723-14-0	2,020		3.53	63.0	5
01662	Potassium	7440-09-7	5,350		113	315	5
01667	Sodium	7440-23-5	522		47.0	126	1
07968	Strontium	7440-24-6	54.4		0.0782	0.630	1
06969	Tin	7440-31-5	3.08	J	1.26	12.6	1
06970	Titanium	7440-32-6	2,170		2.40	6.30	5
10146	Zirconium	7440-67-7	1.83	J	1.06	6.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0779	0.260	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.19		0.104	0.519	2
06126	Barium	7440-39-3	399		0.351	1.30	5
06127	Beryllium	7440-41-7	1.66		0.0208	0.130	2
06128	Cadmium	7440-43-9	0.226		0.0519	0.130	2
06131	Chromium	7440-47-3	62.1		0.156	0.519	2
06132	Cobalt	7440-48-4	16.1		0.0260	0.130	2
06133	Copper	7440-50-8	35.3		0.0857	0.519	2
06135	Lead	7439-92-1	13.3		0.0135	0.260	2
06138	Molybdenum	7439-98-7	0.945		0.0649	0.130	2
06139	Nickel	7440-02-0	40.5		0.130	0.519	2
06141	Selenium	7782-49-2	0.0697	J	0.0519	0.519	2
06142	Silver	7440-22-4	0.179		0.0156	0.130	2
06145	Thallium	7440-28-0	0.576		0.0390	0.130	2
06148	Vanadium	7440-62-2	79.6		0.0286	0.130	2
06149	Zinc	7440-66-6	112		0.727	3.90	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0477	J	0.0036	0.126	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		1.0	1.3	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.7	U	11.7	39.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183552
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1219 SDG#: DE060-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.26	1.3	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	383		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.60		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	23.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 12:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 14:21	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/27/2011 20:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 20:58	John P Hook	5
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 20:58	John P Hook	5
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 20:53	John P Hook	1
01654	Iron	SW-846 6010B	1	110195708001	01/21/2011 20:58	John P Hook	5
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 20:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 20:53	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 20:53	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 20:58	John P Hook	5
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 20:58	John P Hook	5
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 20:53	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183552
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1219 SDG#: DE060-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 20:53	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 20:53	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 20:58	John P Hook	5
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 20:53	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/23/2011 18:28	David K Beck	5
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:41	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:41	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:41	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 12:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201B	01/24/2011 23:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11025243202A	01/29/2011 17:55	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201B	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183553
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL120 SDG#: DE060-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6	0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3	0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.98
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6	0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3	0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3	0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.98
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3	0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3	0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.98
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3	0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3	0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.98
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6	0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3	0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3	0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6	0.98
06192	Methylene Chloride	75-09-2	0.91	J	0.26	4.3	0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3	0.98

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183553
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL120 SDG#: DE060-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3	0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3	0.98
06192	Toluene	108-88-3	0.1	J	0.09	4.3	0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3	0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3	0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3	0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3	0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16	23.72
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183553
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL120 SDG#: DE060-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183553
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL120 SDG#: DE060-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	8.0	J	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
	Di-n-octylphthalate was detected in the method blank at a concentration of 7.7 ug/kg. The blank value was not subtracted from the analytical result.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.47	21.7	1
07914	Boron	7440-42-8	4.84	U	4.84	27.2	5
	Reporting limits for boron were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,880		6.66	21.7	1
01654	Iron	7439-89-6	28,500		5.12	21.7	1
01656	Lithium	7439-93-2	27.7		0.24	2.2	1
01657	Magnesium	7439-95-4	5,630		2.76	10.9	1
06958	Manganese	7439-96-5	336		0.0848	0.543	1
10145	Phosphorus	7723-14-0	480		0.609	10.9	1
01662	Potassium	7440-09-7	1,550		19.6	54.3	1
01667	Sodium	7440-23-5	106	J	40.5	109	1
07968	Strontium	7440-24-6	20.7		0.0674	0.543	1
06969	Tin	7440-31-5	2.59	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,130		0.413	1.09	1
10146	Zirconium	7440-67-7	1.69	J	0.913	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183553
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL120 SDG#: DE060-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	8.15	0.0844	0.422	2
06126	Barium	7440-39-3	93.0	0.114	0.422	2
06127	Beryllium	7440-41-7	1.01	0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0802 J	0.0422	0.106	2
06131	Chromium	7440-47-3	24.7	0.127	0.422	2
06132	Cobalt	7440-48-4	11.3	0.0211	0.106	2
06133	Copper	7440-50-8	16.9	0.0697	0.422	2
06135	Lead	7439-92-1	9.45	0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.414	0.0528	0.106	2
06139	Nickel	7440-02-0	15.3	0.106	0.422	2
06141	Selenium	7782-49-2	0.121 J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0158 J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.280	0.0317	0.106	2
06148	Vanadium	7440-62-2	46.4	0.0232	0.106	2
06149	Zinc	7440-66-6	75.1	0.591	3.17	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050 J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	32.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	343	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.49	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183553
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL120 SDG#: DE060-08

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-120-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/17/2011 23:58	Laura M Krieger	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 17:39	Jason M Long	23.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101423510	01/14/2011 15:04	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 13:13	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 14:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/27/2011 20:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/24/2011 13:04	Eric L Eby	5
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 21:02	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 21:02	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:44	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183553
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL120 SDG#: DE060-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:44	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:44	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:44	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 12:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201B	01/24/2011 23:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11025243202A	01/29/2011 18:14	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201B	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183554
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL119 SDG#: DE060-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.7	U	7.7	9.2	1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.6	1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6	1.02
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6	1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6	1.02
06192	Bromoform	75-25-2	0.46	U	0.46	4.6	1.02
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6	1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2	1.02
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6	1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6	1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6	1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6	1.02
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6	1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6	1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6	1.02
06192	Chloroform	67-66-3	0.14	U	0.14	4.6	1.02
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6	1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6	1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6	1.02
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8	1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6	1.02
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6	1.02
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6	1.02
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6	1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6	1.02
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6	1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6	1.02
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6	1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6	1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6	1.02
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6	1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6	1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6	1.02
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6	1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6	1.02
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6	1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6	1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6	1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6	1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6	1.02
06192	Freon 113	76-13-1	0.13	U	0.13	4.6	1.02
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8	1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6	1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2	1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6	1.02
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6	1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6	1.02
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2	1.02
06192	Methylene Chloride	75-09-2	0.70	J	0.28	4.6	1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6	1.02

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183554
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL119 SDG#: DE060-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6	1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6	1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6	1.02
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6	1.02
06192	Toluene	108-88-3	0.1	J	0.09	4.6	1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6	1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6	1.02
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6	1.02
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6	1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6	1.02
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6	1.02
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6	1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6	1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6	1.02
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6	1.02
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6	1.02
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6	1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17	25.72
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183554
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL119 SDG#: DE060-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183554
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL119 SDG#: DE060-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	8.3	J	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
	Di-n-octylphthalate was detected in the method blank at a concentration of 7.7 ug/kg. The blank value was not subtracted from the analytical result.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.55	22.1	1
07914	Boron	7440-42-8	4.91	U	4.91	27.6	5
	Reporting limits for boron were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	3,340		6.77	22.1	1
01654	Iron	7439-89-6	28,900		5.20	22.1	1
01656	Lithium	7439-93-2	27.4		0.24	2.2	1
01657	Magnesium	7439-95-4	6,060		2.80	11.0	1
06958	Manganese	7439-96-5	259		0.0861	0.552	1
10145	Phosphorus	7723-14-0	243		0.618	11.0	1
01662	Potassium	7440-09-7	1,720		19.9	55.2	1
01667	Sodium	7440-23-5	138		41.2	110	1
07968	Strontium	7440-24-6	23.9		0.0685	0.552	1
06969	Tin	7440-31-5	2.82	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,300		0.420	1.10	1
10146	Zirconium	7440-67-7	1.43	J	0.927	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0676	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183554
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL119 SDG#: DE060-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.10	0.0901	0.450	2
06126	Barium	7440-39-3	88.1	0.122	0.450	2
06127	Beryllium	7440-41-7	0.592	0.0180	0.113	2
06128	Cadmium	7440-43-9	0.0458 J	0.0450	0.113	2
06131	Chromium	7440-47-3	22.3	0.135	0.450	2
06132	Cobalt	7440-48-4	6.21	0.0225	0.113	2
06133	Copper	7440-50-8	7.92	0.0743	0.450	2
06135	Lead	7439-92-1	6.69	0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.338	0.0563	0.113	2
06139	Nickel	7440-02-0	11.6	0.113	0.450	2
06141	Selenium	7782-49-2	0.0987 J	0.0450	0.450	2
06142	Silver	7440-22-4	0.0135 U	0.0135	0.113	2
06145	Thallium	7440-28-0	0.193	0.0338	0.113	2
06148	Vanadium	7440-62-2	41.2	0.0248	0.113	2
06149	Zinc	7440-66-6	48.7	0.631	3.38	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	358	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.01	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183554
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL119 SDG#: DE060-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-119-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 00:21	Laura M Krieger	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 17:59	Jason M Long	25.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101423510	01/14/2011 15:07	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/22/2011 13:38	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 15:26	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/27/2011 20:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/24/2011 13:07	Eric L Eby	5
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 21:06	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 21:06	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183554
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

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Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL119 SDG#: DE060-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:48	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:48	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 12:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201B	01/25/2011 00:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11025243202A	01/29/2011 18:20	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201B	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-009-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183555
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DE060-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	220	U	220	650	1
04688	Benzidine	92-87-5	1,500	U	1,500	4,400	1
04688	Benzoic acid	65-85-0	220	U	220	650	1
04688	Benzyl alcohol	100-51-6	220	U	220	650	1
04688	4-Bromophenyl-phenylether	101-55-3	22	U	22	220	1
04688	Carbazole	86-74-8	22	U	22	220	1
04688	4-Chloro-3-methylphenol	59-50-7	44	U	44	220	1
04688	4-Chloroaniline	106-47-8	87	U	87	220	1
04688	bis(2-Chloroethoxy)methane	111-91-1	22	U	22	220	1
04688	bis(2-Chloroethyl)ether	111-44-4	22	U	22	220	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	22	U	22	220	1
04688	2-Chloronaphthalene	91-58-7	22	U	22	220	1
04688	2-Chlorophenol	95-57-8	22	U	22	220	1
04688	4-Chlorophenyl-phenylether	7005-72-3	44	U	44	220	1
04688	Dibenzofuran	132-64-9	22	U	22	220	1
04688	1,2-Dichlorobenzene	95-50-1	22	U	22	220	1
04688	1,3-Dichlorobenzene	541-73-1	22	U	22	220	1
04688	1,4-Dichlorobenzene	106-46-7	22	U	22	220	1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	440	1
04688	2,4-Dichlorophenol	120-83-2	22	U	22	220	1
04688	2,4-Dimethylphenol	105-67-9	44	U	44	220	1
04688	3,5-Dimethylphenol	108-68-9	44	U	44	220	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	220	U	220	650	1
04688	2,4-Dinitrophenol	51-28-5	870	U	870	1,300	1
04688	2,4-Dinitrotoluene	121-14-2	44	U	44	220	1
04688	2,6-Dinitrotoluene	606-20-2	22	U	22	220	1
04688	1,2-Diphenylhydrazine	122-66-7	22	U	22	220	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	22	440	1
04688	Hexachlorobenzene	118-74-1	22	U	22	220	1
04688	Hexachlorobutadiene	87-68-3	87	U	87	220	1
04688	Hexachlorocyclopentadiene	77-47-4	220	U	220	650	1
04688	Hexachloroethane	67-72-1	22	U	22	220	1
04688	Isophorone	78-59-1	22	U	22	220	1
04688	2-Methylphenol	95-48-7	44	U	44	220	1
04688	4-Methylphenol	106-44-5	44	U	44	220	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	22	U	22	220	1
04688	3-Nitroaniline	99-09-2	44	U	44	220	1
04688	4-Nitroaniline	100-01-6	87	U	87	220	1
04688	Nitrobenzene	98-95-3	22	U	22	220	1
04688	2-Nitrophenol	88-75-5	22	U	22	220	1
04688	4-Nitrophenol	100-02-7	220	U	220	650	1
04688	N-Nitroso-di-n-propylamine	621-64-7	22	U	22	220	1
04688	N-Nitrosodiphenylamine	86-30-6	22	U	22	220	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	220	U	220	650	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-009-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183555
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DE060-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	22	U	22	220	1
04688	1,2,4-Trichlorobenzene	120-82-1	22	U	22	220	1
04688	2,4,5-Trichlorophenol	95-95-4	44	U	44	220	1
04688	2,4,6-Trichlorophenol	88-06-2	44	U	44	220	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.87	U	0.87	2.2	1
10138	Acenaphthylene	208-96-8	0.44	U	0.44	2.2	1
10138	Anthracene	120-12-7	0.44	U	0.44	2.2	1
10138	Benzo(a)anthracene	56-55-3	0.87	U	0.87	2.2	1
10138	Benzo(a)pyrene	50-32-8	4.5		0.87	2.2	1
10138	Benzo(b)fluoranthene	205-99-2	49		0.87	2.2	1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.87	2.2	1
10138	Benzo(k)fluoranthene	207-08-9	0.87	U	0.87	2.2	1
10138	Butylbenzylphthalate	85-68-7	11	J	7.8	24	1
10138	Di-n-butylphthalate	84-74-2	7.8	U	7.8	24	1
10138	Chrysene	218-01-9	3.0		0.44	2.2	1
10138	Dibenz(a,h)anthracene	53-70-3	0.87	U	0.87	2.2	1
10138	Diethylphthalate	84-66-2	7.8	U	7.8	24	1
10138	Dimethylphthalate	131-11-3	7.8	U	7.8	24	1
10138	Fluoranthene	206-44-0	3.3		0.87	2.2	1
10138	Fluorene	86-73-7	5.8		0.87	2.2	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.87	2.2	1
10138	1-Methylnaphthalene	90-12-0	0.87	U	0.87	2.2	1
10138	2-Methylnaphthalene	91-57-6	0.87	U	0.87	2.2	1
10138	Naphthalene	91-20-3	1.0	J	0.87	2.2	1
10138	N-Nitrosodimethylamine	62-75-9	0.87	U	0.87	2.2	1
10138	Di-n-octylphthalate	117-84-0	7.8	U	7.8	24	1
10138	Phenanthrene	85-01-8	1.4	J	0.87	2.2	1
10138	Pyrene	129-00-0	3.6		0.87	2.2	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	3.0	U	3.0	4.7	1
10401	Dalapon	75-99-0	5.8	U	5.8	12	1
10401	2,4-DB	94-82-6	3.5	U	3.5	3.5	1
10401	Dicamba	1918-00-9	0.52	U	0.52	1.6	1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.1	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2	1
10401	MCPA	94-74-6	1,700	U	1,700	1,700	1
10401	MCPP (Mecoprop)	93-65-2	340	U	340	340	1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.22	1
10401	2,4,5-TP	93-72-1	0.098	U	0.098	0.22	1

MCPP was detected in the method blank at a concentration of 97.15 ug/kg. MCPP was also detected in the sample at a concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SED-009-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183555
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DE060-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	of 298.34 ug/kg, however, the reporting limits are raised in the sample due to an interfering peak on the confirmation column. MCPP was not detected in the reextracted blank or sample. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract.						
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported for various compounds represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.086	U	0.086	0.22	1
01363	Alpha BHC	319-84-6	0.044	U	0.044	0.22	1
01363	Beta BHC	319-85-7	0.078	U	0.078	0.22	1
01363	Gamma BHC - Lindane	58-89-9	0.044	U	0.044	0.22	1
01363	Chlordane	57-74-9	3.0	U	3.0	4.4	1
01363	p,p-DDD	72-54-8	0.34	U	0.34	0.44	1
01363	p,p-DDE	72-55-9	1.5	U	1.5	1.5	1
01363	p,p-DDT	50-29-3	1.9	U	1.9	1.9	1
01363	Delta BHC	319-86-8	0.047	U	0.047	0.22	1
01363	Dieldrin	60-57-1	0.086	U	0.086	0.44	1
01363	Endosulfan I	959-98-8	0.058	U	0.058	0.22	1
01363	Endosulfan II	33213-65-9	0.34	U	0.34	0.44	1
01363	Endosulfan Sulfate	1031-07-8	0.086	U	0.086	0.44	1
01363	Endrin	72-20-8	0.086	U	0.086	0.44	1
01363	Endrin Aldehyde	7421-93-4	0.54	U	0.54	0.54	1
01363	Endrin Ketone	53494-70-5	0.38	U	0.38	0.44	1
01363	Heptachlor	76-44-8	0.26	U	0.26	0.26	1
01363	Heptachlor Epoxide	1024-57-3	0.044	U	0.044	0.22	1
01363	Methoxychlor	72-43-5	0.44	U	0.44	2.2	1
01363	Mirex	2385-85-5	0.086	U	0.086	0.44	1
01363	Toxaphene	8001-35-2	2.9	U	2.9	8.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3	1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3	1
10225	Aroclor 5460	11126-42-4	3.0	J	1.3	4.3	1
10225	PCB-1016	12674-11-2	0.43	U	0.43	2.2	1
10225	PCB-1221	11104-28-2	0.65	U	0.65	2.2	1
10225	PCB-1232	11141-16-5	0.68	U	0.68	2.2	1
10225	PCB-1242	53469-21-9	0.65	U	0.65	2.2	1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-009-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183555
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DE060-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	3.7		0.43	2.2	1
10225	PCB-1260	11096-82-5	3.3		0.43	2.2	1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2	1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		6.58	26.1	1
07914	Boron	7440-42-8	1.16	U	1.16	6.54	1
01650	Calcium	7440-70-2	8,140		8.01	26.1	1
01654	Iron	7439-89-6	19,800		6.16	26.1	1
01656	Lithium	7439-93-2	26.2		0.29	2.6	1
01657	Magnesium	7439-95-4	5,720		3.32	13.1	1
06958	Manganese	7439-96-5	306		0.102	0.654	1
10145	Phosphorus	7723-14-0	474		0.732	13.1	1
01662	Potassium	7440-09-7	3,270		23.5	65.4	1
01667	Sodium	7440-23-5	64.0	J	48.8	131	1
07968	Strontium	7440-24-6	22.9		0.0810	0.654	1
06969	Tin	7440-31-5	2.74	J	1.31	13.1	1
06970	Titanium	7440-32-6	997		0.497	1.31	1
10146	Zirconium	7440-67-7	1.10	U	1.10	6.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118	J	0.0761	0.254	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	37.9		0.102	0.508	2
06126	Barium	7440-39-3	69.6		0.137	0.508	2
06127	Beryllium	7440-41-7	0.549		0.0203	0.127	2
06128	Cadmium	7440-43-9	0.211		0.0508	0.127	2
06131	Chromium	7440-47-3	19.1		0.152	0.508	2
06132	Cobalt	7440-48-4	6.53		0.0254	0.127	2
06133	Copper	7440-50-8	11.2		0.0838	0.508	2
06135	Lead	7439-92-1	12.8		0.0132	0.254	2
06138	Molybdenum	7439-98-7	0.435		0.0635	0.127	2
06139	Nickel	7440-02-0	14.7		0.127	0.508	2
06141	Selenium	7782-49-2	0.179	J	0.0508	0.508	2
06142	Silver	7440-22-4	0.0798	J	0.0152	0.127	2
06145	Thallium	7440-28-0	0.323		0.0381	0.127	2
06148	Vanadium	7440-62-2	32.4		0.0279	0.127	2
06149	Zinc	7440-66-6	57.9		0.711	3.81	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0220	J	0.0036	0.127	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-009-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183555
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DE060-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		1.0	1.3	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.8	U	11.8	39.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	391		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.15		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	23.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/27/2011 09:14	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 15:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110190027A	02/02/2011 11:27	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110170031A	02/03/2011 07:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/27/2011 20:58	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110170031A	01/18/2011 08:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-009-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183555
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DE060-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110190027A	01/20/2011 08:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 21:10	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 21:10	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 21:10	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 16:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 16:51	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 16:51	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 16:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203A	01/27/2011 12:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201B	01/25/2011 00:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11025243202A	01/29/2011 18:32	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203A	01/25/2011 23:40	Venia B McFadden	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-009-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183555
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DE060-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201B	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-028-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183556
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DE060-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	240	U	240	710	1
04688	Benzidine	92-87-5	1,700	U	1,700	4,700	1
04688	Benzoic acid	65-85-0	240	U	240	710	1
04688	Benzyl alcohol	100-51-6	240	U	240	710	1
04688	4-Bromophenyl-phenylether	101-55-3	24	U	24	240	1
04688	Carbazole	86-74-8	24	U	24	240	1
04688	4-Chloro-3-methylphenol	59-50-7	47	U	47	240	1
04688	4-Chloroaniline	106-47-8	94	U	94	240	1
04688	bis(2-Chloroethoxy)methane	111-91-1	24	U	24	240	1
04688	bis(2-Chloroethyl)ether	111-44-4	24	U	24	240	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	24	U	24	240	1
04688	2-Chloronaphthalene	91-58-7	24	U	24	240	1
04688	2-Chlorophenol	95-57-8	24	U	24	240	1
04688	4-Chlorophenyl-phenylether	7005-72-3	47	U	47	240	1
04688	Dibenzofuran	132-64-9	24	U	24	240	1
04688	1,2-Dichlorobenzene	95-50-1	24	U	24	240	1
04688	1,3-Dichlorobenzene	541-73-1	24	U	24	240	1
04688	1,4-Dichlorobenzene	106-46-7	24	U	24	240	1
04688	3,3'-Dichlorobenzidine	91-94-1	140	U	140	470	1
04688	2,4-Dichlorophenol	120-83-2	24	U	24	240	1
04688	2,4-Dimethylphenol	105-67-9	47	U	47	240	1
04688	3,5-Dimethylphenol	108-68-9	47	U	47	240	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	240	U	240	710	1
04688	2,4-Dinitrophenol	51-28-5	940	U	940	1,400	1
04688	2,4-Dinitrotoluene	121-14-2	47	U	47	240	1
04688	2,6-Dinitrotoluene	606-20-2	24	U	24	240	1
04688	1,2-Diphenylhydrazine	122-66-7	24	U	24	240	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	24	470	1
04688	Hexachlorobenzene	118-74-1	24	U	24	240	1
04688	Hexachlorobutadiene	87-68-3	94	U	94	240	1
04688	Hexachlorocyclopentadiene	77-47-4	240	U	240	710	1
04688	Hexachloroethane	67-72-1	24	U	24	240	1
04688	Isophorone	78-59-1	24	U	24	240	1
04688	2-Methylphenol	95-48-7	47	U	47	240	1
04688	4-Methylphenol	106-44-5	47	U	47	240	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	24	U	24	240	1
04688	3-Nitroaniline	99-09-2	47	U	47	240	1
04688	4-Nitroaniline	100-01-6	94	U	94	240	1
04688	Nitrobenzene	98-95-3	24	U	24	240	1
04688	2-Nitrophenol	88-75-5	24	U	24	240	1
04688	4-Nitrophenol	100-02-7	240	U	240	710	1
04688	N-Nitroso-di-n-propylamine	621-64-7	24	U	24	240	1
04688	N-Nitrosodiphenylamine	86-30-6	24	U	24	240	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	240	U	240	710	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-028-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183556
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DE060-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	24	U	24	240	1
04688	1,2,4-Trichlorobenzene	120-82-1	24	U	24	240	1
04688	2,4,5-Trichlorophenol	95-95-4	47	U	47	240	1
04688	2,4,6-Trichlorophenol	88-06-2	47	U	47	240	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.94	U	0.94	2.4	1
10138	Acenaphthylene	208-96-8	0.47	U	0.47	2.4	1
10138	Anthracene	120-12-7	0.47	U	0.47	2.4	1
10138	Benzo(a)anthracene	56-55-3	0.94	U	0.94	2.4	1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.94	2.4	1
10138	Benzo(b)fluoranthene	205-99-2	25		0.94	2.4	1
10138	Benzo(g,h,i)perylene	191-24-2	0.94	U	0.94	2.4	1
10138	Benzo(k)fluoranthene	207-08-9	0.94	U	0.94	2.4	1
10138	Butylbenzylphthalate	85-68-7	8.5	U	8.5	25	1
10138	Di-n-butylphthalate	84-74-2	8.5	U	8.5	25	1
10138	Chrysene	218-01-9	0.93	J	0.47	2.4	1
10138	Dibenz(a,h)anthracene	53-70-3	0.94	U	0.94	2.4	1
10138	Diethylphthalate	84-66-2	8.5	U	8.5	25	1
10138	Dimethylphthalate	131-11-3	8.5	U	8.5	25	1
10138	Fluoranthene	206-44-0	1.3	J	0.94	2.4	1
10138	Fluorene	86-73-7	4.4		0.94	2.4	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.94	U	0.94	2.4	1
10138	1-Methylnaphthalene	90-12-0	0.94	U	0.94	2.4	1
10138	2-Methylnaphthalene	91-57-6	0.94	U	0.94	2.4	1
10138	Naphthalene	91-20-3	1.2	J	0.94	2.4	1
10138	N-Nitrosodimethylamine	62-75-9	0.94	U	0.94	2.4	1
10138	Di-n-octylphthalate	117-84-0	8.5	U	8.5	25	1
10138	Phenanthrene	85-01-8	1.2	J	0.94	2.4	1
10138	Pyrene	129-00-0	0.94	U	0.94	2.4	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.7	U	1.7	5.1	1
10401	Dalapon	75-99-0	6.2	U	6.2	13	1
10401	2,4-DB	94-82-6	3.8		0.88	2.4	1
10401	Dicamba	1918-00-9	0.57	U	0.57	1.7	1
10401	Dinoseb	88-85-7	1.1	U	1.1	3.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	U	1.1	2.4	1
10401	MCPA	94-74-6	450	U	450	450	1
10401	MCPP (Mecoprop)	93-65-2	570	U	570	570	1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.24	1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.24	1

MCPP was detected in the method blank at a concentration of 97.15 ug/kg. MCPP was also detected in the sample at a concentration

Sample Description: **SED-028-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183556
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DE060-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	of 488.92 ug/kg, however, the reporting limits are raised in the sample due to an interfering peak on the confirmation column. MCPP was not detected in the reextracted blank or sample. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract.						
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
	Due to interfering peaks on the chromatogram, the values reported for MCPP and MCPA represent the lowest reporting limits attainable.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.093	U	0.093	0.24	1
01363	Alpha BHC	319-84-6	0.048	U	0.048	0.24	1
01363	Beta BHC	319-85-7	0.085	U	0.085	0.24	1
01363	Gamma BHC - Lindane	58-89-9	0.048	U	0.048	0.24	1
01363	Chlordane	57-74-9	1.1	U	1.1	4.8	1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.48	1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.48	1
01363	p,p-DDT	50-29-3	0.31	U	0.31	0.48	1
01363	Delta BHC	319-86-8	0.051	U	0.051	0.24	1
01363	Dieldrin	60-57-1	0.093	U	0.093	0.48	1
01363	Endosulfan I	959-98-8	0.062	U	0.062	0.24	1
01363	Endosulfan II	33213-65-9	0.093	U	0.093	0.48	1
01363	Endosulfan Sulfate	1031-07-8	0.093	U	0.093	0.48	1
01363	Endrin	72-20-8	0.093	U	0.093	0.48	1
01363	Endrin Aldehyde	7421-93-4	0.093	U	0.093	0.48	1
01363	Endrin Ketone	53494-70-5	0.093	U	0.093	0.48	1
01363	Heptachlor	76-44-8	0.085	U	0.085	0.24	1
01363	Heptachlor Epoxide	1024-57-3	0.048	U	0.048	0.24	1
01363	Methoxychlor	72-43-5	0.64	U	0.64	2.4	1
01363	Mirex	2385-85-5	0.093	U	0.093	0.48	1
01363	Toxaphene	8001-35-2	3.1	U	3.1	9.3	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.4	U	1.4	4.7	1
10225	Aroclor 5442	12642-23-8	1.4	U	1.4	4.7	1
10225	Aroclor 5460	11126-42-4	1.4	U	1.4	4.7	1
10225	PCB-1016	12674-11-2	0.47	U	0.47	2.4	1
10225	PCB-1221	11104-28-2	0.71	U	0.71	2.4	1
10225	PCB-1232	11141-16-5	0.74	U	0.74	2.4	1
10225	PCB-1242	53469-21-9	0.71	U	0.71	2.4	1
10225	PCB-1248	12672-29-6	0.47	U	0.47	2.4	1
10225	PCB-1254	11097-69-1	1.5	J	0.47	2.4	1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-028-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183556
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DE060-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.47	U	0.47	2.4	1
10225	PCB-1268	11100-14-4	0.47	U	0.47	2.4	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,630		6.92	27.5	1
07914	Boron	7440-42-8	1.22	U	1.22	6.88	1
01650	Calcium	7440-70-2	3,900		8.43	27.5	1
01654	Iron	7439-89-6	18,800		6.48	27.5	1
01656	Lithium	7439-93-2	22.6		0.30	2.8	1
01657	Magnesium	7439-95-4	4,850		3.49	13.8	1
06958	Manganese	7439-96-5	246		0.107	0.688	1
10145	Phosphorus	7723-14-0	478		0.770	13.8	1
01662	Potassium	7440-09-7	2,750		24.8	68.8	1
01667	Sodium	7440-23-5	65.7	J	51.3	138	1
07968	Strontium	7440-24-6	12.0		0.0853	0.688	1
06969	Tin	7440-31-5	2.53	J	1.38	13.8	1
06970	Titanium	7440-32-6	1,070		0.523	1.38	1
10146	Zirconium	7440-67-7	2.10	J	1.16	6.88	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0833	U	0.0833	0.278	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.87		0.111	0.555	2
06126	Barium	7440-39-3	64.4		0.150	0.555	2
06127	Beryllium	7440-41-7	0.365		0.0222	0.139	2
06128	Cadmium	7440-43-9	0.208		0.0555	0.139	2
06131	Chromium	7440-47-3	15.9		0.167	0.555	2
06132	Cobalt	7440-48-4	5.06		0.0278	0.139	2
06133	Copper	7440-50-8	6.44		0.0917	0.555	2
06135	Lead	7439-92-1	6.77		0.0144	0.278	2
06138	Molybdenum	7439-98-7	0.291		0.0694	0.139	2
06139	Nickel	7440-02-0	9.52		0.139	0.555	2
06141	Selenium	7782-49-2	0.124	J	0.0555	0.555	2
06142	Silver	7440-22-4	0.0370	J	0.0167	0.139	2
06145	Thallium	7440-28-0	0.191		0.0417	0.139	2
06148	Vanadium	7440-62-2	32.6		0.0306	0.139	2
06149	Zinc	7440-66-6	52.6		0.778	4.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0904	J	0.0040	0.140	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SED-028-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183556
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DE060-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		1.1	1.4	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	12.7	U	12.7	42.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.28	1.4	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	409		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.41		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	29.4		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/27/2011 09:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 16:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110190027A	02/02/2011 12:50	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110170031A	02/03/2011 07:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/27/2011 21:17	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110170031A	01/18/2011 08:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-028-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183556
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DE060-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110190027A	01/20/2011 08:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 21:13	John P Hook	1
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
01654	Iron	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 21:13	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 21:13	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 17:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 17:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 17:00	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 17:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203B	01/27/2011 13:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201B	01/25/2011 00:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11025243202A	01/29/2011 18:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203B	01/25/2011 23:40	Venia B McFadden	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-028-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183556
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD028 SDG#: DE060-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201B	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183557
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL122 SDG#: DE060-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.9	U	7.9	9.4	1.01
06192	Benzene	71-43-2	0.12	U	0.12	4.7	1.01
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7	1.01
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7	1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7	1.01
06192	Bromoform	75-25-2	0.47	U	0.47	4.7	1.01
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7	1.01
06192	2-Butanone	78-93-3	1.4	U	1.4	9.4	1.01
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7	1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7	1.01
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7	1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7	1.01
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7	1.01
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7	1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7	1.01
06192	Chloroform	67-66-3	0.14	U	0.14	4.7	1.01
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7	1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7	1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7	1.01
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9	1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7	1.01
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.7	1.01
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7	1.01
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7	1.01
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7	1.01
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7	1.01
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7	1.01
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7	1.01
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7	1.01
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7	1.01
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7	1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7	1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7	1.01
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7	1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7	1.01
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7	1.01
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7	1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7	1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7	1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7	1.01
06192	Freon 113	76-13-1	0.13	U	0.13	4.7	1.01
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9	1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7	1.01
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.4	1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7	1.01
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7	1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7	1.01
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.4	1.01
06192	Methylene Chloride	75-09-2	1.4	J	0.28	4.7	1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7	1.01

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183557
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL122 SDG#: DE060-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7	1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7	1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7	1.01
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.7	1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.7	1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7	1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7	1.01
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.7	1.01
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7	1.01
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7	1.01
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7	1.01
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7	1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7	1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7	1.01
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.7	1.01
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7	1.01
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7	1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	18	25.2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-122-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183557
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL122 SDG#: DE060-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183557
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

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Reported: 02/08/2011 13:21

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL122 SDG#: DE060-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.						
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,200		5.66	22.5	1
07914	Boron	7440-42-8	5.01	U	5.01	28.1	5
	Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	4,930		6.90	22.5	1
01654	Iron	7439-89-6	42,200		26.5	112	5
01656	Lithium	7439-93-2	47.2		0.25	2.2	1
01657	Magnesium	7439-95-4	10,300		2.86	11.2	1
06958	Manganese	7439-96-5	736		0.0877	0.562	1
10145	Phosphorus	7723-14-0	706		0.630	11.2	1
01662	Potassium	7440-09-7	3,800		20.2	56.2	1
01667	Sodium	7440-23-5	197		42.0	112	1
07968	Strontium	7440-24-6	32.9		0.0697	0.562	1
06969	Tin	7440-31-5	3.33	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,570		0.427	1.12	1
10146	Zirconium	7440-67-7	2.49	J	0.945	5.62	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.185	J	0.0669	0.223	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183557
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL122 SDG#: DE060-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.7		0.0891	0.446	2
06126	Barium	7440-39-3	192		0.120	0.446	2
06127	Beryllium	7440-41-7	1.39		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.106	J	0.0446	0.111	2
06131	Chromium	7440-47-3	44.3		0.134	0.446	2
06132	Cobalt	7440-48-4	14.0		0.0223	0.111	2
06133	Copper	7440-50-8	37.0		0.0735	0.446	2
06135	Lead	7439-92-1	17.0		0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.896		0.0557	0.111	2
06139	Nickel	7440-02-0	27.3		0.111	0.446	2
06141	Selenium	7782-49-2	0.381	J	0.0446	0.446	2
06142	Silver	7440-22-4	0.0181	J	0.0134	0.111	2
06145	Thallium	7440-28-0	0.384		0.0334	0.111	2
06148	Vanadium	7440-62-2	67.6		0.0245	0.111	2
06149	Zinc	7440-66-6	97.0		0.624	3.34	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0056	J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.91		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: **SL-122-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183557
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL122 SDG#: DE060-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-122-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 00:43	Laura M Krieger	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110171AA	01/17/2011 18:19	Jason M Long	25.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101423510	01/14/2011 15:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101423510	01/14/2011 15:13	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLA026	01/27/2011 10:05	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11020SLB026	01/25/2011 17:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11020SLB026	01/21/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLA026	01/19/2011 18:30	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 16:42	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170030A	01/27/2011 21:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170030A	01/18/2011 06:30	Joseph S Feister	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
07914	Boron	SW-846 6010B	1	110195708001	01/21/2011 21:21	John P Hook	5
01650	Calcium	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
01654	Iron	SW-846 6010B	1	110195708001	01/21/2011 21:21	John P Hook	5
01656	Lithium	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110195708001	01/21/2011 21:17	John P Hook	1
06958	Manganese	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
01662	Potassium	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
01667	Sodium	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
07968	Strontium	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
06969	Tin	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
06970	Titanium	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
10146	Zirconium	SW-846 6010B	2	110195708001	01/21/2011 21:17	John P Hook	1
06124	Antimony	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06126	Barium	SW-846 6020	1	110191026001D	01/21/2011 17:03	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183557
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL122 SDG#: DE060-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06133	Copper	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06135	Lead	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110191026001C	01/21/2011 17:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110191026001B	01/21/2011 17:03	David K Beck	2
06142	Silver	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
06149	Zinc	SW-846 6020	1	110191026001A	01/21/2011 17:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711003	01/24/2011 12:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110195708001	01/19/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110191026001	01/19/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110195711001	01/19/2011 23:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	110215711003	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11025025203B	01/27/2011 13:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621201B	01/25/2011 01:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11025243202A	01/29/2011 19:04	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11025025203B	01/25/2011 23:40	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621201B	01/20/2011 13:15	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11025243202A	01/25/2011 22:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB20-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB20-SA5B-011311

LLI Sample # WW 6183558
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:00

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-20 SDG#: DE060-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	63	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	11	U	11	32	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB20-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB20-SA5B-011311

LLI Sample # WW 6183558
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:00

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-20 SDG#: DE060-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.012	U	0.012	0.058	1
10137	Acenaphthylene	208-96-8	0.012	U	0.012	0.058	1
10137	Anthracene	120-12-7	0.012	U	0.012	0.058	1
10137	Benzo(a)anthracene	56-55-3	0.012	U	0.012	0.058	1
10137	Benzo(a)pyrene	50-32-8	0.012	U	0.012	0.058	1
10137	Benzo(b)fluoranthene	205-99-2	0.012	U	0.012	0.058	1
10137	Benzo(g,h,i)perylene	191-24-2	0.012	U	0.012	0.058	1
10137	Benzo(k)fluoranthene	207-08-9	0.012	U	0.012	0.058	1
10137	Butylbenzylphthalate	85-68-7	0.058	U	0.058	1.2	1
10137	Di-n-butylphthalate	84-74-2	0.62	J	0.058	1.2	1
10137	Chrysene	218-01-9	0.012	U	0.012	0.058	1
10137	Dibenz(a,h)anthracene	53-70-3	0.012	U	0.012	0.058	1
10137	Diethylphthalate	84-66-2	0.15	J	0.058	1.2	1
10137	Dimethylphthalate	131-11-3	0.058	U	0.058	1.2	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.27	J	0.058	1.2	1
10137	Fluoranthene	206-44-0	0.012	U	0.012	0.058	1
10137	Fluorene	86-73-7	0.012	U	0.012	0.058	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.012	U	0.012	0.058	1
10137	1-Methylnaphthalene	90-12-0	0.012	U	0.012	0.058	1
10137	2-Methylnaphthalene	91-57-6	0.012	U	0.012	0.058	1
10137	Naphthalene	91-20-3	0.059		0.012	0.058	1
10137	N-Nitrosodimethylamine	62-75-9	0.012	U	0.012	0.058	1
10137	Di-n-octylphthalate	117-84-0	0.058	U	0.058	1.2	1
10137	Phenanthrene	85-01-8	0.012	U	0.012	0.058	1
10137	Pyrene	129-00-0	0.012	U	0.012	0.058	1

The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:
naphthalene .35 ug/l
di-n-butylphthalate .057 ug/l
bis(2-ethylhexyl)phthalate .094 ug/l
These blank values were not subtracted from the analytical results. Sufficient sample was unavailable to repeat the analysis.

Reporting limits were raised due to limited sample volume.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52	1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52	1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52	1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52	1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB20-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB20-SA5B-011311

LLI Sample # WW 6183558
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:00

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-20 SDG#: DE060-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52	1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52	1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52	1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52	1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.52	1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52	1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500	1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB20-SA5B-011311 Water
SSFL Area IV Collocated Soil Sampling
EB20-SA5B-011311

LLI Sample # WW 6183558
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:00

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-20 SDG#: DE060-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/l**		**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0	1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0	1
	The holding time was not met.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11018WAA026	01/22/2011 15:18	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11017WAD026	01/20/2011 22:00	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11018WAA026	01/18/2011 15:45	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11017WAD026	01/17/2011 22:15	Elaine F Stoltzfus	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110180016A	01/27/2011 23:27	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110180016A	01/19/2011 03:00	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
08014	Boron	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
01750	Calcium	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
01754	Iron	SW-846 6010B	2	110201848008	01/21/2011 13:38	Eric L Eby	1
01756	Lithium	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
07058	Manganese	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
01762	Potassium	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
01767	Sodium	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
08068	Strontium	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
07069	Tin	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
07070	Titanium	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110171848002	01/18/2011 20:25	John P Hook	1
06024	Antimony	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06025	Arsenic	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06026	Barium	SW-846 6020	1	110176050002D	01/21/2011 06:59	David K Beck	1
06027	Beryllium	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06028	Cadmium	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1

*=This limit was used in the evaluation of the final result

Sample Description: EB20-SA5B-011311 Water
SSFL Area IV Collocated Soil Sampling
EB20-SA5B-011311

LLI Sample # WW 6183558
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:00

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-20 SDG#: DE060-13EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06031	Chromium	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06032	Cobalt	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06033	Copper	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06035	Lead	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110176050002C	01/21/2011 06:59	David K Beck	1
06039	Nickel	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06041	Selenium	SW-846 6020	1	110176050002B	01/21/2011 06:59	David K Beck	1
06042	Silver	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06045	Thallium	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06048	Vanadium	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
06049	Zinc	SW-846 6020	1	110176050002A	01/21/2011 06:59	David K Beck	1
00259	Mercury	SW-846 7470A	1	110175713003	01/18/2011 08:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110171848002	01/18/2011 10:03	Denise K Conners	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	110201848008	01/20/2011 20:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110176050002	01/18/2011 10:00	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110175713003	01/17/2011 14:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11026196602A	01/27/2011 01:16	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11019621701A	01/19/2011 15:15	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11019196401B	01/19/2011 11:16	Ashley M Adams	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB21-SA5B-011311 Water
SSFL Area IV Collocated Soil Sampling
EB21-SA5B-011311

LLI Sample # WW 6183559
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:55

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-21 SDG#: DE060-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	22	U	22	65	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	11	U	11	32	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB21-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB21-SA5B-011311

LLI Sample # WW 6183559
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:55

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-21 SDG#: DE060-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051	1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051	1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051	1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051	1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051	1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051	1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051	1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051	1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0	1
10137	Di-n-butylphthalate	84-74-2	0.57	J	0.051	1.0	1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051	1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051	1
10137	Diethylphthalate	84-66-2	0.15	J	0.051	1.0	1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.051	U	0.051	1.0	1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051	1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051	1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051	1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051	1
10137	Naphthalene	91-20-3	0.029	J	0.010	0.051	1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051	1
10137	Di-n-octylphthalate	117-84-0	0.051	U	0.051	1.0	1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.051	1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051	1

The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:
naphthalene .35 ug/l
2-methylnaphthalene .054 ug/l
di-n-butylphthalate .057 ug/l
These blank values were not subtracted from the analytical results. Sufficient sample was unavailable to repeat the analysis.

The GC/MS semivolatile surrogate recoveries are outside of QC limits in this sample. Sufficient sample was unavailable to repeat the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52	1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52	1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52	1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB21-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB21-SA5B-011311

LLI Sample # WW 6183559
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:55

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-21 SDG#: DE060-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52	1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52	1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52	1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52	1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52	1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.52	1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52	1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500	1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

Sample Description: **EB21-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB21-SA5B-011311

LLI Sample # WW 6183559
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:55

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-21 SDG#: DE060-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10	1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0	1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199 The holding time was not met.	18540-29-9	5.0	U	5.0	10.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11018WAA026	01/22/2011 15:44	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11017WAD026	01/20/2011 22:33	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11018WAA026	01/18/2011 15:45	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11017WAD026	01/17/2011 22:15	Elaine F Stoltzfus	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110180016A	01/27/2011 23:45	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110180016A	01/19/2011 03:00	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
08014	Boron	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
01750	Calcium	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
01754	Iron	SW-846 6010B	1	110201848008	01/21/2011 13:41	Eric L Eby	1
01756	Lithium	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
07058	Manganese	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
01762	Potassium	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
01767	Sodium	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
08068	Strontium	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
07069	Tin	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
07070	Titanium	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110171848002	01/18/2011 20:29	John P Hook	1
06024	Antimony	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06025	Arsenic	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB21-SA5B-011311 Water
SSFL Area IV Collocated Soil Sampling
EB21-SA5B-011311

LLI Sample # WW 6183559
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:55

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-21 SDG#: DE060-14EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06026	Barium	SW-846 6020	1	110176050002D	01/21/2011 07:02	David K Beck	1
06027	Beryllium	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06028	Cadmium	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06031	Chromium	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06032	Cobalt	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06033	Copper	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06035	Lead	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110176050002C	01/21/2011 07:02	David K Beck	1
06039	Nickel	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06041	Selenium	SW-846 6020	1	110176050002B	01/21/2011 07:02	David K Beck	1
06042	Silver	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06045	Thallium	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06048	Vanadium	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
06049	Zinc	SW-846 6020	1	110176050002A	01/21/2011 07:02	David K Beck	1
00259	Mercury	SW-846 7470A	1	110175713003	01/18/2011 08:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110171848002	01/18/2011 10:03	Denise K Conners	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	110201848008	01/20/2011 20:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110176050002	01/18/2011 10:00	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110175713003	01/17/2011 14:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11026196602A	01/27/2011 01:32	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11019621701A	01/19/2011 15:38	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11019196401B	01/19/2011 13:08	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-011311 Water**
SSFL Area IV Collocated Soil Sampling
TB-011311

LLI Sample # WW 6183560
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:00

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB113 SDG#: DE060-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **TB-011311 Water**
SSFL Area IV Collocated Soil Sampling
TB-011311

LLI Sample # WW 6183560
LLI Group # 1229054
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:00

Submitted: 01/14/2011 08:45
Reported: 02/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB113 SDG#: DE060-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110141AA	01/14/2011 16:58	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110191AA	01/19/2011 10:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110141AA	01/14/2011 16:58	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110191AA	01/19/2011 10:48	Jason M Long	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110172AA	Sample number(s): 6183546-6183547,6183549,6183551,6183553-6183554,6183557									
Acetone	6.7	U	6.7	8.0	ug/kg	119	114	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	101	101	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94	96	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	107	105	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96	95	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	106	102	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	70	71	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	97	96	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93	94	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	92	93	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	89	91	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	104	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	101	101	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	71	72	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	87	89	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	101	101	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	73	82	54-132	12	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	97	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	96	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	110	114	22-131	4	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	85	87	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	101	100	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103	101	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99	99	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	95	97	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	98	97	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	67	67	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	98	100	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98	98	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	100	100	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103	104	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	104	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95	96	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	94	95	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	102	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	96	97	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	87	88	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	88	77-120	0	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96	96	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	99	99	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	87	90	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	94	95	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	69	69	45-155	0	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	96	96	76-120	0	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	94	95	75-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	98	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	68	68	61-134	0	30
Methylene Chloride	0.76	J	0.24	4.0	ug/kg	98	99	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	95	96	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	99	99	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	105	105	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	91	92	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	113	108	77-120	4	30
Toluene	0.32	J	0.08	4.0	ug/kg	102	101	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	93	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	89	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	102	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	101	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99	99	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85	84	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	95	96	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	95	96	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93	94	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	75	78	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	101	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	92	94	80-120	2	30
Batch number: E110171AA	Sample number(s): 6183546-6183547,6183549,6183551,6183553-6183554,6183557									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	98	70-130	7	30
Batch number: E110191AA	Sample number(s): 6183560									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	108	60-132	3	30
Batch number: Y110141AA	Sample number(s): 6183560									
Acetone	6	U	6.	20	ug/l	157	140	49-234	12	30
Benzene	0.5	U	0.5	5	ug/l	97	99	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	100	101	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	105	101	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	104	103	80-120	1	30
Bromoform	1	U	1.	5	ug/l	98	96	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	103	102	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	124	115	66-151	7	30
n-Butylbenzene	1	U	1.	5	ug/l	96	95	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	99	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	106	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	104	103	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	109	108	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	108	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	110	110	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	97	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	78	76	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	102	96	66-120	6	30
Dibromochloromethane	1	U	1.	5	ug/l	99	99	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	102	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	110	109	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	103	79-120	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	116	113	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	95	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	103	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	108	108	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	102	102	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	96	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	99	101	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	106	106	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	95	97	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	113	109	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	101	100	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	106	106	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	97	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	101	97	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	99	80-120	0	30
Styrene	1	U	1.	5	ug/l	96	96	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	100	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	93	95	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	100	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	102	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	101	99	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	100	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	101	101	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	109	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	99	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	98	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	94	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	96	80-120	2	30
Batch number: 11017WAD026	Sample number(s): 6183558-6183559									
Acenaphthene	0.035	J	0.010	0.050	ug/l	96	95	74-109	1	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	100	101	70-110	1	30
Anthracene	0.014	J	0.010	0.050	ug/l	100	97	66-111	3	30
Benzo(a)anthracene	0.017	J	0.010	0.050	ug/l	99	98	72-114	1	30
Benzo(a)pyrene	0.014	J	0.010	0.050	ug/l	117*	117*	64-115	0	30
Benzo(b)fluoranthene	0.017	J	0.010	0.050	ug/l	123	123	69-123	0	30
Benzo(g,h,i)perylene	0.016	J	0.010	0.050	ug/l	113	124	68-125	10	30
Benzo(k)fluoranthene	0.020	J	0.010	0.050	ug/l	126*	124*	72-122	2	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	99	95	70-130	3	30
Di-n-butylphthalate	0.057	J	0.050	1.0	ug/l	109	104	70-130	5	30
Chrysene	0.020	J	0.010	0.050	ug/l	98	98	76-116	1	30
Dibenz(a,h)anthracene	0.015	J	0.010	0.050	ug/l	114	125	71-125	9	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	100	98	70-130	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	86	83	70-130	4	30
Bis(2-Ethylhexyl)phthalate	0.094	J	0.050	1.0	ug/l	107	108	70-130	1	30
Fluoranthene	0.022	J	0.010	0.050	ug/l	101	98	75-116	3	30
Fluorene	0.038	J	0.010	0.050	ug/l	102	100	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.016	J	0.010	0.050	ug/l	114	126*	69-124	10	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.032	J	0.010	0.050	ug/l	98	98	71-117	0	30
2-Methylnaphthalene	0.054		0.010	0.050	ug/l	94	93	75-115	1	30
Naphthalene	0.35		0.010	0.050	ug/l	95	92	72-109	3	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	63*	63*	70-130	1	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	118	116	70-130	1	30
Phenanthrene	0.046	J	0.010	0.050	ug/l	98	95	76-111	4	30
Pyrene	0.017	J	0.010	0.050	ug/l	96	95	69-118	1	30
Batch number: 11018WAA026	Sample number(s): 6183558-6183559									
Aniline	1	U	1.	5	ug/l	70	78	49-101	11	30
Benzidine	20	U	20.	60	ug/l	72	74	20-109	2	30
Benzoic acid	6	U	6.	15	ug/l	26	43	10-69	52*	30
Benzyl alcohol	5	U	5.	15	ug/l	72	81	66-97	12	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	96	82-117	2	30
Carbazole	1	U	1.	5	ug/l	95	98	81-114	3	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	90	93	70-123	4	30
4-Chloroaniline	1	U	1.	5	ug/l	55	55	42-124	0	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	93	93	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	91	96	77-108	5	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	95	62-127	3	30
2-Chloronaphthalene	2	U	2.	5	ug/l	78	76	54-132	3	30
2-Chlorophenol	1	U	1.	5	ug/l	88	93	77-108	6	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	95	95	82-111	0	30
Dibenzofuran	1	U	1.	5	ug/l	96	96	83-108	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	88	67-108	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	85	86	63-110	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	85	86	65-113	1	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	59	62	49-111	6	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	92	96	80-109	4	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	92	93	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	100	104	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	89	95	78-119	6	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	87	97	64-120	11	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	95	97	81-115	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	97	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	99	102	78-116	3	30
Hexachlorobenzene	1	U	1.	5	ug/l	95	98	81-118	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	86	86	57-124	0	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	74	75	10-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	82	83	52-113	2	30
Isophorone	1	U	1.	5	ug/l	94	96	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	80	87	64-101	8	30
4-Methylphenol	2	U	2.	5	ug/l	69	77	61-103	11	30
2-Nitroaniline	1	U	1.	5	ug/l	95	96	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	92	95	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	77	77	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	92	93	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	91	95	86-120	5	30
4-Nitrophenol	10	U	10.	30	ug/l	33	39	16-78	17	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	97	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	98	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	97	99	53-110	3	30
Phenol	1	U	1.	5	ug/l	34	42	29-67	20	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	88	89	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	91	96	79-107	5	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	93	97	81-113	4	30
Batch number: 11019SLA026	Sample number(s): 6183546-6183557									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aniline	170 U		170.	500	ug/kg	64		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	45		15-121		
Benzoic acid	170 U		170.	500	ug/kg	105		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	98		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	91		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	78		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	65		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U		670.	2,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	J	17.	330	ug/kg	97		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	80		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	100		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	92		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	82		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	95		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	86		35-106		
Phenol	17	U	17.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 11020SLB026	Sample number(s): 6183546-6183557									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	95		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	91		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	113		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	116		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	123		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	99		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	104		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	91		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	132		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	91		70-130		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	96		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	93		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	128		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	78		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	78		39-148		
Di-n-octylphthalate	7.7	J	6.0	18	ug/kg	128		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	87		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	85		56-121		
Batch number: 110190027A	Sample number(s): 6183555-6183556									
2,4-D	1.2	U	1.2	3.6	ug/kg	88		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	76		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	76		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	70		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	5*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	94		60-141		
MCPA	76	U	76.	250	ug/kg	96		34-113		
MCPP (Mecoprop)	97	J	75.	250	ug/kg	92		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	76		48-138		
Batch number: 110200023A	Sample number(s): 6183557									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110170030A	Sample number(s): 6183546-6183557									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67*	65*	75-125	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	99		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	122		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110170031A	Sample number(s): 6183555-6183556									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aldrin	0.066	U	0.066	0.17	ug/kg	124		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	96		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	126		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	86		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	92		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	73		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	105		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	122		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	91		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	88		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	138		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	124		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	85		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110180016A	Sample number(s): 6183558-6183559									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	44*	46*	75-125	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	106	98	68-119	8	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	136*	120	68-121	13	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110171848002	Sample number(s): 6183558-6183559									
Aluminum	0.0834	U	0.0834	0.200	mg/l	98	98	90-112	0	20
Boron	0.0138	U	0.0138	0.0500	mg/l	92	91	90-110	2	20
Calcium	0.0702	U	0.0702	0.200	mg/l	101	100	90-112	0	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	102	101	80-120	0	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	95	94	89-110	0	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	103	102	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	97	96	80-120	1	20
Potassium	0.239	U	0.239	0.500	mg/l	99	98	85-115	1	20
Sodium	0.433	U	0.433	1.00	mg/l	100	99	87-114	1	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	100	98	90-110	2	20
Tin	0.0098	U	0.0098	0.0200	mg/l	98	98	90-110	1	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	102	101	90-113	1	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	102	101	80-120	0	20
Batch number: 110175713003	Sample number(s): 6183558-6183559									
Mercury	0.000050	U	0.00005 0	0.00020	mg/l	96	89	80-120	8	20
Batch number: 110176050002A	Sample number(s): 6183558-6183559									
Antimony	0.00030	U	0.00030	0.0010	mg/l	96	107	87-110	11	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	100	107	86-111	7	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.00013 U	0.00013	0.00050	mg/l	109	111	90-112	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	95	105	90-114	9	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	107	109	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	106	107	80-120	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	110	110	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	106	106	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	106	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	101	100	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	100	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	106	80-120	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	114	106	80-120	8	20
Batch number: 110176050002B	Sample number(s): 6183558-6183559								
Selenium	0.00025 U	0.00025	0.0020	mg/l	100	102	85-114	2	20
Batch number: 110176050002C	Sample number(s): 6183558-6183559								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	100	80-120	0	20
Batch number: 110176050002D	Sample number(s): 6183558-6183559								
Barium	0.00053 U	0.00053	0.0020	mg/l	110	105	88-113	5	20
Batch number: 110191026001A	Sample number(s): 6183546-6183557								
Antimony	0.0600 U	0.0600	0.200	mg/kg	134		11-208		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	99		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	103		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	99		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	98		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	102		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	98		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	100		78-122		
Batch number: 110191026001B	Sample number(s): 6183546-6183557								
Selenium	0.0400 U	0.0400	0.400	mg/kg	103		79-122		
Batch number: 110191026001C	Sample number(s): 6183546-6183557								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 110191026001D	Sample number(s): 6183546-6183557								
Barium	0.108 U	0.108	0.400	mg/kg	101		79-121		
Batch number: 110195708001	Sample number(s): 6183546-6183557								
Aluminum	5.03 U	5.03	20.0	mg/kg	90		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	88		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	94		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	101		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	94		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	1.36 J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3 U	37.3	100	mg/kg	95		87-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.00	U	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	94		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110201848008	Sample number(s): 6183558-6183559									
Iron	0.0522	U	0.0522	0.200	mg/l	104	105	90-112	1	20
Batch number: 110215711003	Sample number(s): 6183546-6183557									
Mercury	0.0028	U	0.0028	0.0968	mg/kg	98		88-123		
Batch number: 11019196401B	Sample number(s): 6183558-6183559									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	103	105	90-110	1	20
Batch number: 11019621701A	Sample number(s): 6183558-6183559									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	91		85-115		
Batch number: 11020621201A	Sample number(s): 6183546-6183549									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11020621201B	Sample number(s): 6183550-6183557									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11025025203A	Sample number(s): 6183546-6183555									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	96		90-110		
Batch number: 11025025203B	Sample number(s): 6183556-6183557									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	96		90-110		
Batch number: 11025243202A	Sample number(s): 6183546-6183557									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11026196602A	Sample number(s): 6183558-6183559									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	106	105	90-110	1	20
Batch number: 11018039402A	Sample number(s): 6183546-6183549									
22a pH by 9045C						100		95-105		
Batch number: 11018039402B	Sample number(s): 6183550-6183557									
22a pH by 9045C						100		95-105		
Batch number: 11018182102A	Sample number(s): 6183546-6183549									
32a OR Potential						99		98-102		
Batch number: 11018182102B	Sample number(s): 6183550-6183557									
32a OR Potential						99		98-102		
Batch number: 11019162401A	Sample number(s): 6183546-6183549									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11019162401B	Sample number(s): 6183550-6183557									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM
Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110172AA	Sample number(s): 6183546-6183547,6183549,6183551,6183553-6183554,6183557 UNSPK: 6183546								
Acetone	117		15-210						
Benzene	101		55-143						
Bromobenzene	94		43-139						
Bromochloromethane	106		60-137						
Bromodichloromethane	96		53-136						
Bromoform	103		38-124						
Bromomethane	64		42-168						
2-Butanone	94		37-163						
n-Butylbenzene	87		30-146						
sec-Butylbenzene	88		33-157						
tert-Butylbenzene	87		41-152						
Carbon Tetrachloride	105		45-153						
Chlorobenzene	101		49-135						
Chloroethane	63		39-152						
2-Chloroethyl Vinyl Ether	85		32-139						
Chloroform	101		61-142						
Chloromethane	81		51-163						
2-Chlorotoluene	92		42-146						
4-Chlorotoluene	91		39-145						
1,2-Dibromo-3-chloropropane	78		30-139						
Dibromochloromethane	101		51-128						
1,2-Dibromoethane	100		54-129						
Dibromomethane	101		57-130						
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	92		34-134						
1,4-Dichlorobenzene	93		35-136						
Dichlorodifluoromethane	70		26-151						
1,1-Dichloroethane	98		63-142						
1,2-Dichloroethane	99		68-131						
1,1-Dichloroethene	103		61-149						
cis-1,2-Dichloroethene	103		60-136						
trans-1,2-Dichloroethene	103		59-142						
1,2-Dichloropropane	95		62-135						
1,3-Dichloropropane	95		58-129						
2,2-Dichloropropane	102		53-147						
1,1-Dichloropropene	97		54-145						
cis-1,3-Dichloropropene	86		51-131						
trans-1,3-Dichloropropene	87		49-129						
Ethylbenzene	95		44-141						
Freon 113	103		56-156						
Hexachlorobutadiene	84		10-155						
2-Hexanone	66		32-160						
Isopropylbenzene	93		38-144						
p-Isopropyltoluene	90		29-152						
Methyl Tertiary Butyl Ether	94		55-129						
4-Methyl-2-pentanone	64		46-139						
Methylene Chloride	94		61-141						
n-Propylbenzene	92		39-157						
Styrene	99		35-134						
1,1,1,2-Tetrachloroethane	106		52-130						
1,1,2,2-Tetrachloroethane	86		40-152						
Tetrachloroethene	107		42-149						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Toluene	100		50-146						
1,2,3-Trichlorobenzene	82		10-140						
1,2,4-Trichlorobenzene	77		10-136						
1,1,1-Trichloroethane	100		64-142						
1,1,2-Trichloroethane	102		54-139						
Trichloroethene	100		53-144						
Trichlorofluoromethane	87		47-163						
1,2,3-Trichloropropane	92		45-154						
1,2,4-Trimethylbenzene	90		37-149						
1,3,5-Trimethylbenzene	90		38-150						
Vinyl Chloride	78		50-154						
m+p-Xylene	101		44-137						
o-Xylene	91		42-137						
Batch number: E110171AA	Sample number(s): 6183546-6183547,6183549,6183551,6183553-6183554,6183557 UNSPK: P182855								
1,4-Dioxane	91	92	70-130	16	30				
Batch number: 11019SLA026	Sample number(s): 6183546-6183557 UNSPK: 6183546								
Aniline	70	74	14-114	5	30				
Benzidine	27*	33*	35-141	19	30				
Benzoic acid	57	58	10-173	1	30				
Benzyl alcohol	94	96	55-123	2	30				
4-Bromophenyl-phenylether	90	93	67-129	3	30				
Carbazole	95	95	64-120	0	30				
4-Chloro-3-methylphenol	94	94	53-130	0	30				
4-Chloroaniline	54	59	23-95	9	30				
bis(2-Chloroethoxy)methane	91	90	54-117	1	30				
bis(2-Chloroethyl)ether	89	90	60-116	0	30				
bis(2-Chloroisopropyl)ether	90	87	55-142	3	30				
2-Chloronaphthalene	76	76	50-141	1	30				
2-Chlorophenol	97	96	73-121	1	30				
4-Chlorophenyl-phenylether	93	95	64-119	2	30				
Dibenzofuran	94	95	71-112	1	30				
1,2-Dichlorobenzene	86	85	66-108	1	30				
1,3-Dichlorobenzene	84	83	63-109	0	30				
1,4-Dichlorobenzene	84	83	53-113	1	30				
3,3'-Dichlorobenzidine	48	52	25-123	8	30				
2,4-Dichlorophenol	95	95	78-117	0	30				
2,4-Dimethylphenol	94	93	56-130	1	30				
3,5-Dimethylphenol	105	107	70-130	2	30				
4,6-Dinitro-2-methylphenol	83	81	10-148	3	30				
2,4-Dinitrophenol	70	66	20-143	6	30				
2,4-Dinitrotoluene	95	98	57-114	3	30				
2,6-Dinitrotoluene	96	97	69-123	1	30				
1,2-Diphenylhydrazine	96	98	71-129	2	30				
bis(2-Ethylhexyl)phthalate	92	93	63-122	0	30				
Hexachlorobenzene	90	92	61-111	2	30				
Hexachlorobutadiene	87	85	62-120	2	30				
Hexachlorocyclopentadiene	79	81	10-153	3	30				
Hexachloroethane	81	80	57-109	1	30				
Isophorone	91	91	51-118	0	30				
2-Methylphenol	98	98	47-142	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Methylphenol	92	93	55-126	1	30				
2-Nitroaniline	96	98	67-125	1	30				
3-Nitroaniline	95	96	59-122	1	30				
4-Nitroaniline	79	77	52-112	3	30				
Nitrobenzene	90	90	51-114	1	30				
2-Nitrophenol	92	92	74-115	0	30				
4-Nitrophenol	79	77	39-133	2	30				
N-Nitroso-di-n-propylamine	91	91	60-116	1	30				
N-Nitrosodiphenylamine	93	95	86-145	3	30				
Di-n-octylphthalate	95	95	56-126	0	30				
Pentachlorophenol	87	85	17-149	1	30				
Phenol	95	97	58-126	2	30				
1,2,4-Trichlorobenzene	90	89	72-115	1	30				
2,4,5-Trichlorophenol	93	97	34-139	4	30				
2,4,6-Trichlorophenol	93	93	49-140	1	30				
Batch number: 11020SLB026	Sample number(s): 6183546-6183557 UNSPK: 6183546								
Acenaphthene	91	89	63-105	3	30				
Acenaphthylene	85	84	55-126	2	30				
Anthracene	89	90	46-136	2	30				
Benzo(a)anthracene	88	91	39-144	3	30				
Benzo(a)pyrene	108	114	34-156	5	30				
Benzo(b)fluoranthene	110	116	43-155	5	30				
Benzo(g,h,i)perylene	91	102	33-141	11	30				
Benzo(k)fluoranthene	111	117	42-144	5	30				
Butylbenzylphthalate	98	101	73-140	3	30				
Di-n-butylphthalate	99	103	78-160	4	30				
Chrysene	88	90	29-156	2	30				
Dibenz(a,h)anthracene	108	113	41-130	4	30				
Diethylphthalate	93	94	87-131	0	30				
Dimethylphthalate	92	90	74-118	2	30				
Fluoranthene	92	95	26-166	4	30				
Fluorene	93	91	45-121	2	30				
Indeno(1,2,3-cd)pyrene	104	108	21-143	4	30				
1-Methylnaphthalene	85	81	72-123	4	30				
2-Methylnaphthalene	77	73	28-121	5	30				
Naphthalene	83	81	61-102	3	30				
N-Nitrosodimethylamine	96	91	48-113	5	30				
Di-n-octylphthalate	102	107	40-192	4	30				
Phenanthrene	85	88	12-165	3	30				
Pyrene	81	83	15-153	2	30				
Batch number: 110190027A	Sample number(s): 6183555-6183556 UNSPK: 6183555								
2,4-D	90	57	28-161	45*	35				
Dalapon	47	33	12-86	34	50				
2,4-DB	123	0*	20-170	200*	50				
Dicamba	118	159*	33-120	30	50				
Dinoseb	22	17	1-44	21	35				
2,4-DP (Dichlorprop)	64	95	55-141	39	50				
MCPA	91	74	31-184	21	50				
MCPP (Mecoprop)	0*	0*	16-174	0	50				
2,4,5-T	59	95	25-132	47*	35				
2,4,5-TP	82	87	10-183	6	35				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110200023A	Sample number(s): 6183557 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110170030A	Sample number(s): 6183546-6183557 UNSPK: 6183546								
PCB-1016	81	85	29-146	4	50				
PCB-1260	117	116	39-149	1	50				
Batch number: 110170031A	Sample number(s): 6183555-6183556 UNSPK: P178512								
Aldrin	100	100	16-126	0	50				
Alpha BHC	70	70	10-129	0	50				
Beta BHC	75	81	14-147	8	50				
Gamma BHC - Lindane	73	73	10-140	0	50				
p,p-DDD	70	76	16-163	8	50				
p,p-DDE	88	129	18-161	28	50				
p,p-DDT	63	66	10-176	4	50				
Delta BHC	75	78	23-140	4	50				
Dieldrin	65	65	19-154	0	50				
Endosulfan I	45	48	16-137	6	50				
Endosulfan II	82	80	28-154	2	50				
Endosulfan Sulfate	97	97	21-160	0	50				
Endrin	65	65	11-149	0	50				
Endrin Aldehyde	64	67	10-148	5	35				
Endrin Ketone	95	114	22-165	17	50				
Heptachlor	73	73	13-126	0	50				
Heptachlor Epoxide	91	94	13-157	3	50				
Methoxychlor	79	81	32-147	3	50				
Batch number: 110191026001A	Sample number(s): 6183546-6183557 UNSPK: P182836 BKG: P182836								
Antimony	34*	33*	75-125	2	20	0.193 J	0.140 J	32* (1)	20
Arsenic	113	96	75-125	5	20	4.51	4.34	4	20
Beryllium	97	81	75-125	9	20	0.700	0.666	5	20
Cadmium	99	101	75-125	2	20	0.0829 J	0.0965 J	15 (1)	20
Chromium	105	89	75-125	6	20	17.3	17.4	0	20
Cobalt	91	90	75-125	1	20	5.30	4.93	7	20
Copper	94	97	75-125	2	20	6.55	6.93	6	20
Lead	105	98	75-125	2	20	6.17	5.73	7	20
Nickel	97	91	75-125	3	20	10.7	10.6	1	20
Silver	105	101	75-125	4	20	0.0343 J	0.0502 J	38* (1)	20
Thallium	104	103	75-125	0	20	0.225	0.217	3 (1)	20
Vanadium	129*	92	75-125	8	20	33.0	32.6	1	20
Zinc	98 (2)	91 (2)	75-125	1	20	42.4	44.7	5	20
Batch number: 110191026001B	Sample number(s): 6183546-6183557 UNSPK: P182836 BKG: P182836								
Selenium	86	90	75-125	4	20	0.121 J	0.0586 J	70* (1)	20
Batch number: 110191026001C	Sample number(s): 6183546-6183557 UNSPK: P182836 BKG: P182836								
Molybdenum	103	97	75-125	5	20	0.597	0.557	7	20
Batch number: 110191026001D	Sample number(s): 6183546-6183557 UNSPK: P182836 BKG: P182836								
Barium	174 (2)	34 (2)	75-125	13	20	92.6	91.6	1	20
Batch number: 110195708001	Sample number(s): 6183546-6183557 UNSPK: P182836 BKG: P182836								

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Quality Control Summary

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Reported: 02/08/11 at 01:21 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Aluminum	2916 (2)	2165 (2)	75-125	7	20	19,700	18,600	6	20
Boron	96	94	84-115	5	20	0.873 U	0.864 U	0 (1)	20
Calcium	-191 (2)	-226 (2)	75-125	3	20	4,200	2,630	46*	20
Iron	2136 (2)	1901 (2)	75-125	1	20	20,000	19,200	5	20
Lithium	104	102	82-114	4	20	20.6	20.3	1	20
Magnesium	292 (2)	253 (2)	75-125	2	20	3,770	3,650	3	20
Manganese	158 (2)	98 (2)	75-125	11	20	229	234	2	20
Phosphorus	101	114	75-125	3	20	180	185	3	20
Potassium	135*	135*	75-125	1	20	1,700	1,920	12	20
Sodium	97	97	75-125	3	20	189	153	21* (1)	20
Strontium	97	95	75-115	4	20	26.3	22.5	16	20
Tin	90	89	80-110	4	20	2.34 J	2.37 J	1 (1)	20
Titanium	249 (2)	241 (2)	75-125	1	20	1,050	1,050	0	20
Zirconium	97	96	75-125	3	20	2.68 J	2.96 J	10 (1)	20
Batch number: 110215711003	Sample number(s): 6183546-6183557 UNSPK: P182836 BKG: P182836								
Mercury	120	117	65-135	2	20	0.0262 J	0.0294 J	12 (1)	20
Batch number: 11019621701A	Sample number(s): 6183558-6183559 UNSPK: P177278 BKG: P177278								
7b Perchlorate EPA 314.0	96		80-120			0.70 U	0.70 U	0 (1)	15
Batch number: 11020621201A	Sample number(s): 6183546-6183549 UNSPK: P182855 BKG: P182855								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11020621201B	Sample number(s): 6183550-6183557 UNSPK: 6183550 BKG: 6183550								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11025025203A	Sample number(s): 6183546-6183555 UNSPK: 6183546 BKG: 6183546								
11a Anions by 300.0 - Fluoride	85		80-120			6.4	6.3	0	20
Batch number: 11025025203B	Sample number(s): 6183556-6183557 UNSPK: 6183556 BKG: 6183556								
11a Anions by 300.0 - Fluoride	79*		80-120			1.4	1.0	31* (1)	20
Batch number: 11025243202A	Sample number(s): 6183546-6183557 UNSPK: 6183551 BKG: 6183551								
3a Cr VI by EPA 7199	94		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11018039402A	Sample number(s): 6183546-6183549 BKG: P182859								
22a pH by 9045C						7.25	7.25	0	1
Batch number: 11018039402B	Sample number(s): 6183550-6183557 BKG: 6183550								
22a pH by 9045C						6.81	6.80	0	1
Batch number: 11018182102A	Sample number(s): 6183546-6183549 BKG: P182859								
32a OR Potential						390	390	0	6
Batch number: 11018182102B	Sample number(s): 6183550-6183557 BKG: 6183550								
32a OR Potential						348	348	0	6
Batch number: 11019162401A	Sample number(s): 6183546-6183549 BKG: 6183549								
28a Moisture Content by 160.3						13.8	13.9	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11019162401B	Sample number(s): 6183550-6183557					BKG: 6183552			
28a Moisture Content by 160.3						23.0	22.7	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110172AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6183546	112	113	95	88
6183547	110	106	96	85
6183549	111	105	96	82
6183551	109	106	97	85
6183553	111	107	94	85
6183554	113	109	95	85
6183557	111	105	95	85
Blank	108	107	95	85
LCS	103	107	101	101
LCSD	102	108	101	100
MS	103	107	101	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110171AA

	Toluene-d8
6183546	98
6183547	99
6183549	99
6183551	99
6183553	98
6183554	99
6183557	99
Blank	99
LCS	100
LCSD	100
MS	99
MSD	99
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110191AA

	Toluene-d8

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Surrogate Quality Control

6183560	101					
Blank	100					
LCS	100					
LCSD	100					
Limits:	80-120					

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110141AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6183560	107	100	98	98
Blank	104	98	99	100
LCS	106	102	100	102
LCSD	106	105	100	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11017WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6183558	126	90	98
6183559	131	89	91
Blank	88	90	93
LCS	114	95	94
LCSD	103	95	93
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11018WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6183558	51	32	94	87	88	92
6183559	48	31	91	83	88	89
Blank	42	25	86	81	83	82
LCS	52	32	95	92	95	91
LCSD	60	39	95	91	95	92
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11019SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6183546	90	89	89	85	87	81
6183547	84	84	86	79	81	83
6183548	92	91	93	87	90	87
6183549	86	84	89	79	82	83
6183550	85	84	83	79	81	82
6183551	92	90	88	84	85	88
6183552	86	85	85	78	80	86
6183553	91	89	92	86	89	88
6183554	87	87	87	81	83	84
6183555	91	91	87	86	91	95
6183556	87	84	91	80	85	93

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Quality Control Summary

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Reported: 02/08/11 at 01:21 PM

Surrogate Quality Control

6183557	87	86	83	83	85	89
Blank	94	94	96	88	89	86
LCS	93	93	92	88	91	85
MS	94	94	93	87	90	86
MSD	95	93	94	86	92	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11020SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6183546	87	82	93
6183547	95	82	92
6183548	87	79	83
6183549	92	86	85
6183550	96	87	88
6183551	92	85	84
6183552	101	88	83
6183553	88	84	87
6183554	95	87	87
6183555	110	93	117
6183556	106	88	90
6183557	89	81	89
Blank	84	83	90
LCS	100	86	86
MS	116	88	85
MSD	101	82	84
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110170030A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6183546	82	112
6183547	92	111
6183548	87	106
6183549	91	120
6183550	104	138*
6183551	101	128*
6183552	75	108
6183553	91	131*
6183554	88	135*
6183555	87	146*
6183556	88	152*
6183557	90	140*
Blank	112	126*
LCS	119	118
LCSD	100	114
MS	92	129*
MSD	101	131*
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 110170031A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229054
Reported: 02/08/11 at 01:21 PM

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6183555	36*	22
6183556	71	74
Blank	91	105
LCS	92	106
MS	83	74
MSD	91	82
Limits:	50-130	20-120

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110180016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6183558	95	91
6183559	85	84
Blank	86	80
LCS	103	93
LCSD	100	110
Limits:	30-150	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110190027A

	2,4-Dichlorophenylacetic acid
6183555	86
6183556	98
Blank	86
LCS	86
MS	82
MSD	79
Limits:	36-156

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13013 1229054 6183546-60

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-073-SA5B-SB-4.0-5.0	01.13.1	1231	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-073-SA5B-SB-4.5	01.13.1	1227	SOIL	NONE	4 ENCORES											X	X												
SL-301-SA5B-SB-4.0-5.0	01.13.1	0945	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-301-SA5B-SB-4.5	01.13.1	0941	SOIL	NONE	4 ENCORES											X	X												
SL-301-SA5B-SB-7.5-8.5	01.13.1	0948	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-074-SA5B-SB-4.0-5.0	01.13.1	1111	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-074-SA5B-SB-4.5	01.13.1	1109	SOIL	NONE	4 ENCORES											X	X												
SL-074-SA5B-SB-7.0-8.0	01.13.1	1116	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-121-SA5B-SB-4.0-5.0	01.13.1	1022	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-121-SA5B-SB-4.5	01.13.1	1018	SOIL	NONE	4 ENCORES											X	X												
SL-121-SA5B-SB-9.0-10.0	01.13.1	1027	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-120-SA5B-SB-3.0-4.0	01.13.1	1125	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-120-SA5B-SB-3.5	01.13.1	1120	SOIL	NONE	4 ENCORES											X	X												
SL-119-SA5B-SB-3.0-4.0	01.13.1	0853	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-119-SA5B-SB-3.5	01.13.1	0849	SOIL	NONE	4 ENCORES											X	X												
SED-009-SIV-SD-0.0-0.5	01.13.1	0945	SOIL	NONE	1 16 oz. jar & 1 6" sleeve	X	X	X	X	X	X	X		X	X														
SED-028-SIV-SD-0.0-0.5	01.13.1	1115	SOIL	NONE	1 16 oz. jar & 1 6" sleeve	X	X	X	X	X	X	X		X	X														
SL-122-SA5B-SB-2.0-3.0	01.13.1	1339	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X																
SL-122-SA5B-SB-2.5	01.13.1	1334	SOIL	NONE	4 ENCORES											X	X												
EB20-SA5B-011311	01.13.1	1300	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																			
EB20-SA5B-011311	01.13.1	1300	WATER	NONE	1 - 500 mL POLY		X				X	X																	
EB20-SA5B-011311	01.13.1	1300	WATER	HNO3	1 - 500 mL POLY	X																							
EB21-SA5B-011311	01.13.1	1155	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																			
EB21-SA5B-011311	01.13.1	1155	WATER	NONE	1 - 500 mL POLY		X				X	X																	
EB21-SA5B-011311	01.13.1	1155	WATER	HNO3	1 - 500 mL POLY	X																							
TB-011311	01.13.1	0800	WATER	HCl	3-40 mL VOA VIALS											X	X												

Relinquished by: (Signature) — Date/Time: 1/13/2011, 17:00 — Received for Laboratory by: (Signature) — 1/14/11 — 845

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1431 9917, ...9925, ...9939

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/14/2011
Group Number: 1229056
SDG: DX037
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-073-SA5B-SB-4.0-5.0 Soil	6183563
SL-301-SA5B-SB-4.0-5.0 Soil	6183564
SL-301-SA5B-SB-7.5-8.5 Soil	6183565
SL-074-SA5B-SB-4.0-5.0 Soil	6183566
SL-074-SA5B-SB-7.0-8.0 Soil	6183567

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183563
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS073 SDG#: DX037-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-073-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183563
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS073 SDG#: DX037-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0265	U	0.0265	1.14	1
11031	12378-PeCDD	40321-76-4	0.0353	JQ	0.0310	5.71	1
11031	123478-HxCDD	39227-28-6	0.0190	U	0.0190	5.71	1
11031	123678-HxCDD	57653-85-7	0.0450	JBQ	0.0200	5.71	1
11031	123789-HxCDD	19408-74-3	0.0810	JBQ	0.0194	5.71	1
11031	1234678-HpCDD	35822-46-9	0.378	JBQ	0.0293	5.71	1
11031	OCDD	3268-87-9	0.895	JBQ	0.0279	11.4	1
11031	2378-TCDF	51207-31-9	0.0242	JQ	0.0201	1.14	1
11031	12378-PeCDF	57117-41-6	0.0490	JBQ	0.00971	5.71	1
11031	23478-PeCDF	57117-31-4	0.0786	JB	0.00914	5.71	1
11031	123478-HxCDF	70648-26-9	0.0470	JBQ	0.0137	5.71	1
11031	123678-HxCDF	57117-44-9	0.0564	JBQ	0.0122	5.71	1
11031	123789-HxCDF	72918-21-9	0.0644	JBQ	0.0138	5.71	1
11031	234678-HxCDF	60851-34-5	0.0552	JBQ	0.0123	5.71	1
11031	1234678-HpCDF	67562-39-4	0.138	JB	0.0153	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0326	JBQ	0.0211	5.71	1
11031	OCDF	39001-02-0	0.170	JBQ	0.0326	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	87	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-073-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183563
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS073 SDG#: DX037-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5B-SB-4.0-5.0

LLI Sample # SW 6183563
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 12:31

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS073 SDG#: DX037-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 07:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-301-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183564
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3014 SDG#: DX037-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183564
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3014 SDG#: DX037-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0329	U	0.0329	1.12	1
11031	12378-PeCDD	40321-76-4	0.0350	JQ	0.0312	5.61	1
11031	123478-HxCDD	39227-28-6	0.0227	JBQ	0.0164	5.61	1
11031	123678-HxCDD	57653-85-7	0.0341	JBQ	0.0174	5.61	1
11031	123789-HxCDD	19408-74-3	0.156	JB	0.0166	5.61	1
11031	1234678-HpCDD	35822-46-9	0.286	JB	0.0279	5.61	1
11031	OCDD	3268-87-9	1.47	JB	0.0293	11.2	1
11031	2378-TCDF	51207-31-9	0.0240	U	0.0240	1.12	1
11031	12378-PeCDF	57117-41-6	0.0316	JB	0.0107	5.61	1
11031	23478-PeCDF	57117-31-4	0.0457	JB	0.0103	5.61	1
11031	123478-HxCDF	70648-26-9	0.0245	JB	0.0127	5.61	1
11031	123678-HxCDF	57117-44-9	0.0287	JBQ	0.0116	5.61	1
11031	123789-HxCDF	72918-21-9	0.154	JB	0.0131	5.61	1
11031	234678-HxCDF	60851-34-5	0.0386	JB	0.0116	5.61	1
11031	1234678-HpCDF	67562-39-4	0.129	JB	0.0137	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0262	JB	0.0169	5.61	1
11031	OCDF	39001-02-0	0.170	JB	0.0245	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	91	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183564
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3014 SDG#: DX037-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-301-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-4.0-5.0

LLI Sample # SW 6183564
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3014 SDG#: DX037-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 08:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-301-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183565
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3017 SDG#: DX037-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-301-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183565
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3017 SDG#: DX037-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0208	U	0.0208	1.16	1
11031	12378-PeCDD	40321-76-4	0.0274	U	0.0274	5.80	1
11031	123478-HxCDD	39227-28-6	0.0176	U	0.0176	5.80	1
11031	123678-HxCDD	57653-85-7	0.0347	JBQ	0.0183	5.80	1
11031	123789-HxCDD	19408-74-3	0.0584	JBQ	0.0169	5.80	1
11031	1234678-HpCDD	35822-46-9	0.286	JB	0.0280	5.80	1
11031	OCDD	3268-87-9	1.50	JB	0.0222	11.6	1
11031	2378-TCDF	51207-31-9	0.0182	U	0.0182	1.16	1
11031	12378-PeCDF	57117-41-6	0.0132	JBQ	0.00777	5.80	1
11031	23478-PeCDF	57117-31-4	0.0416	JBQ	0.00766	5.80	1
11031	123478-HxCDF	70648-26-9	0.0404	JB	0.0109	5.80	1
11031	123678-HxCDF	57117-44-9	0.0296	JB	0.0102	5.80	1
11031	123789-HxCDF	72918-21-9	0.0298	JBQ	0.0108	5.80	1
11031	234678-HxCDF	60851-34-5	0.0375	JBQ	0.0103	5.80	1
11031	1234678-HpCDF	67562-39-4	0.143	JB	0.0110	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0284	JB	0.0137	5.80	1
11031	OCDF	39001-02-0	0.189	JB	0.0242	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	89	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-301-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183565
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3017 SDG#: DX037-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-301-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-301-SA5B-SB-7.5-8.5

LLI Sample # SW 6183565
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:48

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3017 SDG#: DX037-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 09:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183566
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0744 SDG#: DX037-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183566
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0744 SDG#: DX037-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0249	U	0.0249	1.16	1
11031	12378-PeCDD	40321-76-4	0.0306	U	0.0306	5.80	1
11031	123478-HxCDD	39227-28-6	0.0172	U	0.0172	5.80	1
11031	123678-HxCDD	57653-85-7	0.0709	JBQ	0.0180	5.80	1
11031	123789-HxCDD	19408-74-3	0.128	JB	0.0167	5.80	1
11031	1234678-HpCDD	35822-46-9	0.281	JB	0.0291	5.80	1
11031	OCDD	3268-87-9	1.23	JB	0.0323	11.6	1
11031	2378-TCDF	51207-31-9	0.0194	U	0.0194	1.16	1
11031	12378-PeCDF	57117-41-6	0.00870	U	0.00870	5.80	1
11031	23478-PeCDF	57117-31-4	0.0420	JBQ	0.00812	5.80	1
11031	123478-HxCDF	70648-26-9	0.0379	JBQ	0.0140	5.80	1
11031	123678-HxCDF	57117-44-9	0.0392	JB	0.0131	5.80	1
11031	123789-HxCDF	72918-21-9	0.153	JBQ	0.0133	5.80	1
11031	234678-HxCDF	60851-34-5	0.0422	JBQ	0.0124	5.80	1
11031	1234678-HpCDF	67562-39-4	0.176	JB	0.0128	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0519	JB	0.0159	5.80	1
11031	OCDF	39001-02-0	0.174	JB	0.0245	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	97	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183566
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0744 SDG#: DX037-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-4.0-5.0

LLI Sample # SW 6183566
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:11

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0744 SDG#: DX037-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 10:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183567
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0747 SDG#: DX037-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183567
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0747 SDG#: DX037-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0288	U	0.0288	1.18	1
11031	12378-PeCDD	40321-76-4	0.0291	U	0.0291	5.90	1
11031	123478-HxCDD	39227-28-6	0.0156	U	0.0156	5.90	1
11031	123678-HxCDD	57653-85-7	0.0164	U	0.0164	5.90	1
11031	123789-HxCDD	19408-74-3	0.0369	JB	0.0152	5.90	1
11031	1234678-HpCDD	35822-46-9	0.212	JBQ	0.0275	5.90	1
11031	OCDD	3268-87-9	0.647	JB	0.0257	11.8	1
11031	2378-TCDF	51207-31-9	0.0176	U	0.0176	1.18	1
11031	12378-PeCDF	57117-41-6	0.0139	JBQ	0.00943	5.90	1
11031	23478-PeCDF	57117-31-4	0.0711	JB	0.00884	5.90	1
11031	123478-HxCDF	70648-26-9	0.0260	JBQ	0.0131	5.90	1
11031	123678-HxCDF	57117-44-9	0.0256	JBQ	0.0118	5.90	1
11031	123789-HxCDF	72918-21-9	0.0314	JBQ	0.0130	5.90	1
11031	234678-HxCDF	60851-34-5	0.0457	JB	0.0118	5.90	1
11031	1234678-HpCDF	67562-39-4	0.162	JB	0.0144	5.90	1
11031	1234789-HpCDF	55673-89-7	0.0373	JBQ	0.0175	5.90	1
11031	OCDF	39001-02-0	0.175	JBQ	0.0263	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183567
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0747 SDG#: DX037-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5B-SB-7.0-8.0

LLI Sample # SW 6183567
LLI Group # 1229056
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:16

Submitted: 01/14/2011 08:45
Reported: 03/03/2011 17:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0747 SDG#: DX037-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025001	02/02/2011 11:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11025001	01/25/2011 12:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229056
Reported: 03/03/11 at 05:31 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11019162401A	Sample number(s): 6183563-6183566								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11019162401B	Sample number(s): 6183567								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11025001	Sample number(s): 6183563-6183567								
2378-TCDD	0.0273 J	0.0144	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0174 U	0.0174	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0187 J	0.00970	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0201 J	0.00980	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0241 J	0.00930	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.176 J	0.0179	5.00	ng/kg	94		70-140		
OCDD	0.416 J	0.0171	10.0	ng/kg	95		78-144		
2378-TCDF	0.0112 U	0.0112	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0248 J	0.00520	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0623 J	0.00520	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0420 J	0.00860	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0468 J	0.00750	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0478 J	0.00880	5.00	ng/kg	87		78-130		
234678-HxCDF	0.0556 J	0.00820	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.156 J	0.00660	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0445 J	0.00940	5.00	ng/kg	92		78-138		
OCDF	0.181 J	0.0162	10.0	ng/kg	86		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11019162401A	Sample number(s): 6183563-6183566 BKG: P183549								
28a Moisture Content by 160.3						13.8	13.9	1	20
Batch number: 11019162401B	Sample number(s): 6183567 BKG: P183552								
28a Moisture Content by 160.3						23.0	22.7	1	20
Batch number: 11025001	Sample number(s): 6183563-6183567 UNSPK: P182842								
2378-TCDD	98	98	67-158	0	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229056
Reported: 03/03/11 at 05:31 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	104	104	70-142	0	25				
123478-HxCDD	105	106	70-164	1	25				
123678-HxCDD	106	105	76-134	1	25				
123789-HxCDD	105	104	64-162	1	25				
1234678-HpCDD	115	105	70-140	9	25				
OCDD	169*	108	78-144	39*	25				
2378-TCDF	109	108	75-158	1	25				
12378-PeCDF	109	108	80-134	1	25				
23478-PeCDF	107	106	68-160	1	25				
123478-HxCDF	108	109	72-134	1	25				
123678-HxCDF	108	108	84-130	1	25				
123789-HxCDF	107	107	78-130	0	25				
234678-HxCDF	107	109	70-156	2	25				
1234678-HpCDF	109	107	82-122	2	25				
1234789-HpCDF	109	109	78-138	0	25				
OCDF	110	107	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11025001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6183563	72	78	79	85	80	81
6183564	63	71	72	77	73	72
6183565	75	74	74	78	75	78
6183566	73	75	78	82	81	84
6183567	68	73	75	80	77	77
Blank	82	75	72	81	74	74
MS	76	82	83	84	83	83
MSD	73	79	81	84	83	81
OPR	69	67	67	76	68	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6183563	96	81	87	87	77	80
6183564	82	80	91	81	70	71
6183565	86	80	89	80	74	74
6183566	92	86	97	83	75	78
6183567	83	80	84	80	71	72
Blank	86	72	71	101	82	88
MS	92	93	107	85	80	84
MSD	95	91	105	83	78	81
OPR	74	61	57	86	71	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229056
Reported: 03/03/11 at 05:31 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6183563	81	79	87	97	71	82
6183564	72	71	77	89	64	74
6183565	72	74	80	90	70	77
6183566	79	79	84	99	70	78
6183567	74	75	79	87	69	75
Blank	88	88	89	90	77	83
MS	80	81	89	102	78	81
MSD	80	80	89	102	74	79
OPR	79	79	76	70	66	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1229056 6183563-67

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-073-SA5B-SB-4.0-5.0	01.13.1	1201	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-073-SA5B-SB-4.5	01.13.1	1227	SOIL	NONE	4 ENCORES											X	X											
SL-301-SA5B-SB-4.0-5.0	01.13.1	0945	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-301-SA5B-SB-4.5	01.13.1	0941	SOIL	NONE	4 ENCORES											X	X											
SL-301-SA5B-SB-7.5-8.5	01.13.1	0948	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-074-SA5B-SB-4.0-5.0	01.13.1	1111	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-074-SA5B-SB-4.5	01.13.1	1105	SOIL	NONE	4 ENCORES											X	X											
SL-074-SA5B-SB-7.0-8.0	01.13.1	1118	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-121-SA5B-SB-4.0-5.0	01.13.1	1022	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-121-SA5B-SB-4.5	01.13.1	1018	SOIL	NONE	4 ENCORES																							
SL-121-SA5B-SB-9.0-10.0	01.13.1	1027	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
SL-120-SA5B-SB-3.0-4.0	01.13.1	1126	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-120-SA5B-SB-3.5	01.13.1	1120	SOIL	NONE	4 ENCORES											X	X											
SL-119-SA5B-SB-3.0-4.0	01.13.1	0853	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-119-SA5B-SB-3.5	01.13.1	0849	SOIL	NONE	4 ENCORES											X	X											
SED-009-SW-SD-0.0-0.5	01.13.1	0945	SOIL	NONE	1 16 oz. jar & 1 6" sleeve	X	X	X	X	X	X	X		X	X													
SED-028-SW-SD-0.0-0.5	01.13.1	1115	SOIL	NONE	1 16 oz. jar & 1 6" sleeve	X	X	X	X	X	X	X		X	X													
SL-122-SA5B-SB-2.0-3.0	01.13.1	1339	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X															
SL-122-SA5B-SB-2.5	01.13.1	1334	SOIL	NONE	4 ENCORES											X	X											
EB20-SA5B-011311	01.13.1	1305	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																		
EB20-SA5B-011311	01.13.1	1305	WATER	NONE	1 - 500 mL POLY		X				X	X																
EB20-SA5B-011311	01.13.1	1305	WATER	HNO3	1 - 500 mL POLY	X																						
EB21-SA5B-011311	01.13.1	1155	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																		
EB21-SA5B-011311	01.13.1	1155	WATER	NONE	1 - 500 mL POLY		X				X	X																
EB21-SA5B-011311	01.13.1	1155	WATER	HNO3	1 - 500 mL POLY	X																						
TB-011311	01.13.1	0800	WATER	HCl	3-40 mL VOA VIALS											X	X											

Relinquished by: (Signature) — Date/Time: 1/13/2011, 17:08

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) — 1/14/11 1545

Airbill No.(s): 8695 1431 9917, ...9928, ...9939

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/14/2011
Group Number: 1229059
SDG: DX038
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-121-SA5B-SB-4.0-5.0 Soil	6183573
SL-121-SA5B-SB-9.0-10.0 Soil	6183574
SL-120-SA5B-SB-3.0-4.0 Soil	6183575
SL-119-SA5B-SB-3.0-4.0 Soil	6183576
SED-009-SIV-SD-0.0-0.5 Sediment	6183577
SED-028-SIV-SD-0.0-0.5 Sediment	6183578
SL-122-SA5B-SB-2.0-3.0 Soil	6183579
EB20-SA5B-011311 Water	6183580
EB21-SA5B-011311 Water	6183581

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183573
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1214 SDG#: DX038-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183573
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1214 SDG#: DX038-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0336	U	0.0336	1.08	1
11031	12378-PeCDD	40321-76-4	0.0256	U	0.0256	5.41	1
11031	123478-HxCDD	39227-28-6	0.0209	U	0.0209	5.41	1
11031	123678-HxCDD	57653-85-7	0.0269	JQ	0.0215	5.41	1
11031	123789-HxCDD	19408-74-3	0.142	J	0.0211	5.41	1
11031	1234678-HpCDD	35822-46-9	0.218	JBQ	0.0304	5.41	1
11031	OCDD	3268-87-9	1.12	JB	0.0325	10.8	1
11031	2378-TCDF	51207-31-9	0.0332	U	0.0332	1.08	1
11031	12378-PeCDF	57117-41-6	0.0150	U	0.0150	5.41	1
11031	23478-PeCDF	57117-31-4	0.0329	JQ	0.0148	5.41	1
11031	123478-HxCDF	70648-26-9	0.0285	JB	0.0137	5.41	1
11031	123678-HxCDF	57117-44-9	0.0201	JBQ	0.0123	5.41	1
11031	123789-HxCDF	72918-21-9	0.133	JBQ	0.0137	5.41	1
11031	234678-HxCDF	60851-34-5	0.0357	JB	0.0125	5.41	1
11031	1234678-HpCDF	67562-39-4	0.106	JBQ	0.0111	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0261	JBQ	0.0162	5.41	1
11031	OCDF	39001-02-0	0.131	JBQ	0.0402	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183573
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1214 SDG#: DX038-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-4.0-5.0

LLI Sample # SW 6183573
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:22

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1214 SDG#: DX038-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 14:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183574
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1219 SDG#: DX038-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	23.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183574
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1219 SDG#: DX038-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0640	U	0.0640	1.30	1
11031	12378-PeCDD	40321-76-4	0.0708	JQ	0.0500	6.49	1
11031	123478-HxCDD	39227-28-6	0.0465	U	0.0465	6.49	1
11031	123678-HxCDD	57653-85-7	0.0730	JQ	0.0494	6.49	1
11031	123789-HxCDD	19408-74-3	0.0733	JQ	0.0473	6.49	1
11031	1234678-HpCDD	35822-46-9	0.369	JBQ	0.0639	6.49	1
11031	OCDD	3268-87-9	0.943	JB	0.0394	13.0	1
11031	2378-TCDF	51207-31-9	0.0619	U	0.0619	1.30	1
11031	12378-PeCDF	57117-41-6	0.0284	U	0.0284	6.49	1
11031	23478-PeCDF	57117-31-4	0.0657	JQ	0.0270	6.49	1
11031	123478-HxCDF	70648-26-9	0.0226	U	0.0226	6.49	1
11031	123678-HxCDF	57117-44-9	0.0525	JB	0.0204	6.49	1
11031	123789-HxCDF	72918-21-9	0.0390	JBQ	0.0239	6.49	1
11031	234678-HxCDF	60851-34-5	0.0354	JBQ	0.0210	6.49	1
11031	1234678-HpCDF	67562-39-4	0.124	JB	0.0195	6.49	1
11031	1234789-HpCDF	55673-89-7	0.0386	JBQ	0.0270	6.49	1
11031	OCDF	39001-02-0	0.158	JB	0.0629	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-121-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183574
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1219 SDG#: DX038-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-121-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5B-SB-9.0-10.0

LLI Sample # SW 6183574
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 10:27

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1219 SDG#: DX038-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 15:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183575
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS120 SDG#: DX038-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183575
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS120 SDG#: DX038-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0446	U	0.0446	1.10	1
11031	12378-PeCDD	40321-76-4	0.0551	JQ	0.0442	5.49	1
11031	123478-HxCDD	39227-28-6	0.0421	JQ	0.0338	5.49	1
11031	123678-HxCDD	57653-85-7	0.0544	JQ	0.0366	5.49	1
11031	123789-HxCDD	19408-74-3	0.0957	JQ	0.0348	5.49	1
11031	1234678-HpCDD	35822-46-9	0.295	JB	0.0420	5.49	1
11031	OCDD	3268-87-9	0.757	JB	0.0338	11.0	1
11031	2378-TCDF	51207-31-9	0.0411	U	0.0411	1.10	1
11031	12378-PeCDF	57117-41-6	0.0322	JQ	0.0195	5.49	1
11031	23478-PeCDF	57117-31-4	0.0688	JQ	0.0200	5.49	1
11031	123478-HxCDF	70648-26-9	0.0429	JBQ	0.0184	5.49	1
11031	123678-HxCDF	57117-44-9	0.0319	JBQ	0.0161	5.49	1
11031	123789-HxCDF	72918-21-9	0.0354	JB	0.0188	5.49	1
11031	234678-HxCDF	60851-34-5	0.0440	JB	0.0173	5.49	1
11031	1234678-HpCDF	67562-39-4	0.122	JBQ	0.0150	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0263	JBQ	0.0212	5.49	1
11031	OCDF	39001-02-0	0.201	JB	0.0532	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183575
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS120 SDG#: DX038-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5B-SB-3.0-4.0

LLI Sample # SW 6183575
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:25

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS120 SDG#: DX038-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 19:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-119-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183576
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS119 SDG#: DX038-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183576
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS119 SDG#: DX038-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0425	U	0.0425	1.13	1
11031	12378-PeCDD	40321-76-4	0.0336	U	0.0336	5.63	1
11031	123478-HxCDD	39227-28-6	0.0265	U	0.0265	5.63	1
11031	123678-HxCDD	57653-85-7	0.0347	JQ	0.0261	5.63	1
11031	123789-HxCDD	19408-74-3	0.0680	JQ	0.0273	5.63	1
11031	1234678-HpCDD	35822-46-9	0.214	JBQ	0.0410	5.63	1
11031	OCDD	3268-87-9	0.808	JB	0.0343	11.3	1
11031	2378-TCDF	51207-31-9	0.0393	U	0.0393	1.13	1
11031	12378-PeCDF	57117-41-6	0.0519	JQ	0.0197	5.63	1
11031	23478-PeCDF	57117-31-4	0.0930	JQ	0.0186	5.63	1
11031	123478-HxCDF	70648-26-9	0.0376	JBQ	0.0186	5.63	1
11031	123678-HxCDF	57117-44-9	0.0324	JBQ	0.0164	5.63	1
11031	123789-HxCDF	72918-21-9	0.0460	JBQ	0.0186	5.63	1
11031	234678-HxCDF	60851-34-5	0.0483	JB	0.0179	5.63	1
11031	1234678-HpCDF	67562-39-4	0.126	JB	0.0125	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0176	U	0.0176	5.63	1
11031	OCDF	39001-02-0	0.238	JBQ	0.0453	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183576
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS119 SDG#: DX038-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-119-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA5B-SB-3.0-4.0

LLI Sample # SW 6183576
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 08:53

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS119 SDG#: DX038-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 19:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-009-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183577
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD009 SDG#: DX038-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	23.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-009-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183577
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD009 SDG#: DX038-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0507	U	0.0507	1.31	1
11031	12378-PeCDD	40321-76-4	0.245	JQ	0.0590	6.54	1
11031	123478-HxCDD	39227-28-6	0.183	JQ	0.0590	6.54	1
11031	123678-HxCDD	57653-85-7	0.490	JQ	0.0620	6.54	1
11031	123789-HxCDD	19408-74-3	0.354	JQ	0.0575	6.54	1
11031	1234678-HpCDD	35822-46-9	7.27	B	0.0629	6.54	1
11031	OCDD	3268-87-9	54.6	B	0.0522	13.1	1
11031	2378-TCDF	51207-31-9	0.338	JQ	0.162	1.31	1
11031	12378-PeCDF	57117-41-6	0.618	J	0.0618	6.54	1
11031	23478-PeCDF	57117-31-4	0.956	J	0.0582	6.54	1
11031	123478-HxCDF	70648-26-9	0.531	JBQ	0.0460	6.54	1
11031	123678-HxCDF	57117-44-9	0.282	JBQ	0.0401	6.54	1
11031	123789-HxCDF	72918-21-9	0.0676	JBQ	0.0452	6.54	1
11031	234678-HxCDF	60851-34-5	0.275	JBQ	0.0405	6.54	1
11031	1234678-HpCDF	67562-39-4	1.52	JB	0.0378	6.54	1
11031	1234789-HpCDF	55673-89-7	0.158	JB	0.0489	6.54	1
11031	OCDF	39001-02-0	2.84	JB	0.0610	13.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	103	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	105	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	104	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	101	26 - 138
13C12-OCDF	98	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-009-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183577
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD009 SDG#: DX038-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-009-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-009-SIV-SD-0.0-0.5

LLI Sample # SW 6183577
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 09:45

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD009 SDG#: DX038-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 20:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

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Analysis Report

Sample Description: **SED-028-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183578
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD028 SDG#: DX038-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	29.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SED-028-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183578
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD028 SDG#: DX038-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0460	U	0.0460	1.42	1
11031	12378-PeCDD	40321-76-4	0.0453	U	0.0453	7.08	1
11031	123478-HxCDD	39227-28-6	0.123	J	0.0441	7.08	1
11031	123678-HxCDD	57653-85-7	0.226	J	0.0443	7.08	1
11031	123789-HxCDD	19408-74-3	0.156	J	0.0452	7.08	1
11031	1234678-HpCDD	35822-46-9	2.91	JB	0.0559	7.08	1
11031	OCDD	3268-87-9	31.3	B	0.0508	14.2	1
11031	2378-TCDF	51207-31-9	0.0948	J	0.0707	1.42	1
11031	12378-PeCDF	57117-41-6	0.206	J	0.0320	7.08	1
11031	23478-PeCDF	57117-31-4	0.266	JQ	0.0313	7.08	1
11031	123478-HxCDF	70648-26-9	0.163	JBQ	0.0303	7.08	1
11031	123678-HxCDF	57117-44-9	0.0995	JBQ	0.0266	7.08	1
11031	123789-HxCDF	72918-21-9	0.0317	U	0.0317	7.08	1
11031	234678-HxCDF	60851-34-5	0.137	JBQ	0.0279	7.08	1
11031	1234678-HpCDF	67562-39-4	0.663	JB	0.0235	7.08	1
11031	1234789-HpCDF	55673-89-7	0.0991	JBQ	0.0343	7.08	1
11031	OCDF	39001-02-0	1.72	JB	0.0690	14.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-028-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183578
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD028 SDG#: DX038-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SED-028-SIV-SD-0.0-0.5 Sediment**
SSFL Area IV Collocated Soil Sampling
SED-028-SIV-SD-0.0-0.5

LLI Sample # SW 6183578
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:15

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DD028 SDG#: DX038-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 21:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183579
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS122 SDG#: DX038-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183579
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS122 SDG#: DX038-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0534	U	0.0534	1.16	1
11031	12378-PeCDD	40321-76-4	0.0513	JQ	0.0388	5.79	1
11031	123478-HxCDD	39227-28-6	0.0468	U	0.0468	5.79	1
11031	123678-HxCDD	57653-85-7	0.466	JQ	0.0468	5.79	1
11031	123789-HxCDD	19408-74-3	0.560	JQ	0.0446	5.79	1
11031	1234678-HpCDD	35822-46-9	0.411	JBQ	0.0571	5.79	1
11031	OCDD	3268-87-9	4.24	JB	0.0490	11.6	1
11031	2378-TCDF	51207-31-9	0.0414	U	0.0414	1.16	1
11031	12378-PeCDF	57117-41-6	0.0200	U	0.0200	5.79	1
11031	23478-PeCDF	57117-31-4	0.0554	JQ	0.0195	5.79	1
11031	123478-HxCDF	70648-26-9	0.0370	JBQ	0.0226	5.79	1
11031	123678-HxCDF	57117-44-9	0.121	JBQ	0.0196	5.79	1
11031	123789-HxCDF	72918-21-9	0.105	JB	0.0238	5.79	1
11031	234678-HxCDF	60851-34-5	0.0221	JBQ	0.0202	5.79	1
11031	1234678-HpCDF	67562-39-4	0.124	JB	0.0138	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0358	JB	0.0212	5.79	1
11031	OCDF	39001-02-0	0.418	JB	0.0530	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183579
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS122 SDG#: DX038-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5B-SB-2.0-3.0

LLI Sample # SW 6183579
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:39

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS122 SDG#: DX038-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 22:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401B	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB20-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB20-SA5B-011311

LLI Sample # WW 6183580
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:00

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB20 SDG#: DX038-19EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.241	U	0.241	2.17	1
10915	12378-PeCDD	40321-76-4	0.271	U	0.271	10.9	1
10915	123478-HxCDD	39227-28-6	0.167	JBQ	0.145	10.9	1
10915	123678-HxCDD	57653-85-7	0.509	JBQ	0.150	10.9	1
10915	123789-HxCDD	19408-74-3	0.189	JQ	0.143	10.9	1
10915	1234678-HpCDD	35822-46-9	2.25	JB	0.287	10.9	1
10915	OCDD	3268-87-9	5.27	JB	0.306	21.7	1
10915	2378-TCDF	51207-31-9	0.174	U	0.174	2.17	1
10915	12378-PeCDF	57117-41-6	0.132	JBQ	0.0897	10.9	1
10915	23478-PeCDF	57117-31-4	0.481	JBQ	0.0832	10.9	1
10915	123478-HxCDF	70648-26-9	0.640	JBQ	0.158	10.9	1
10915	123678-HxCDF	57117-44-9	0.378	JBQ	0.145	10.9	1
10915	123789-HxCDF	72918-21-9	0.152	U	0.152	10.9	1
10915	234678-HxCDF	60851-34-5	0.725	JB	0.138	10.9	1
10915	1234678-HpCDF	67562-39-4	3.35	JB	0.147	10.9	1
10915	1234789-HpCDF	55673-89-7	0.385	JBQ	0.180	10.9	1
10915	OCDF	39001-02-0	2.41	JB	0.293	21.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB20-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB20-SA5B-011311

LLI Sample # WW 6183580
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 13:00

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB20 SDG#: DX038-19EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025002	02/02/2011 22:52	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11025002	01/26/2011 05:55	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB21-SA5B-011311 Water
SSFL Area IV Collocated Soil Sampling
EB21-SA5B-011311

LLI Sample # WW 6183581
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:55

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB21 SDG#: DX038-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.235	U	0.235	2.03	1
10915	12378-PeCDD	40321-76-4	0.270	U	0.270	10.2	1
10915	123478-HxCDD	39227-28-6	0.175	U	0.175	10.2	1
10915	123678-HxCDD	57653-85-7	0.180	U	0.180	10.2	1
10915	123789-HxCDD	19408-74-3	0.360	JQ	0.177	10.2	1
10915	1234678-HpCDD	35822-46-9	1.75	JBQ	0.319	10.2	1
10915	OCDD	3268-87-9	4.78	JB	0.387	20.3	1
10915	2378-TCDF	51207-31-9	0.170	U	0.170	2.03	1
10915	12378-PeCDF	57117-41-6	0.173	JBQ	0.103	10.2	1
10915	23478-PeCDF	57117-31-4	0.660	JBQ	0.0953	10.2	1
10915	123478-HxCDF	70648-26-9	0.477	JBQ	0.149	10.2	1
10915	123678-HxCDF	57117-44-9	0.581	JBQ	0.141	10.2	1
10915	123789-HxCDF	72918-21-9	0.313	JBQ	0.150	10.2	1
10915	234678-HxCDF	60851-34-5	0.656	JBQ	0.134	10.2	1
10915	1234678-HpCDF	67562-39-4	3.69	JBQ	0.144	10.2	1
10915	1234789-HpCDF	55673-89-7	0.282	JBQ	0.160	10.2	1
10915	OCDF	39001-02-0	2.42	JBQ	0.302	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB21-SA5B-011311 Water**
SSFL Area IV Collocated Soil Sampling
EB21-SA5B-011311

LLI Sample # WW 6183581
LLI Group # 1229059
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/13/2011 11:55

Submitted: 01/14/2011 08:45
Reported: 03/01/2011 19:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB21 SDG#: DX038-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025002	02/02/2011 23:49	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11025002	01/26/2011 05:55	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229059
Reported: 03/01/11 at 07:49 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11019162401B	Sample number(s): 6183573-6183579									
28a Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11025002	Sample number(s): 6183580-6183581									
2378-TCDD	0.212	U	0.212	2.00	pg/l	100		67-158		
12378-PeCDD	0.265	J	0.231	10.0	pg/l	104		70-142		
123478-HxCDD	0.161	J	0.140	10.0	pg/l	107		70-164		
123678-HxCDD	0.155	J	0.148	10.0	pg/l	106		76-134		
123789-HxCDD	0.146	U	0.146	10.0	pg/l	106		64-162		
1234678-HpCDD	1.97	J	0.274	10.0	pg/l	111		70-140		
OCDD	4.75	J	0.252	20.0	pg/l	117		78-144		
2378-TCDF	0.291	J	0.168	2.00	pg/l	107		75-158		
12378-PeCDF	0.284	J	0.0732	10.0	pg/l	106		80-134		
23478-PeCDF	0.530	J	0.0682	10.0	pg/l	105		68-160		
123478-HxCDF	0.784	J	0.122	10.0	pg/l	111		72-134		
123678-HxCDF	0.463	J	0.112	10.0	pg/l	108		84-130		
123789-HxCDF	0.178	J	0.123	10.0	pg/l	108		78-130		
234678-HxCDF	0.865	J	0.110	10.0	pg/l	109		70-156		
1234678-HpCDF	3.23	J	0.136	10.0	pg/l	113		82-122		
1234789-HpCDF	0.279	J	0.162	10.0	pg/l	113		78-138		
OCDF	2.06	J	0.262	20.0	pg/l	118		63-170		
Batch number: 11026001	Sample number(s): 6183573-6183579									
2378-TCDD	0.0468	U	0.0468	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0442	U	0.0442	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0330	U	0.0330	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0335	U	0.0335	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0310	U	0.0310	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.231	J	0.0445	5.00	ng/kg	92		70-140		
OCDD	0.604	J	0.0380	10.0	ng/kg	91		78-144		
2378-TCDF	0.0493	U	0.0493	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0235	U	0.0235	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0240	U	0.0240	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0920	J	0.0277	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0350	J	0.0216	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0311	J	0.0260	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0717	J	0.0249	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.285	J	0.0192	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0343	J	0.0273	5.00	ng/kg	92		78-138		
OCDF	0.323	J	0.0569	10.0	ng/kg	93		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229059
Reported: 03/01/11 at 07:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11019162401B	Sample number(s): 6183573-6183579					BKG: P183552			
28a Moisture Content by 160.3						23.0	22.7	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11025002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6183580	73	79	73	77	78	78
6183581	65	69	65	67	68	70
Blank	77	86	83	85	87	88
OPR	76	82	78	84	82	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6183580	74	71	73	88	75	73
6183581	64	68	73	84	64	64
Blank	84	86	89	98	83	82
OPR	83	87	96	93	78	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6183580	73	73	71	76	77	79
6183581	64	63	64	67	69	68
Blank	82	81	82	87	83	89
OPR	78	78	81	89	79	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11026001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6183573	70	82	74	80	77	83
6183574	66	78	70	76	73	77
6183575	76	85	75	86	81	88
6183576	70	84	72	78	75	84
6183577	93	105	88	97	96	104
6183578	83	91	79	87	83	88
6183579	66	75	71	78	76	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229059
Reported: 03/01/11 at 07:49 PM

Surrogate Quality Control

Blank	76	76	69	85	75	83
OPR	62	71	58	69	67	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6183573	91	78	77	87	85	79
6183574	81	76	73	84	79	74
6183575	93	83	81	91	85	83
6183576	87	79	76	91	83	76
6183577	101	101	98	105	101	94
6183578	98	84	77	92	97	90
6183579	90	76	72	81	84	78
Blank	93	81	81	91	79	80
OPR	76	71	68	78	74	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6183573	80	79	85	83	71	85
6183574	74	74	79	79	68	78
6183575	81	84	88	90	76	90
6183576	77	75	81	83	70	85
6183577	95	97	103	103	93	104
6183578	93	88	90	89	87	95
6183579	82	81	82	80	66	78
Blank	81	84	91	93	71	85
OPR	71	71	77	75	64	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1229059 61835 5 73-81

AHO 1/14/11

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex. Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenoids EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-073-SA5B-SB-4.0-5.0	01.13.1	1231	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-073-SA5B-SB-4.5	01.13.1	1227	SOIL	NONE	4 ENCORES																								
SL-301-SA5B-SB-4.0-5.0	01.13.1	0945	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X												
SL-301-SA5B-SB-4.5	01.13.1	0941	SOIL	NONE	4 ENCORES																								
SL-301-SA5B-SB-7.5-8.5	01.13.1	0948	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X												
SL-074-SA5B-SB-4.0-5.0	01.13.1	1111	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-074-SA5B-SB-4.5	01.13.1	1109	SOIL	NONE	4 ENCORES																								
SL-074-SA5B-SB-7.0-8.0	01.13.1	1116	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X												
SL-121-SA5B-SB-4.0-5.0	01.13.1	1022	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-121-SA5B-SB-4.5	01.13.1	1018	SOIL	NONE	4 ENCORES																								
SL-121-SA5B-SB-9.0-10.0	01.13.1	1027	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X												
SL-120-SA5B-SB-3.0-4.0	01.13.1	1125	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-120-SA5B-SB-3.5	01.13.1	1120	SOIL	NONE	4 ENCORES																								
SL-119-SA5B-SB-3.0-4.0	01.13.1	0853	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X												
SL-119-SA5B-SB-3.5	01.13.1	0849	SOIL	NONE	4 ENCORES																								
SED-009-SW-SD-0.0-0.5	01.13.1	0945	SOIL	NONE	1 16 oz. jar & 1 6" sleeve	X	X	X	X	X	X	X		X	X	X	X												
SED-026-SW-SD-0.0-0.5	01.13.1	1115	SOIL	NONE	1 16 oz. jar & 1 6" sleeve	X	X	X	X	X	X	X		X	X														
SL-122-SA5B-SB-2.0-3.0	01.13.1	1339	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X																
SL-122-SA5B-SB-2.5	01.13.1	1334	SOIL	NONE	4 ENCORES																								
EB20-SA5B-011311	01.13.1	1300	WATER	NONE	4 1L AMBER BOTTLES			X	X	X						X	X												
EB20-SA5B-011311	01.13.1	1300	WATER	NONE	1 - 500 mL POLY		X				X	X																	
EB20-SA5B-011311	01.13.1	1300	WATER	HNO3	1 - 500 mL POLY	X																							
EB21-SA5B-011311	01.13.1	1155	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																			
EB21-SA5B-011311	01.13.1	1155	WATER	NONE	1 - 500 mL POLY		X				X	X																	
EB21-SA5B-011311	01.13.1	1155	WATER	HNO3	1 - 500 mL POLY	X																							
TB-011311	01.13.1	0800	WATER	HCl	3-40 mL VOA VIALS											X	X												

Relinquished by: (Signature) — Date/Time: 1/13/2011, 17:08

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) — 1/14/11 1845

Airbill No.[s]: 8695 1431 9917, ...9928, ...9938

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/15/2011
Group Number: 1229205
SDG: DE061
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
EB22-SA5B-011411 Water	6184375
SL-124-SA5B-SB-4.0-5.0 Soil	6184376
SL-124-SA5B-SB-7.5-8.5 Soil	6184377
SL-126-SA5B-SB-2.0-3.0 Soil	6184378
SL-128-SA5B-SB-4.0-5.0 Soil	6184379
SL-125-SA5B-SB-4.0-5.0 Soil	6184380
SL-129-SA5B-SB-2.0-3.0 Soil	6184381
SL-083-SA5B-SB-4.0-5.0 Soil	6184382
SL-081-SA5B-SB-2.5-3.5 Soil	6184383
SL-081-SA5B-SB-6.0-7.0 Soil	6184384
TB-011411 Water	6184385

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB22-SA5B-011411 Water**
SSFL Area IV Collocated Soil Sampling
EB22-SA5B-011411

LLI Sample # WW 6184375
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:30

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6101 SDG#: DE061-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.16		0.496	0.991		1
	N-Nitrosodimethylamine is detected in the method blank at an estimated concentration of 0.736 ng/l. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.31	U	0.31	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.5		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	17b Formaldehyde by 8315A	50-00-0	24	J	10	50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB22-SA5B-011411 Water**
SSFL Area IV Collocated Soil Sampling
EB22-SA5B-011411

LLI Sample # WW 6184375
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:30

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6101 SDG#: DE061-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
	Formaldehyde was detected in the method blank at a concentration of 13 ug/l. A reextraction was performed outside the sample hold time. Due to limited sample volume, only 35 ml of sample was extracted in the reextraction. All QC is within the QC limits in the reextraction. Formaldehyde was not detected in the reextracted sample.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.63		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.082	U	0.082	0.26		1
10319	o-Terphenyl	84-15-1	0.082	U	0.082	0.26		1
10319	p-Terphenyl	92-94-4	0.082	U	0.082	0.26		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	21b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	6.2		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB22-SA5B-011411 Water
SSFL Area IV Collocated Soil Sampling
EB22-SA5B-011411

LLI Sample # WW 6184375
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:30

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6101 SDG#: DE061-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	19b NDMA by 1625C	EPA 1625C	1	11019WAD026	01/29/2011 22:23	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11019WAD026	01/19/2011 13:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11018B20A	01/19/2011 15:16	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11018B20A	01/19/2011 15:16	Butch A Sokolowski	1
10131	20b Energetics by 8330A	SW-846 8330A	1	110180003A	01/19/2011 11:00	James H Place	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	110170001A	01/18/2011 15:56	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110170001A	01/17/2011 14:20	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	110180003A	01/18/2011 16:30	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190013A	01/23/2011 23:41	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	110210007A	01/21/2011 14:44	Tyler O Griffin	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	110170024A	01/17/2011 18:18	Dustin A Underkoffler	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	110170017A	01/22/2011 09:22	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	110190013A	01/19/2011 23:00	Elaine F Stoltzfus	1
10304	Terphenyls water prep	SW-846 3510C	1	110170017A	01/17/2011 17:10	JoElla L Rice	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11015373901A	01/15/2011 13:04	Joseph E McKenzie	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	11025117101B	01/25/2011 18:22	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11025117101B	01/25/2011 09:40	Nancy J Shoop	1
00200	22b pH by 9040B	SW-846 9040B	1	11018020001A	01/18/2011 20:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-124-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184376
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6102 SDG#: DE061-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.86
06192	Methylene Chloride	75-09-2	1.6	J	0.24	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184376
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6102 SDG#: DE061-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		23.99
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184376
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6102 SDG#: DE061-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184376
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6102 SDG#: DE061-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,200		5.57	22.2		1
07914	Boron	7440-42-8	1.76	J	0.986	5.54		1
01650	Calcium	7440-70-2	2,670		6.79	22.2		1
01654	Iron	7439-89-6	26,700		5.22	22.2		1
01656	Lithium	7439-93-2	30.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,490		2.82	11.1		1
06958	Manganese	7439-96-5	396		0.0864	0.554		1
10145	Phosphorus	7723-14-0	282		0.621	11.1		1
01662	Potassium	7440-09-7	2,960		19.9	55.4		1
01667	Sodium	7440-23-5	131		41.3	111		1
07968	Strontium	7440-24-6	24.8		0.0687	0.554		1
06969	Tin	7440-31-5	2.61	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,480		0.421	1.11		1
10146	Zirconium	7440-67-7	1.84	J	0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.16		0.0904	0.452		2
06126	Barium	7440-39-3	151		0.122	0.452		2
06127	Beryllium	7440-41-7	1.08		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0698	J	0.0452	0.113		2
06131	Chromium	7440-47-3	30.2		0.136	0.452		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184376
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6102 SDG#: DE061-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	9.03	0.0226	0.113		2
06133	Copper	7440-50-8	13.3	0.0746	0.452		2
06135	Lead	7439-92-1	9.94	0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.651	0.0565	0.113		2
06139	Nickel	7440-02-0	19.7	0.113	0.452		2
06141	Selenium	7782-49-2	0.0835 J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0551 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.387	0.0339	0.113		2
06148	Vanadium	7440-62-2	53.6	0.0249	0.113		2
06149	Zinc	7440-66-6	76.8	0.633	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	399	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-124-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-124-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184376
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6102 SDG#: DE061-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 01:06	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110181AA	01/18/2011 12:45	Jason M Long	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101523518	01/15/2011 14:03	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/23/2011 19:25	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 01:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 11:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:42	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:48	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:03	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184376
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6102 SDG#: DE061-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:43	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 15:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621202A	01/25/2011 04:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 22:04	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621202A	01/20/2011 14:05	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-124-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184377
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6103 SDG#: DE061-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184377
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6103 SDG#: DE061-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184377
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6103 SDG#: DE061-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		5.67	22.6		1
07914	Boron	7440-42-8	1.27	J	1.00	5.64		1
01650	Calcium	7440-70-2	2,820		6.92	22.6		1
01654	Iron	7439-89-6	27,000		5.31	22.6		1
01656	Lithium	7439-93-2	35.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,760		2.87	11.3		1
06958	Manganese	7439-96-5	181		0.0880	0.564		1
10145	Phosphorus	7723-14-0	278		0.632	11.3		1
01662	Potassium	7440-09-7	2,400		20.3	56.4		1
01667	Sodium	7440-23-5	132		42.1	113		1
07968	Strontium	7440-24-6	20.8		0.0699	0.564		1
06969	Tin	7440-31-5	2.68	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,390		0.429	1.13		1
10146	Zirconium	7440-67-7	1.98	J	0.948	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.80		0.0894	0.447		2
06126	Barium	7440-39-3	89.5		0.121	0.447		2
06127	Beryllium	7440-41-7	0.777		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0447	U	0.0447	0.112		2
06131	Chromium	7440-47-3	25.8		0.134	0.447		2
06132	Cobalt	7440-48-4	9.61		0.0223	0.112		2
06133	Copper	7440-50-8	14.6		0.0737	0.447		2
06135	Lead	7439-92-1	8.92		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.515		0.0559	0.112		2
06139	Nickel	7440-02-0	13.3		0.112	0.447		2
06141	Selenium	7782-49-2	0.0475	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.119		0.0134	0.112		2
06145	Thallium	7440-28-0	0.298		0.0335	0.112		2
06148	Vanadium	7440-62-2	48.8		0.0246	0.112		2
06149	Zinc	7440-66-6	59.3		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-124-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184377
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6103 SDG#: DE061-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		mV	mV	mV	mV	
01821	32a OR Potential	n.a.	341	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.62	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/23/2011 21:07	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 01:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 11:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:46	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-124-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184377
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6103 SDG#: DE061-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 06:59	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:07	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:07	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 16:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621202A	01/25/2011 05:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 22:17	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621202A	01/20/2011 14:05	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184378
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6104 SDG#: DE061-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.98
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.4		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.98
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.4		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.98
06192	Methylene Chloride	75-09-2	0.56	J	0.26	4.3		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.98

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Sample Description: SL-126-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184378
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6104 SDG#: DE061-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.98
06192	Toluene	108-88-3	0.11	J	0.09	4.3		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		25.1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-126-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184378
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6104 SDG#: DE061-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1

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Sample Description: SL-126-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184378
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6104 SDG#: DE061-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		5.28	21.0		1
07914	Boron	7440-42-8	1.23	J	0.934	5.25		1
01650	Calcium	7440-70-2	4,540		6.43	21.0		1
01654	Iron	7439-89-6	33,600		24.7	105		5
01656	Lithium	7439-93-2	43.5		0.23	2.1		1
01657	Magnesium	7439-95-4	8,280		2.67	10.5		1
06958	Manganese	7439-96-5	436		0.0819	0.525		1
10145	Phosphorus	7723-14-0	741		0.588	10.5		1
01662	Potassium	7440-09-7	2,700		18.9	52.5		1
01667	Sodium	7440-23-5	175		39.2	105		1
07968	Strontium	7440-24-6	27.4		0.0651	0.525		1
06969	Tin	7440-31-5	2.91	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,400		0.399	1.05		1
10146	Zirconium	7440-67-7	0.882	U	0.882	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.361		0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.5		0.0832	0.416		2
06126	Barium	7440-39-3	142		0.112	0.416		2
06127	Beryllium	7440-41-7	1.01		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0859	J	0.0416	0.104		2
06131	Chromium	7440-47-3	36.1		0.125	0.416		2

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Sample Description: SL-126-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184378
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6104 SDG#: DE061-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	8.30	0.0208	0.104		2
06133	Copper	7440-50-8	29.4	0.0686	0.416		2
06135	Lead	7439-92-1	15.4	0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.855	0.0520	0.104		2
06139	Nickel	7440-02-0	20.4	0.104	0.416		2
06141	Selenium	7782-49-2	0.299 J	0.0416	0.416		2
06142	Silver	7440-22-4	0.0172 J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.370	0.0312	0.104		2
06148	Vanadium	7440-62-2	61.8	0.0229	0.104		2
06149	Zinc	7440-66-6	102	0.582	3.12		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	366	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-126-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-126-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184378
LLI Group # 1229205
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Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
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E6104 SDG#: DE061-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 01:28	Laura M Krieger	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110181AA	01/18/2011 13:05	Jason M Long	25.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101523518	01/15/2011 14:06	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/23/2011 21:42	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 02:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 13:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:50	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 15:54	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 07:03	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:16	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:16	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184378
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6104 SDG#: DE061-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:50	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 16:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11020621202A	01/25/2011 05:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 22:29	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11020621202A	01/20/2011 14:05	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11018182102B	01/18/2011 12:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11018039402B	01/18/2011 12:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184379
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6105 SDG#: DE061-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.86
06192	Methylene Chloride	75-09-2	1.9	J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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Sample Description: SL-128-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184379
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6105 SDG#: DE061-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.66
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-128-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184379
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6105 SDG#: DE061-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-128-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184379
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6105 SDG#: DE061-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,700		5.64	22.4		1
07914	Boron	7440-42-8	1.83	J	0.997	5.60		1
01650	Calcium	7440-70-2	3,240		6.87	22.4		1
01654	Iron	7439-89-6	33,600		26.4	112		5
01656	Lithium	7439-93-2	36.2		0.25	2.2		1
01657	Magnesium	7439-95-4	6,680		2.85	11.2		1
06958	Manganese	7439-96-5	300		0.0874	0.560		1
10145	Phosphorus	7723-14-0	297		0.628	11.2		1
01662	Potassium	7440-09-7	2,540		20.2	56.0		1
01667	Sodium	7440-23-5	129		41.8	112		1
07968	Strontium	7440-24-6	29.3		0.0695	0.560		1
06969	Tin	7440-31-5	2.97	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,520		0.426	1.12		1
10146	Zirconium	7440-67-7	2.13	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.05		0.0888	0.444		2
06126	Barium	7440-39-3	129		0.120	0.444		2
06127	Beryllium	7440-41-7	0.948		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0444	U	0.0444	0.111		2
06131	Chromium	7440-47-3	27.2		0.133	0.444		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-128-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184379
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6105 SDG#: DE061-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	8.24	0.0222	0.111		2
06133	Copper	7440-50-8	14.2	0.0733	0.444		2
06135	Lead	7439-92-1	9.91	0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.654	0.0555	0.111		2
06139	Nickel	7440-02-0	15.4	0.111	0.444		2
06141	Selenium	7782-49-2	0.0811 J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0945 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.292	0.0333	0.111		2
06148	Vanadium	7440-62-2	51.6	0.0244	0.111		2
06149	Zinc	7440-66-6	62.6	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	373	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-128-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-128-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184379
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6105 SDG#: DE061-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 01:51	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110181AA	01/18/2011 13:24	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101523518	01/15/2011 14:08	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/23/2011 22:16	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 02:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 13:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 15:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 16:02	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 07:07	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:19	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:19	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2

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Sample Description: **SL-128-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184379
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6105 SDG#: DE061-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:52	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 17:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201B	01/25/2011 11:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 22:42	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201B	01/24/2011 12:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184380
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6106 SDG#: DE061-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.3		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.94
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.94
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.94
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.94
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.94
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.94
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.94
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.94
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.94
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.94
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.94
06192	Methylene Chloride	75-09-2	0.47	J	0.25	4.2		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-125-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184380
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6106 SDG#: DE061-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.94
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-125-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184380
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6106 SDG#: DE061-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1

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Sample Description: SL-125-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184380
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6106 SDG#: DE061-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.49	21.8		1
07914	Boron	7440-42-8	0.972	U	0.972	5.46		1
01650	Calcium	7440-70-2	2,790		6.69	21.8		1
01654	Iron	7439-89-6	20,300		5.14	21.8		1
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,800		2.77	10.9		1
06958	Manganese	7439-96-5	264		0.0852	0.546		1
10145	Phosphorus	7723-14-0	369		0.611	10.9		1
01662	Potassium	7440-09-7	2,160		19.7	54.6		1
01667	Sodium	7440-23-5	122		40.7	109		1
07968	Strontium	7440-24-6	17.0		0.0677	0.546		1
06969	Tin	7440-31-5	2.57	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,430		0.415	1.09		1
10146	Zirconium	7440-67-7	1.91	J	0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.76		0.0873	0.437		2
06126	Barium	7440-39-3	57.3		0.118	0.437		2
06127	Beryllium	7440-41-7	0.444		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0437	U	0.0437	0.109		2
06131	Chromium	7440-47-3	20.3		0.131	0.437		2

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Sample Description: SL-125-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184380
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6106 SDG#: DE061-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	4.97	0.0218	0.109		2
06133	Copper	7440-50-8	7.21	0.0721	0.437		2
06135	Lead	7439-92-1	4.87	0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.576	0.0546	0.109		2
06139	Nickel	7440-02-0	9.16	0.109	0.437		2
06141	Selenium	7782-49-2	0.136 J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0190 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.216	0.0328	0.109		2
06148	Vanadium	7440-62-2	37.6	0.0240	0.109		2
06149	Zinc	7440-66-6	43.0	0.611	3.28		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.74	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-125-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-125-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184380
LLI Group # 1229205
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E6106 SDG#: DE061-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 02:13	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110181AA	01/18/2011 13:43	Jason M Long	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101523518	01/15/2011 14:10	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/23/2011 22:50	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 03:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 13:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 16:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 07:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:22	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:22	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2

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Sample Description: **SL-125-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184380
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

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14420 Albemarle Point Place
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Chantilly VA 20151

E6106 SDG#: DE061-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:54	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 17:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201B	01/25/2011 13:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 22:54	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201B	01/24/2011 12:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-129-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184381
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6107 SDG#: DE061-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.92
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.92
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.92
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.92
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.92
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.92
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.92
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.92
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.92
06192	Methylene Chloride	75-09-2	0.97	J	0.24	4.0		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.92

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Sample Description: SL-129-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184381
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6107 SDG#: DE061-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.33
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: **SL-129-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184381
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6107 SDG#: DE061-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1

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Sample Description: SL-129-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184381
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6107 SDG#: DE061-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.23	20.8		1
07914	Boron	7440-42-8	0.926	U	0.926	5.20		1
01650	Calcium	7440-70-2	2,390		6.38	20.8		1
01654	Iron	7439-89-6	16,600		4.90	20.8		1
01656	Lithium	7439-93-2	20.9		0.23	2.1		1
01657	Magnesium	7439-95-4	4,080		2.64	10.4		1
06958	Manganese	7439-96-5	227		0.0812	0.520		1
10145	Phosphorus	7723-14-0	493		0.583	10.4		1
01662	Potassium	7440-09-7	2,760		18.7	52.0		1
01667	Sodium	7440-23-5	103	J	38.8	104		1
07968	Strontium	7440-24-6	12.7		0.0645	0.520		1
06969	Tin	7440-31-5	2.26	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,270		0.395	1.04		1
10146	Zirconium	7440-67-7	0.874	U	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0643	U	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	1.51		0.0857	0.429		2
06126	Barium	7440-39-3	22.5		0.116	0.429		2
06127	Beryllium	7440-41-7	0.116		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0429	U	0.0429	0.107		2
06131	Chromium	7440-47-3	5.33		0.129	0.429		2

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SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184381
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6107 SDG#: DE061-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	1.95	0.0214	0.107		2
06133	Copper	7440-50-8	2.68	0.0707	0.429		2
06135	Lead	7439-92-1	1.12	0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.127	0.0536	0.107		2
06139	Nickel	7440-02-0	3.28	0.107	0.429		2
06141	Selenium	7782-49-2	0.0429 U	0.0429	0.429		2
06142	Silver	7440-22-4	0.0129 U	0.0129	0.107		2
06145	Thallium	7440-28-0	0.0958 J	0.0321	0.107		2
06148	Vanadium	7440-62-2	11.8	0.0236	0.107		2
06149	Zinc	7440-66-6	18.4	0.600	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	408	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.58	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-129-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-129-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184381
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6107 SDG#: DE061-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 02:35	Laura M Krieger	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110181AA	01/18/2011 14:03	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:13	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101523518	01/15/2011 14:14	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/23/2011 23:24	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 04:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 14:13	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 16:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 07:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/23/2011 19:56	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:25	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:25	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2

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Sample Description: **SL-129-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184381
LLI Group # 1229205
Account # 13013

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E6107 SDG#: DE061-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:56	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 18:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201B	01/25/2011 13:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 23:07	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201B	01/24/2011 12:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184382
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6108 SDG#: DE061-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.4		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.83
06192	Methylene Chloride	75-09-2	1.0	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.83

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Sample Description: SL-083-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184382
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E6108 SDG#: DE061-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.83
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.26
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-083-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184382
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

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E6108 SDG#: DE061-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184382
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6108 SDG#: DE061-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	1.2	J	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.49	21.8		1
07914	Boron	7440-42-8	1.51	J	0.972	5.46		1
01650	Calcium	7440-70-2	3,460		6.69	21.8		1
01654	Iron	7439-89-6	29,200		5.14	21.8		1
01656	Lithium	7439-93-2	31.0		0.24	2.2		1
01657	Magnesium	7439-95-4	6,120		2.77	10.9		1
06958	Manganese	7439-96-5	360		0.0852	0.546		1
10145	Phosphorus	7723-14-0	334		0.611	10.9		1
01662	Potassium	7440-09-7	3,100		19.7	54.6		1
01667	Sodium	7440-23-5	187		40.7	109		1
07968	Strontium	7440-24-6	23.1		0.0677	0.546		1
06969	Tin	7440-31-5	2.69	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,420		0.415	1.09		1
10146	Zirconium	7440-67-7	1.60	J	0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.22		0.0891	0.445		2
06126	Barium	7440-39-3	136		0.120	0.445		2
06127	Beryllium	7440-41-7	0.918		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.129		0.0445	0.111		2
06131	Chromium	7440-47-3	27.9		0.134	0.445		2

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Sample Description: SL-083-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184382
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6108 SDG#: DE061-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	8.74	0.0223	0.111		2
06133	Copper	7440-50-8	15.9	0.0735	0.445		2
06135	Lead	7439-92-1	8.55	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.495	0.0557	0.111		2
06139	Nickel	7440-02-0	18.9	0.111	0.445		2
06141	Selenium	7782-49-2	0.0825 J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0796 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.390	0.0334	0.111		2
06148	Vanadium	7440-62-2	50.5	0.0245	0.111		2
06149	Zinc	7440-66-6	70.1	0.624	3.34		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	433	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.24	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-083-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-083-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184382
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6108 SDG#: DE061-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 02:57	Laura M Krieger	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110181AA	01/18/2011 14:22	Jason M Long	20.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101523518	01/15/2011 14:16	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/23/2011 23:58	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 04:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 16:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110270021A	01/28/2011 03:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 16:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 07:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:29	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:29	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2

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Sample Description: **SL-083-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184382
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6108 SDG#: DE061-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 19:58	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 18:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201B	01/25/2011 13:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 23:19	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201B	01/24/2011 12:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-081-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	J	6.4	7.6		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.85
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.85
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.85
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.85
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.85
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.85
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.85
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.85
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.85
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.85
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.85
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.85
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.85
06192	Methylene Chloride	75-09-2	0.98	J	0.23	3.8		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.85

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Sample Description: SL-081-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.4	U	4.4	13		19.44
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	2,090		18.8	37.5		1

This sample was used as the background sample for batch QC. The concentration of n-nitrosodimethylamine detected in the background did not compare to the MS/MSD. This sample was re-extracted outside of the method required holding time, and comparable data was not observed. The concentration of n-nitrosodimethylamine in the re-analysis was 86.53 ng/kg. The data reported here is from the in hold analysis.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1

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Sample Description: **SL-081-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1

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Sample Description: **SL-081-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1

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Sample Description: SL-081-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	14,000		1,300	3,400		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	3.9		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	170	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for

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Sample Description: SL-081-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,000		5.55	22.1		1
07914	Boron	7440-42-8	2.33	J	0.981	5.51		1
01650	Calcium	7440-70-2	3,670		6.76	22.1		1
01654	Iron	7439-89-6	23,700		5.19	22.1		1
01656	Lithium	7439-93-2	25.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,890		2.80	11.0		1
06958	Manganese	7439-96-5	307		0.0860	0.551		1
10145	Phosphorus	7723-14-0	151		0.618	11.0		1
01662	Potassium	7440-09-7	2,370		19.9	55.1		1
01667	Sodium	7440-23-5	146		41.1	110		1
07968	Strontium	7440-24-6	30.9		0.0684	0.551		1
06969	Tin	7440-31-5	2.58	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,280		0.419	1.10		1
10146	Zirconium	7440-67-7	1.75	J	0.926	5.51		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.142	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.79		0.0882	0.441		2
06126	Barium	7440-39-3	140		0.119	0.441		2
06127	Beryllium	7440-41-7	0.716		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.144		0.0441	0.110		2
06131	Chromium	7440-47-3	24.0		0.132	0.441		2
06132	Cobalt	7440-48-4	4.72		0.0221	0.110		2
06133	Copper	7440-50-8	11.2		0.0728	0.441		2
06135	Lead	7439-92-1	6.86		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.378		0.0551	0.110		2
06139	Nickel	7440-02-0	12.8		0.110	0.441		2
06141	Selenium	7782-49-2	0.149	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0333	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.277		0.0331	0.110		2
06148	Vanadium	7440-62-2	43.5		0.0243	0.110		2
06149	Zinc	7440-66-6	51.9		0.618	3.31		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.94		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-081-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011	03:20	Laura M Krieger	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110181AA	01/18/2011	14:42	Jason M Long	19.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011	14:20	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: SL-081-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101523518	01/15/2011 14:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101523518	01/15/2011 14:21	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/20/2011 11:38	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 00:33	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 05:07	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 13:43	Elizabeth J Marin	20.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:20	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/27/2011 15:54	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/20/2011 22:26	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 14:50	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 02:35	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 03:20	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 19:25	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/21/2011 16:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 16:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1

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Sample Description: SL-081-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 07:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:32	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:32	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 20:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 12:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 21:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201B	01/25/2011 14:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 23:44	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 19:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201B	01/24/2011 12:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1

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Sample Description: **SL-081-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184383
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6109 SDG#: DE061-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-081-SA5B-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184384
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6110 SDG#: DE061-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.81
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.81
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.81
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.81
06192	Methylene Chloride	75-09-2	1.2	J	0.22	3.7		0.81
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.81

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Sample Description: SL-081-SA5B-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184384
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6110 SDG#: DE061-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.81
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.81
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.81
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1

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Sample Description: SL-081-SA5B-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184384
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
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14420 Albemarle Point Place
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E6110 SDG#: DE061-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	180	J	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184384
LLI Group # 1229205
Account # 13013

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14420 Albemarle Point Place
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E6110 SDG#: DE061-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	94	J	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184384
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	8.0		0.38	1.9		1
10225	PCB-1260	11096-82-5	1.6	J	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	3.0		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	25		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184384
LLI Group # 1229205
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Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.57	22.2		1
07914	Boron	7440-42-8	2.03	J	0.986	5.54		1
01650	Calcium	7440-70-2	3,730		6.79	22.2		1
01654	Iron	7439-89-6	24,900		5.22	22.2		1
01656	Lithium	7439-93-2	28.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,040		2.82	11.1		1
06958	Manganese	7439-96-5	259		0.0864	0.554		1
10145	Phosphorus	7723-14-0	145		0.621	11.1		1
01662	Potassium	7440-09-7	1,930		19.9	55.4		1
01667	Sodium	7440-23-5	156		41.3	111		1
07968	Strontium	7440-24-6	31.6		0.0687	0.554		1
06969	Tin	7440-31-5	2.71	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,400		0.421	1.11		1
10146	Zirconium	7440-67-7	2.10	J	0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0838	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.46		0.0878	0.439		2
06126	Barium	7440-39-3	127		0.119	0.439		2
06127	Beryllium	7440-41-7	0.722		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.238		0.0439	0.110		2
06131	Chromium	7440-47-3	22.0		0.132	0.439		2
06132	Cobalt	7440-48-4	6.03		0.0220	0.110		2
06133	Copper	7440-50-8	9.24		0.0724	0.439		2
06135	Lead	7439-92-1	6.35		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.402		0.0549	0.110		2
06139	Nickel	7440-02-0	13.1		0.110	0.439		2
06141	Selenium	7782-49-2	0.0878	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0389	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.284		0.0329	0.110		2
06148	Vanadium	7440-62-2	43.7		0.0241	0.110		2
06149	Zinc	7440-66-6	51.9		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SL-081-SA5B-SB-6.0-7.0

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Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	376		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-081-SA5B-SB-6.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110172AA	01/18/2011 03:43	Laura M Krieger	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110181AA	01/18/2011 15:02	Jason M Long	19.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101523518	01/15/2011 14:28	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5B-SB-6.0-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184384
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6110 SDG#: DE061-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101523518	01/15/2011 14:24	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/20/2011 12:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 01:07	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11018SLH026	01/25/2011 09:35	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11018SLH026	01/19/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 14:19	Elizabeth J Marin	19.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101523518	01/15/2011 14:23	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/27/2011 18:01	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/20/2011 22:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110170029A	01/26/2011 15:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110170029A	01/18/2011 08:30	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 09:20	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 05:17	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 20:17	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/22/2011 03:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110175708001	01/18/2011 16:29	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1

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Sample Description: **SL-081-SA5B-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184384
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6110 SDG#: DE061-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110175708001	01/18/2011 07:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06125	Arsenic	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06126	Barium	SW-846 6020	1	110171026001D	01/21/2011 14:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06131	Chromium	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06133	Copper	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06135	Lead	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110171026001C	01/21/2011 14:35	David K Beck	2
06139	Nickel	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06141	Selenium	SW-846 6020	1	110171026001B	01/21/2011 14:35	David K Beck	2
06142	Silver	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
06145	Thallium	SW-846 6020	1	110171026001A	01/23/2011 20:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	110171026001A	01/23/2011 20:02	David K Beck	2
06149	Zinc	SW-846 6020	1	110171026001A	01/21/2011 14:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	110175711001	01/19/2011 05:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110175708001	01/17/2011 19:30	Mirit S Shenouda	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110171026001	01/17/2011 19:30	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110175711001	01/18/2011 23:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 12:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 21:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11024621201B	01/25/2011 14:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/30/2011 23:56	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 19:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11024621201B	01/24/2011 12:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-011411 Water
SSFL Area IV Collocated Soil Sampling
TB-011411

LLI Sample # WW 6184385
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 08:00

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6111 SDG#: DE061-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-011411 Water
SSFL Area IV Collocated Soil Sampling
TB-011411

LLI Sample # WW 6184385
LLI Group # 1229205
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 08:00

Submitted: 01/15/2011 09:45
Reported: 02/10/2011 11:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6111 SDG#: DE061-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110202AA	01/20/2011	14:30	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110191AA	01/19/2011	11:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110191AA	01/19/2011	11:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110202AA	01/20/2011	14:30	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11018B20A	01/19/2011	14:54	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11018B20A	01/19/2011	14:54	Butch A Sokolowski	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110172AA	Sample number(s): 6184376,6184378-6184384									
Acetone	6.7	U	6.7	8.0	ug/kg	119	114	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	101	101	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94	96	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	107	105	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96	95	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	106	102	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	70	71	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	97	96	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93	94	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	92	93	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	89	91	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	104	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	101	101	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	71	72	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	87	89	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	101	101	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	73	82	54-132	12	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	97	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	96	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	110	114	22-131	4	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	85	87	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	101	100	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103	101	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99	99	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	95	97	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	98	97	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	67	67	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	98	100	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98	98	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	100	100	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103	104	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	104	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95	96	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	94	95	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	102	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	96	97	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	87	88	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	88	77-120	0	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96	96	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	99	99	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	87	90	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	94	95	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	69	69	45-155	0	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	96	96	76-120	0	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	94	95	75-120	2	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	98	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	68	68	61-134	0	30
Methylene Chloride	0.76	J	0.24	4.0	ug/kg	98	99	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	95	96	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	99	99	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	105	105	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	91	92	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	113	108	77-120	4	30
Toluene	0.32	J	0.08	4.0	ug/kg	102	101	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	93	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	89	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	102	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	101	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99	99	80-120	0	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85	84	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	95	96	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	95	96	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93	94	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	75	78	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	101	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	92	94	80-120	2	30
Batch number: E110181AA	Sample number(s): 6184376,6184378-6184384									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	109	70-130	1	30
Batch number: E110191AA	Sample number(s): 6184385									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	108	60-132	3	30
Batch number: Y110202AA	Sample number(s): 6184385									
Acetone	6	U	6.	20	ug/l	159	164	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	99	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	100	100	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	108	106	80-120	2	30
Bromoform	1	U	1.	5	ug/l	93	93	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	112	111	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	126	126	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	101	102	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	105	104	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	106	105	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	116	115	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	101	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	110	107	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	112	113	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	101	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	101	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	63	64	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	107	110	66-120	3	30
Dibromochloromethane	1	U	1.	5	ug/l	97	98	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	100	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	106	102	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	98	98	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	104	102	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	100	79-120	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	119	119	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	97	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	104	104	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	108	107	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	104	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	97	97	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	102	103	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	101	79-120	1	30
Freon 113	2	U	2.	10	ug/l	95	95	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	82	80	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	92	92	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	115	117	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	100	99	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	104	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	103	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	103	103	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	95	100	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	106	105	80-120	0	30
Styrene	1	U	1.	5	ug/l	98	99	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	97	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	104	71-120	3	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	94	95	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	99	100	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	98	100	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	97	98	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	96	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	99	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	99	100	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	112	111	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	107	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	106	105	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	103	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	96	97	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	95	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
Batch number: 11018SLG026	Sample number(s): 6184383-6184384									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 11018SLH026	Sample number(s): 6184376-6184384									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	91		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	92		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	114		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	125		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	119		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	100		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	102		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	125		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	104		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	121		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		39-148		
Di-n-octylphthalate	7.4	J	6.0	18	ug/kg	126		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	87		56-121		
Batch number: 11019SLB026	Sample number(s): 6184376-6184384									
Aniline	170	U	170.	500	ug/kg	40		10-107		
Benzidine	1,200	U	1,200.	3,300	ug/kg	34		15-121		
Benzoic acid	170	U	170.	500	ug/kg	90		10-154		
Benzyl alcohol	170	U	170.	500	ug/kg	79		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	29		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	83		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	81		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	89		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	36*		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	90		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	91		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	71		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		68-105		
Isophorone	17	U	17.	170	ug/kg	88		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	96		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	88		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	71		35-106		
Phenol	17	U	17.	170	ug/kg	88		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11019WAD026	Sample number(s): 6184375									
N-Nitrosodimethylamine	0.736	J	0.500	1.00	ng/l	85	96	70-130	13	30
Batch number: 11018B20A	Sample number(s): 6184375,6184385									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 11019A34A	Sample number(s): 6184383-6184384									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	73	67-119	1	30
Batch number: 110180003A	Sample number(s): 6184375									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	95	100	80-120	5	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	100	80-120	6	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	97	75-125	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	97	75-125	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	98	100	72-117	2	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	93	98	80-120	5	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	95	97	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	91	95	75-121	4	30
Nitroglycerin	5.2	U	5.2	15	ug/l	88	92	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	97	74-120	4	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	93	96	69-107	3	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	96	80-120	3	30
PETN	6.0	U	6.0	18	ug/l	104	108	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	98	100	70-125	2	30
Tetryl	0.40	U	0.40	0.60	ug/l	110	110	33-147	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	100	110	53-129	10	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	96	100	76-109	4	30
Batch number: 110220004A	Sample number(s): 6184383-6184384									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	104		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	97	101	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	101	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	103		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100	U	100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	100		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	101		73-127		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800	U	800.	2,400	ug/kg	108		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	102		80-120		
Batch number: 110170001A	Sample number(s): 6184375									
17b Formaldehyde by 8315A	13	J	10.	50	ug/l	96	96	69-130	0	30
Batch number: 110190005A	Sample number(s): 6184383-6184384									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	97		80-126		
Batch number: 110170029A	Sample number(s): 6184376-6184381,6184383-6184384									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	89	75	75-125	17	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	83		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	100		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110270021A	Sample number(s): 6184382									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	101	75-125	23	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	130		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110190013A	Sample number(s): 6184375									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	104	106	60-120	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	105	107	60-120	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	108	60-120	7	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	107	107	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	82	84	60-120	2	30
Batch number: 110190022A	Sample number(s): 6184383-6184384									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		66-113		
Batch number: 110170024A	Sample number(s): 6184375									

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Diethylene glycol	10	U	10.	100	mg/l	91		78-126		
Ethylene glycol	10	U	10.	100	mg/l	86		80-124		
Propylene glycol	10	U	10.	100	mg/l	90		80-120		
Batch number: 110190002A	Sample number(s): 6184383-6184384									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	92		75-125		
Batch number: 110190020A	Sample number(s): 6184383-6184384									
Ethanol	100 U		100.	500	ug/kg	95		75-112		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	93		75-134		
Batch number: 110210007A	Sample number(s): 6184375									
Ethanol	200 U		200.	1,000	ug/l	96		66-132		
Isopropanol	200 U		200.	1,000	ug/l	96		75-125		
Methanol	200 U		200.	1,000	ug/l	96		77-137		
Batch number: 110170017A	Sample number(s): 6184375									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	86	88	75-125	2	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	91	93	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	75	78	75-125	4	20
Batch number: 110190021A	Sample number(s): 6184383-6184384									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
Batch number: 110171026001A	Sample number(s): 6184376-6184384									
Antimony	0.0594	U	0.0594	0.198	mg/kg	113		11-208		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	97		80-120		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	99		82-118		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	98		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	99		80-120		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	99		82-118		
Copper	0.107	J	0.0653	0.396	mg/kg	97		80-120		
Lead	0.0103	U	0.0103	0.198	mg/kg	97		80-120		
Nickel	0.0990	U	0.0990	0.396	mg/kg	101		80-120		
Silver	0.0119	U	0.0119	0.0990	mg/kg	99		66-134		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	102		81-119		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	98		90-110		
Zinc	0.554	U	0.554	2.97	mg/kg	99		78-122		
Batch number: 110171026001B	Sample number(s): 6184376-6184384									
Selenium	0.0396	U	0.0396	0.396	mg/kg	98		79-122		
Batch number: 110171026001C	Sample number(s): 6184376-6184384									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	100		78-122		
Batch number: 110171026001D	Sample number(s): 6184376-6184384									
Barium	0.107	U	0.107	0.396	mg/kg	97		79-121		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110175708001	Sample number(s): 6184376-6184384								
Aluminum	5.03 U	5.03	20.0	mg/kg	97		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	89		78-110		
Calcium	10.2 J	6.13	20.0	mg/kg	96		88-110		
Iron	4.79 J	4.71	20.0	mg/kg	96		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	1.38 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3 U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.18 J	1.00	10.0	mg/kg	95		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	99		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110175711001	Sample number(s): 6184376-6184384								
Mercury	0.0028 U	0.0028	0.0991	mg/kg	96		88-123		
Batch number: 11015373901A	Sample number(s): 6184375								
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	102	97	90-110	5	20
Batch number: 11020621202A	Sample number(s): 6184376-6184378								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11024621201B	Sample number(s): 6184379-6184384								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	105		85-115		
Batch number: 11025102202A	Sample number(s): 6184383-6184384								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	98		80-120		
Batch number: 11025117101B	Sample number(s): 6184375								
21b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	96	99	90-110	4	20
Batch number: 11027027201A	Sample number(s): 6184376-6184384								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11027243201A	Sample number(s): 6184376-6184384								
3a Cr VI by EPA 7199	0.26 J	0.20	1.0	mg/kg	85		80-120		
Batch number: 11033658201A	Sample number(s): 6184383-6184384								
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11018020001A	Sample number(s): 6184375								
22b pH by 9040B					100		99-101		
Batch number: 11018039402B	Sample number(s): 6184376-6184378								
22a pH by 9045C					100		95-105		
Batch number: 11018182102B	Sample number(s): 6184376-6184378								
32a OR Potential					99		98-102		
Batch number: 11021039401A	Sample number(s): 6184379-6184384								
22a pH by 9045C					100		95-105		
Batch number: 11021182101A	Sample number(s): 6184379-6184384								
32a OR Potential					99		98-102		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11018162402B	Sample number(s): 6184376-6184382								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11032162401A	Sample number(s): 6184383-6184384								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110172AA	Sample number(s): 6184376,6184378-6184384 UNSPK: P183546								
Acetone	117		15-210						
Benzene	101		55-143						
Bromobenzene	94		43-139						
Bromochloromethane	106		60-137						
Bromodichloromethane	96		53-136						
Bromoform	103		38-124						
Bromomethane	64		42-168						
2-Butanone	94		37-163						
n-Butylbenzene	87		30-146						
sec-Butylbenzene	88		33-157						
tert-Butylbenzene	87		41-152						
Carbon Tetrachloride	105		45-153						
Chlorobenzene	101		49-135						
Chloroethane	63		39-152						
2-Chloroethyl Vinyl Ether	85		32-139						
Chloroform	101		61-142						
Chloromethane	81		51-163						
2-Chlorotoluene	92		42-146						
4-Chlorotoluene	91		39-145						
1,2-Dibromo-3-chloropropane	78		30-139						
Dibromochloromethane	101		51-128						
1,2-Dibromoethane	100		54-129						
Dibromomethane	101		57-130						
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	92		34-134						
1,4-Dichlorobenzene	93		35-136						
Dichlorodifluoromethane	70		26-151						
1,1-Dichloroethane	98		63-142						
1,2-Dichloroethane	99		68-131						
1,1-Dichloroethene	103		61-149						
cis-1,2-Dichloroethene	103		60-136						
trans-1,2-Dichloroethene	103		59-142						
1,2-Dichloropropane	95		62-135						
1,3-Dichloropropane	95		58-129						
2,2-Dichloropropane	102		53-147						
1,1-Dichloropropene	97		54-145						
cis-1,3-Dichloropropene	86		51-131						
trans-1,3-Dichloropropene	87		49-129						
Ethylbenzene	95		44-141						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Freon 113	103		56-156						
Hexachlorobutadiene	84		10-155						
2-Hexanone	66		32-160						
Isopropylbenzene	93		38-144						
p-Isopropyltoluene	90		29-152						
Methyl Tertiary Butyl Ether	94		55-129						
4-Methyl-2-pentanone	64		46-139						
Methylene Chloride	94		61-141						
n-Propylbenzene	92		39-157						
Styrene	99		35-134						
1,1,1,2-Tetrachloroethane	106		52-130						
1,1,2,2-Tetrachloroethane	86		40-152						
Tetrachloroethene	107		42-149						
Toluene	100		50-146						
1,2,3-Trichlorobenzene	82		10-140						
1,2,4-Trichlorobenzene	77		10-136						
1,1,1-Trichloroethane	100		64-142						
1,1,2-Trichloroethane	102		54-139						
Trichloroethene	100		53-144						
Trichlorofluoromethane	87		47-163						
1,2,3-Trichloropropane	92		45-154						
1,2,4-Trimethylbenzene	90		37-149						
1,3,5-Trimethylbenzene	90		38-150						
Vinyl Chloride	78		50-154						
m+p-Xylene	101		44-137						
o-Xylene	91		42-137						
Batch number: 11018SLG026	Sample number(s): 6184383-6184384 UNSPK: 6184383								
N-Nitrosodimethylamine	-148*	-150*	70-130	3	30				
Batch number: 11018SLH026	Sample number(s): 6184376-6184384 UNSPK: P182855								
Acenaphthene	86	92	63-105	7	30				
Acenaphthylene	84	89	55-126	5	30				
Anthracene	88	92	46-136	4	30				
Benzo(a)anthracene	91	95	39-144	5	30				
Benzo(a)pyrene	113	119	34-156	6	30				
Benzo(b)fluoranthene	126	142	43-155	11	30				
Benzo(g,h,i)perylene	50	46	33-141	9	30				
Benzo(k)fluoranthene	131	145*	42-144	11	30				
Butylbenzylphthalate	102	108	73-140	5	30				
Di-n-butylphthalate	98	103	78-160	5	30				
Chrysene	89	92	29-156	4	30				
Dibenz(a,h)anthracene	70	66	41-130	6	30				
Diethylphthalate	93	97	87-131	5	30				
Dimethylphthalate	93	97	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	112	123	39-167	9	30				
Fluoranthene	92	98	26-166	6	30				
Fluorene	92	95	45-121	4	30				
Indeno(1,2,3-cd)pyrene	64	60	21-143	7	30				
1-Methylnaphthalene	86	92	72-123	7	30				
2-Methylnaphthalene	77	83	28-121	7	30				
Naphthalene	85	92	61-102	8	30				
N-Nitrosodimethylamine	86	92	48-113	7	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	153	177	40-192	12	30				
Phenanthrene	85	91	12-165	7	30				
Pyrene	85	91	15-153	7	30				
Batch number: 11019SLB026	Sample number(s): 6184376-6184384 UNSPK: 6184376								
Aniline	66	63	14-114	4	30				
Benzidine	15*	14*	35-141	8	30				
Benzoic acid	68	65	10-173	4	30				
Benzyl alcohol	82	83	55-123	1	30				
4-Bromophenyl-phenylether	94	98	67-129	4	30				
Carbazole	97	97	64-120	0	30				
4-Chloro-3-methylphenol	90	88	53-130	2	30				
4-Chloroaniline	62	55	23-95	12	30				
bis(2-Chloroethoxy)methane	97	97	54-117	0	30				
bis(2-Chloroethyl)ether	86	85	60-116	1	30				
bis(2-Chloroisopropyl)ether	86	89	55-142	4	30				
2-Chloronaphthalene	83	86	50-141	3	30				
2-Chlorophenol	92	93	73-121	2	30				
4-Chlorophenyl-phenylether	95	95	64-119	0	30				
Dibenzofuran	96	96	71-112	1	30				
1,2-Dichlorobenzene	82	88	66-108	7	30				
1,3-Dichlorobenzene	82	85	63-109	5	30				
1,4-Dichlorobenzene	81	86	53-113	6	30				
3,3'-Dichlorobenzidine	76	68	25-123	11	30				
2,4-Dichlorophenol	92	92	78-117	0	30				
2,4-Dimethylphenol	94	92	56-130	1	30				
3,5-Dimethylphenol	105	105	70-130	0	30				
4,6-Dinitro-2-methylphenol	79	79	10-148	0	30				
2,4-Dinitrophenol	68	66	20-143	3	30				
2,4-Dinitrotoluene	96	97	57-114	2	30				
2,6-Dinitrotoluene	96	95	69-123	0	30				
1,2-Diphenylhydrazine	104	106	71-129	3	30				
Hexachlorobenzene	97	98	61-111	1	30				
Hexachlorobutadiene	95	100	62-120	5	30				
Hexachlorocyclopentadiene	99	103	10-153	4	30				
Hexachloroethane	82	91	57-109	10	30				
Isophorone	90	91	51-118	1	30				
2-Methylphenol	87	91	47-142	5	30				
4-Methylphenol	86	86	55-126	0	30				
2-Nitroaniline	97	97	67-125	0	30				
3-Nitroaniline	94	93	59-122	1	30				
4-Nitroaniline	77	71	52-112	9	30				
Nitrobenzene	98	100	51-114	2	30				
2-Nitrophenol	91	92	74-115	1	30				
4-Nitrophenol	93	95	39-133	2	30				
N-Nitroso-di-n-propylamine	83	88	60-116	6	30				
N-Nitrosodiphenylamine	96	98	86-145	2	30				
Di-n-octylphthalate	84	85	56-126	1	30				
Pentachlorophenol	73	69	17-149	5	30				
Phenol	91	92	58-126	1	30				
1,2,4-Trichlorobenzene	92	96	72-115	4	30				
2,4,5-Trichlorophenol	98	98	34-139	0	30				
2,4,6-Trichlorophenol	94	96	49-140	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110220004A	Sample number(s): 6184383-6184384 UNSPK: 6184383								
4-Amino-2,6-Dinitrotoluene	101	100	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	100	100	80-137	0	50				
1,3-Dinitrobenzene	99	98	38-166	1	50				
2,4-Dinitrotoluene	97	96	80-131	1	50				
2,6-Dinitrotoluene	101	100	80-127	2	50				
HMX	91	90	63-128	2	50				
Nitrobenzene	96	96	80-125	0	50				
Nitroglycerin	91	90	80-120	1	50				
2-Nitrotoluene	103	100	80-122	3	50				
3-Nitrotoluene	97	97	72-119	0	50				
4-Nitrotoluene	96	97	80-125	0	50				
PETN	106	106	80-121	0	50				
RDX	95	93	75-129	2	50				
Tetryl	90	87	55-174	3	50				
1,3,5-Trinitrobenzene	101	98	82-126	2	50				
2,4,6-Trinitrotoluene	98	97	82-130	1	50				
Batch number: 110190005A	Sample number(s): 6184383-6184384 UNSPK: 6184383								
17a Formaldehyde by 8315A	26*	11*	80-120	10	50				
Batch number: 110170029A	Sample number(s): 6184376-6184381,6184383-6184384 UNSPK: P182855								
PCB-1016	102	91	29-146	12	50				
PCB-1260	126	136	39-149	7	50				
Batch number: 110270021A	Sample number(s): 6184382 UNSPK: P189705								
PCB-1016	79	89	29-146	12	50				
PCB-1260	128	135	39-149	5	50				
Batch number: 110190022A	Sample number(s): 6184383-6184384 UNSPK: 6184383								
EFH (C12-C14)	89	96	49-123	8	20				
EFH (C15-C20)	118	122	49-123	3	20				
EFH (C21-C30)	117	106	49-123	7	20				
EFH (C30 - C40)	82	118	49-123	15	20				
EFH (C8-C11)	65	68	49-123	4	20				
Batch number: 110170024A	Sample number(s): 6184375 UNSPK: P184193								
Diethylene glycol	91	95	83-130	5	20				
Ethylene glycol	81*	86*	89-125	6	20				
Propylene glycol	85*	85*	91-128	0	20				
Batch number: 110190002A	Sample number(s): 6184383-6184384 UNSPK: 6184383								
Diethylene glycol	84	84	59-109	0	20				
Ethylene glycol	88	86	63-107	2	20				
Propylene glycol	79	76	63-107	3	20				
Batch number: 110190020A	Sample number(s): 6184383-6184384 UNSPK: 6184383								
Ethanol	79	80	24-143	2	20				
Isopropanol	80	81	75-125	1	20				
Methanol	77	79	45-136	3	20				
Batch number: 110210007A	Sample number(s): 6184375 UNSPK: P183744								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethanol	96	100	69-125	4	20				
Isopropanol	96	100	75-125	4	20				
Methanol	112	108	61-131	4	20				
Batch number: 110190021A	Sample number(s): 6184383-6184384 UNSPK: 6184383								
m-Terphenyl	96	97	75-125	1	20				
o-Terphenyl	98	98	75-125	1	20				
p-Terphenyl	86	86	75-125	1	20				
Batch number: 110171026001A	Sample number(s): 6184376-6184384 UNSPK: P182702 BKG: P182702								
Antimony	37*	24*	75-125	25*	20	0.211	0.149 J	35* (1)	20
Arsenic	85	95	75-125	3	20	5.50	5.29	4	20
Beryllium	73*	90	75-125	12	20	0.641	0.647	1	20
Cadmium	85	97	75-125	17	20	0.0423 J	0.0476 J	12 (1)	20
Chromium	93	145*	75-125	18	20	18.8	20.2	7	20
Cobalt	81	94	75-125	16	20	3.46	3.77	9	20
Copper	74*	91	75-125	16	20	4.28	4.45	4	20
Lead	110	120	75-125	5	20	5.72	5.51	4	20
Nickel	82	111	75-125	17	20	9.62	9.94	3	20
Silver	97	100	75-125	6	20	0.0373 J	0.0303 J	21* (1)	20
Thallium	78	102	75-125	20	20	0.186	0.166	12 (1)	20
Vanadium	80	127*	75-125	10	20	37.5	36.9	2	20
Zinc	81	139*	75-125	13	20	36.3	40.6	11	20
Batch number: 110171026001B	Sample number(s): 6184376-6184384 UNSPK: P182702 BKG: P182702								
Selenium	79	84	75-125	9	20	0.123 J	0.0720 J	52* (1)	20
Batch number: 110171026001C	Sample number(s): 6184376-6184384 UNSPK: P182702 BKG: P182702								
Molybdenum	88	93	75-125	9	20	0.364	0.320	13 (1)	20
Batch number: 110171026001D	Sample number(s): 6184376-6184384 UNSPK: P182702 BKG: P182702								
Barium	59 (2)	150 (2)	75-125	13	20	62.6	81.7	27*	20
Batch number: 110175708001	Sample number(s): 6184376-6184384 UNSPK: P182702 BKG: P182702								
Aluminum	3461 (2)	4951 (2)	75-125	11	20	18,700	20,000	7	20
Boron	92	98	84-115	8	20	0.995 J	0.906 J	9 (1)	20
Calcium	140 (2)	253 (2)	75-125	12	20	2,920	3,200	9	20
Iron	491 (2)	1522 (2)	75-125	4	20	24,700	25,200	2	20
Lithium	100	113	82-114	11	20	30.1	31.0	3	20
Magnesium	-65 (2)	276 (2)	75-125	13	20	5,010	5,440	8	20
Manganese	-99 (2)	17 (2)	75-125	24*	20	256	259	1	20
Phosphorus	-47*	-24*	75-125	10	20	254	237	7	20
Potassium	85	118	75-125	14	20	1,490	1,700	13	20
Sodium	97	108	75-125	10	20	152	164	8 (1)	20
Strontium	101	107	75-115	6	20	21.7	23.3	7	20
Tin	83	89	80-110	9	20	2.55 J	2.46 J	3 (1)	20
Titanium	284 (2)	378 (2)	75-125	7	20	1,100	1,220	11	20
Zirconium	94	103	75-125	10	20	1.02 J	1.87 J	59* (1)	20
Batch number: 110175711001	Sample number(s): 6184376-6184384 UNSPK: P182702 BKG: P182702								
Mercury	86	79	65-135	8	20	0.0028 U	0.0028 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11020621202A	Sample number(s): 6184376-6184378 UNSPK: 6184376 BKG: 6184376								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11024621201B	Sample number(s): 6184379-6184384 UNSPK: 6184379 BKG: 6184379								
7a Perchlorate EPA 314.0	157*		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11025102202A	Sample number(s): 6184383-6184384 UNSPK: 6184383 BKG: 6184383								
21a Cyanide by 9012B	103		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11027027201A	Sample number(s): 6184376-6184384 UNSPK: 6184376 BKG: 6184376								
11a Anions by 300.0 - Fluoride	33*		80-120			2.7	3.8	34* (1)	20
Batch number: 11027243201A	Sample number(s): 6184376-6184384 UNSPK: P185293 BKG: P185293								
3a Cr VI by EPA 7199	90		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11033658201A	Sample number(s): 6184383-6184384 UNSPK: P185286 BKG: P185286								
11a Anions by 300.0 - Nitrate	77*		80-120			4.3	4.0	8 (1)	20
Batch number: 11018020001A	Sample number(s): 6184375 BKG: P184395								
22b pH by 9040B						7.7	7.6	1	1
Batch number: 11018039402B	Sample number(s): 6184376-6184378 BKG: P183550								
22a pH by 9045C						6.81	6.80	0	1
Batch number: 11018182102B	Sample number(s): 6184376-6184378 BKG: P183550								
32a OR Potential						348	348	0	6
Batch number: 11021039401A	Sample number(s): 6184379-6184384 BKG: 6184379								
22a pH by 9045C						6.47	6.46	0	1
Batch number: 11021182101A	Sample number(s): 6184379-6184384 BKG: 6184379								
32a OR Potential						373	373	0	6
Batch number: 11018162402B	Sample number(s): 6184376-6184382 BKG: 6184382								
28a Moisture Content by 160.3						10.2	11.5	12	20
Batch number: 11032162401A	Sample number(s): 6184383-6184384 BKG: P186943								
28a Moisture Content by 160.3						2.6	2.7	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110172AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6184376	111	106	95	83

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Surrogate Quality Control

6184378	116	114	93	83
6184379	113	107	94	84
6184380	113	107	95	84
6184381	113	104	95	84
6184382	113	110	94	84
6184383	115	114	94	83
6184384	115	113	94	84
Blank	108	107	95	85
LCS	103	107	101	101
LCSD	102	108	101	100
MS	103	107	101	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110181AA

	Toluene-d8
6184376	99
6184378	100
6184379	99
6184380	99
6184381	99
6184382	99
6184383	98
6184384	98
Blank	98
LCS	99
LCSD	100
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110191AA

	Toluene-d8
6184385	101
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6184385	104	100	100	101
Blank	101	98	100	101
LCS	104	102	101	102
LCSD	103	101	101	104
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C
Batch number: 11018SLG026

	N-Nitrosodimethylamine-

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Surrogate Quality Control

	d6
6184383	138
6184384	118
Blank	124
LCS	112
MS	145
MSD	152*
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11018SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6184376	89	85	89
6184377	88	82	88
6184378	90	87	94
6184379	87	81	87
6184380	88	85	92
6184381	92	87	93
6184382	90	87	93
6184383	88	86	90
6184384	91	86	79
Blank	101	76	86
LCS	106	88	85
MS	99	85	88
MSD	102	86	89
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11019SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6184376	78	84	79	75	83	89
6184377	86	88	95	84	97	92
6184378	84	85	90	77	93	91
6184379	88	89	96	82	98	93
6184380	88	89	93	82	98	94
6184381	87	89	97	82	100	96
6184382	84	83	89	77	93	87
6184383	87	87	94	82	97	94
6184384	90	89	97	82	100	93
Blank	93	96	100	91	104	102
LCS	88	88	102	85	95	92
MS	93	93	103	90	97	89
MSD	90	90	100	86	95	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 19b NDMA by 1625C
Batch number: 11019WAD026

	N-Nitrosodimethylamine-d6
6184375	134

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Surrogate Quality Control

Blank 106
LCS 106
LCSD 86

Limits: 50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11018B20A

	Trifluorotoluene-F
6184375	80
6184385	71
Blank	70
LCS	121
LCSD	126

Limits: 63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11019A34A

	Trifluorotoluene-F
6184383	76
6184384	79
Blank	86
LCS	84
LCSD	89

Limits: 61-122

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 110170001A

	Butyraldehyde
6184375	99
Blank	92
LCS	94
LCSD	93

Limits: 45-145

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110170029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6184376	97	131*
6184377	103	132*
6184378	119	126*
6184379	112	140*
6184380	122	124*
6184381	122	126*
6184383	92	141*
6184384	109	113
Blank	120	146*
LCS	94	106
LCSD	90	112
MS	107	120

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Surrogate Quality Control

MSD	88	122*
Limits:	53-139	45-120

Analysis Name: 20b Energetics by 8330A
Batch number: 110180003A

	2-Nitro-m-xylene
6184375	94
Blank	87
LCS	95
LCSD	102
Limits:	50-134

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110190005A

	Butyraldehyde
6184383	93
6184384	104
Blank	99
LCS	109
MS	113
MSD	113
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110220004A

	2-Nitro-m-xylene
6184383	117
6184384	144
Blank	124
LCS	119
LCSD	132
MS	108
MSD	109
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110270021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6184382	92	131*
Blank	89	122*
LCS	88	126*
LCSD	88	136*
MS	83	124*
MSD	91	129*
Limits:	53-139	45-120

Analysis Name: 26b Terphenyls by 8015B
Batch number: 110170017A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Surrogate Quality Control

	n-Triacontane-d62
6184375	113
Blank	113
LCS	109
LCSD	96
Limits:	50-150

Analysis Name: 27b Glycols by 8015B
Batch number: 110170024A

	Tetramethylene glycol
6184375	101
Blank	97
LCS	99
MS	98
MSD	100
Limits:	10-164

Analysis Name: 27a Glycols by 8015B
Batch number: 110190002A

	Tetramethylene glycol
6184383	86
6184384	87
Blank	101
LCS	99
MS	89
MSD	86
Limits:	29-137

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 110190013A

	Chlorobenzene	Orthoterphenyl
6184375	80	95
Blank	84	104
LCS	88	106
LCSD	90	109
Limits:	28-152	52-131

Analysis Name: 25a Alcohols by 8015B
Batch number: 110190020A

	Acetone
6184383	80
6184384	77
Blank	97
LCS	95
MS	76
MSD	81
Limits:	42-138

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229205
Reported: 02/10/11 at 11:22 AM

Surrogate Quality Control

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110190021A

	n-Triacontane-d62
6184383	98
6184384	105
Blank	106
LCS	101
MS	101
MSD	102
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110190022A

	Chlorobenzene	Orthoterphenyl
6184383	89	100
6184384	88	100
Blank	87	99
LCS	92	106
MS	92	105
MSD	94	107
Limits:	37-125	47-145

Analysis Name: 25b Alcohols by 8015B
Batch number: 110210007A

	Acetone
6184375	98
Blank	105
LCS	99
MS	96
MSD	98
Limits:	54-147

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acct# 13013 Cap# 1229205 Sample# 6184375-85

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB22-SA5B-011411	01.14.11	1130	WATER	NONE	4-1L AMBERS													X		X			X	X		X			EQUIPMENT RINSATE BLANK
EB22-SA5B-011411	01.14.11	1130	WATER	NONE	1-250 ML GLASS														X			X							EQUIPMENT RINSATE BLANK
EB22-SA5B-011411	01.14.11	1130	WATER	NaOH	1-500 ML POLY																				X				EQUIPMENT RINSATE BLANK
EB22-SA5B-011411	01.14.11	1130	WATER	NONE	4 40 ML VOAS																X						X		EQUIPMENT RINSATE BLANK
EB22-SA5B-011411	01.14.11	1130	WATER	HCL	5 40 ML VOAS													X										X	EQUIPMENT RINSATE BLANK
SL-124-SA5B-SB-4.0-5.0	01.14.11	0922	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-124-SA5B-SB-4.5	01.14.11	0918	SOIL	NONE	4 ENCORES											X	X												
SL-124-SA5B-SB-7.5-8.5	01.14.11	0926	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-126-SA5B-SB-2.0-3.0	01.14.11	1128	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-126-SA5B-SB-2.5	01.14.11	1124	SOIL	NONE	4 ENCORES											X	X												
SL-128-SA5B-SB-4.0-5.0	01.14.11	1029	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-128-SA5B-SB-4.5	01.14.11	1024	SOIL	NONE	4 ENCORES											X	X												
SL-125-SA5B-SB-4.0-5.0	01.14.11	1420	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-125-SA5B-SB-4.5	01.14.11	1416	SOIL	NONE	4 ENCORES											X	X												
SL-129-SA5B-SB-2.0-3.0	01.14.11	1318	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-129-SA5B-SB-2.5	01.14.11	1314	SOIL	NONE	4 ENCORES											X	X												
SL-083-SA5B-SB-4.0-5.0	01.14.11	1323	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-083-SA5B-SB-4.5	01.14.11	1320	SOIL	NONE	4 ENCORES											X	X												
SL-081-SA5B-SB-2.5-3.5	01.14.11	1508	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-081-SA5B-SB-3.0	01.14.11	1505	SOIL	NONE	5 ENCORES											X	X	X											
SL-081-SA5B-SB-6.0-7.0	01.14.11	1519	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-081-SA5B-SB-8.5	01.14.11	1515	SOIL	NONE	5 ENCORES											X	X	X											
TB-011411	01.14.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	1/14/2011, 17:00		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	1/15/11 0715	8700 5835 4101, ...4042	No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/15/2011
Group Number: 1229206
SDG: DX039
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-124-SA5B-SB-4.0-5.0 Soil	6184386
SL-124-SA5B-SB-7.5-8.5 Soil	6184387
SL-126-SA5B-SB-2.0-3.0 Soil	6184388
SL-128-SA5B-SB-4.0-5.0 Soil	6184389
SL-125-SA5B-SB-4.0-5.0 Soil	6184390
SL-129-SA5B-SB-2.0-3.0 Soil	6184391
SL-083-SA5B-SB-4.0-5.0 Soil	6184392
SL-081-SA5B-SB-2.5-3.5 Soil	6184393
SL-081-SA5B-SB-6.0-7.0 Soil	6184394

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184386
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3912 SDG#: DX039-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-124-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184386
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3912 SDG#: DX039-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0236	J	0.00936	1.14	1
11031	12378-PeCDD	40321-76-4	0.00939	JBQ	0.00936	5.71	1
11031	123478-HxCDD	39227-28-6	0.0137	JBQ	0.00685	5.71	1
11031	123678-HxCDD	57653-85-7	0.0272	JBQ	0.00708	5.71	1
11031	123789-HxCDD	19408-74-3	0.0366	J	0.00719	5.71	1
11031	1234678-HpCDD	35822-46-9	0.169	JBQ	0.00936	5.71	1
11031	OCDD	3268-87-9	0.689	JB	0.0131	11.4	1
11031	2378-TCDF	51207-31-9	0.0165	J	0.00525	1.14	1
11031	12378-PeCDF	57117-41-6	0.0183	JQ	0.00342	5.71	1
11031	23478-PeCDF	57117-31-4	0.0342	JB	0.00285	5.71	1
11031	123478-HxCDF	70648-26-9	0.0291	JBQ	0.00525	5.71	1
11031	123678-HxCDF	57117-44-9	0.0170	JBQ	0.00468	5.71	1
11031	123789-HxCDF	72918-21-9	0.0377	JBQ	0.00548	5.71	1
11031	234678-HxCDF	60851-34-5	0.0252	JBQ	0.00514	5.71	1
11031	1234678-HpCDF	67562-39-4	0.0840	JBQ	0.00582	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0307	JBQ	0.00788	5.71	1
11031	OCDF	39001-02-0	0.0927	JBQ	0.0119	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-124-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184386
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3912 SDG#: DX039-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-4.0-5.0

LLI Sample # SW 6184386
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:22

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3912 SDG#: DX039-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 09:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184387
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3913 SDG#: DX039-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-124-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184387
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3913 SDG#: DX039-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0101 JQ	0.00852	1.15	1
11031	12378-PeCDD	40321-76-4	0.0243 JB	0.00909	5.75	1
11031	123478-HxCDD	39227-28-6	0.00679 U	0.00679	5.75	1
11031	123678-HxCDD	57653-85-7	0.0294 JBQ	0.00713	5.75	1
11031	123789-HxCDD	19408-74-3	0.0205 J	0.00690	5.75	1
11031	1234678-HpCDD	35822-46-9	0.171 JBQ	0.00978	5.75	1
11031	OCDD	3268-87-9	0.606 JB	0.0137	11.5	1
11031	2378-TCDF	51207-31-9	0.00627 JQ	0.00483	1.15	1
11031	12378-PeCDF	57117-41-6	0.0143 JQ	0.00288	5.75	1
11031	23478-PeCDF	57117-31-4	0.0513 JBQ	0.00276	5.75	1
11031	123478-HxCDF	70648-26-9	0.0183 JBQ	0.00541	5.75	1
11031	123678-HxCDF	57117-44-9	0.0200 JBQ	0.00460	5.75	1
11031	123789-HxCDF	72918-21-9	0.0282 JBQ	0.00506	5.75	1
11031	234678-HxCDF	60851-34-5	0.0190 JBQ	0.00483	5.75	1
11031	1234678-HpCDF	67562-39-4	0.0440 JB	0.00575	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0132 JBQ	0.00748	5.75	1
11031	OCDF	39001-02-0	0.0721 JB	0.0101	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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Analysis Report

Sample Description: SL-124-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184387
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3913 SDG#: DX039-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA5B-SB-7.5-8.5

LLI Sample # SW 6184387
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 09:26

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3913 SDG#: DX039-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 10:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184388
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3914 SDG#: DX039-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184388
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3914 SDG#: DX039-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00939 U	0.00939	1.09	1
11031	12378-PeCDD	40321-76-4	0.0649 JBQ	0.0108	5.46	1
11031	123478-HxCDD	39227-28-6	0.0212 JBQ	0.00862	5.46	1
11031	123678-HxCDD	57653-85-7	0.0759 JBQ	0.00895	5.46	1
11031	123789-HxCDD	19408-74-3	0.102 JQ	0.00862	5.46	1
11031	1234678-HpCDD	35822-46-9	0.490 JB	0.00950	5.46	1
11031	OCDD	3268-87-9	4.26 JB	0.0120	10.9	1
11031	2378-TCDF	51207-31-9	0.00908 J	0.00546	1.09	1
11031	12378-PeCDF	57117-41-6	0.0399 J	0.00338	5.46	1
11031	23478-PeCDF	57117-31-4	0.0538 JBQ	0.00273	5.46	1
11031	123478-HxCDF	70648-26-9	0.0267 JBQ	0.00622	5.46	1
11031	123678-HxCDF	57117-44-9	0.0435 JBQ	0.00535	5.46	1
11031	123789-HxCDF	72918-21-9	0.0335 JBQ	0.00535	5.46	1
11031	234678-HxCDF	60851-34-5	0.0208 JB	0.00480	5.46	1
11031	1234678-HpCDF	67562-39-4	0.101 JB	0.00884	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0183 JBQ	0.0104	5.46	1
11031	OCDF	39001-02-0	0.215 JB	0.0114	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-126-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184388
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3914 SDG#: DX039-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA5B-SB-2.0-3.0

LLI Sample # SW 6184388
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 11:28

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3914 SDG#: DX039-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 11:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184389
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3915 SDG#: DX039-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184389
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3915 SDG#: DX039-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0128 J	0.00991	1.17	1
11031	12378-PeCDD	40321-76-4	0.0525 JBQ	0.0115	5.83	1
11031	123478-HxCDD	39227-28-6	0.0333 JB	0.0106	5.83	1
11031	123678-HxCDD	57653-85-7	0.0853 JBQ	0.0111	5.83	1
11031	123789-HxCDD	19408-74-3	0.118 J	0.0106	5.83	1
11031	1234678-HpCDD	35822-46-9	0.566 JB	0.0147	5.83	1
11031	OCDD	3268-87-9	4.75 JB	0.0169	11.7	1
11031	2378-TCDF	51207-31-9	0.00874 JQ	0.00723	1.17	1
11031	12378-PeCDF	57117-41-6	0.0726 J	0.00594	5.83	1
11031	23478-PeCDF	57117-31-4	0.0961 JB	0.00385	5.83	1
11031	123478-HxCDF	70648-26-9	0.0831 JB	0.0110	5.83	1
11031	123678-HxCDF	57117-44-9	0.102 JBQ	0.0120	5.83	1
11031	123789-HxCDF	72918-21-9	0.0630 JBQ	0.0113	5.83	1
11031	234678-HxCDF	60851-34-5	0.0856 JB	0.0101	5.83	1
11031	1234678-HpCDF	67562-39-4	0.340 JB	0.0149	5.83	1
11031	1234789-HpCDF	55673-89-7	0.0729 JBQ	0.0185	5.83	1
11031	OCDF	39001-02-0	0.365 JB	0.0148	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	54	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184389
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3915 SDG#: DX039-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5B-SB-4.0-5.0

LLI Sample # SW 6184389
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 10:29

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3915 SDG#: DX039-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 12:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184390
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3916 SDG#: DX039-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184390
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3916 SDG#: DX039-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00908 JQ	0.00768	1.11	1
11031	12378-PeCDD	40321-76-4	0.0404 JB	0.00902	5.57	1
11031	123478-HxCDD	39227-28-6	0.0190 JB	0.00791	5.57	1
11031	123678-HxCDD	57653-85-7	0.0403 JB	0.00802	5.57	1
11031	123789-HxCDD	19408-74-3	0.0526 J	0.00802	5.57	1
11031	1234678-HpCDD	35822-46-9	0.208 JBQ	0.0102	5.57	1
11031	OCDD	3268-87-9	0.792 JB	0.0185	11.1	1
11031	2378-TCDF	51207-31-9	0.0143 JQ	0.00490	1.11	1
11031	12378-PeCDF	57117-41-6	0.0354 JQ	0.00457	5.57	1
11031	23478-PeCDF	57117-31-4	0.0737 JBQ	0.00312	5.57	1
11031	123478-HxCDF	70648-26-9	0.0589 JB	0.0100	5.57	1
11031	123678-HxCDF	57117-44-9	0.0832 JBQ	0.0104	5.57	1
11031	123789-HxCDF	72918-21-9	0.0386 JBQ	0.00835	5.57	1
11031	234678-HxCDF	60851-34-5	0.0730 JB	0.00746	5.57	1
11031	1234678-HpCDF	67562-39-4	0.307 JB	0.0101	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0463 JB	0.0130	5.57	1
11031	OCDF	39001-02-0	0.212 JBQ	0.0146	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184390
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3916 SDG#: DX039-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5B-SB-4.0-5.0

LLI Sample # SW 6184390
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 14:20

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3916 SDG#: DX039-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 13:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-129-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184391
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3917 SDG#: DX039-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-129-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184391
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3917 SDG#: DX039-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0166 J	0.00833	1.08	1
11031	12378-PeCDD	40321-76-4	0.0703 JB	0.0115	5.41	1
11031	123478-HxCDD	39227-28-6	0.136 JB	0.0140	5.41	1
11031	123678-HxCDD	57653-85-7	0.753 JB	0.0141	5.41	1
11031	123789-HxCDD	19408-74-3	0.319 JQ	0.0142	5.41	1
11031	1234678-HpCDD	35822-46-9	26.3 B	0.0387	5.41	1
11031	OCDD	3268-87-9	271 B	0.0327	10.8	1
11031	2378-TCDF	51207-31-9	0.00671 U	0.00671	1.08	1
11031	12378-PeCDF	57117-41-6	0.0282 JQ	0.00411	5.41	1
11031	23478-PeCDF	57117-31-4	0.0667 JBQ	0.00346	5.41	1
11031	123478-HxCDF	70648-26-9	0.159 JBQ	0.0122	5.41	1
11031	123678-HxCDF	57117-44-9	0.0884 JB	0.00985	5.41	1
11031	123789-HxCDF	72918-21-9	0.0861 JBQ	0.0111	5.41	1
11031	234678-HxCDF	60851-34-5	0.157 JB	0.0102	5.41	1
11031	1234678-HpCDF	67562-39-4	4.62 JB	0.0167	5.41	1
11031	1234789-HpCDF	55673-89-7	0.312 JB	0.0209	5.41	1
11031	OCDF	39001-02-0	22.1 B	0.0175	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-129-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184391
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3917 SDG#: DX039-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-129-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SB-2.0-3.0

LLI Sample # SW 6184391
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:18

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3917 SDG#: DX039-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 14:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184392
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX039-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184392
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX039-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00924 U	0.00924	1.11	1
11031	12378-PeCDD	40321-76-4	0.0155 JBQ	0.0111	5.57	1
11031	123478-HxCDD	39227-28-6	0.0144 JBQ	0.00813	5.57	1
11031	123678-HxCDD	57653-85-7	0.0216 JBQ	0.00846	5.57	1
11031	123789-HxCDD	19408-74-3	0.0186 JQ	0.00802	5.57	1
11031	1234678-HpCDD	35822-46-9	0.269 JB	0.0109	5.57	1
11031	OCDD	3268-87-9	1.38 JB	0.0171	11.1	1
11031	2378-TCDF	51207-31-9	0.00823 JQ	0.00646	1.11	1
11031	12378-PeCDF	57117-41-6	0.0176 J	0.00479	5.57	1
11031	23478-PeCDF	57117-31-4	0.0375 JBQ	0.00356	5.57	1
11031	123478-HxCDF	70648-26-9	0.0610 JB	0.00791	5.57	1
11031	123678-HxCDF	57117-44-9	0.0440 JBQ	0.00746	5.57	1
11031	123789-HxCDF	72918-21-9	0.0537 JBQ	0.00802	5.57	1
11031	234678-HxCDF	60851-34-5	0.0600 JB	0.00768	5.57	1
11031	1234678-HpCDF	67562-39-4	0.267 JB	0.0149	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0377 JB	0.0199	5.57	1
11031	OCDF	39001-02-0	0.192 JBQ	0.0175	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184392
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX039-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-083-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5B-SB-4.0-5.0

LLI Sample # SW 6184392
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 13:23

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX039-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 15:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162402B	01/18/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-081-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184393
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3919 SDG#: DX039-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-081-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184393
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3919 SDG#: DX039-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0122	JQ	0.0100	1.12	1
11031	12378-PeCDD	40321-76-4	0.129	JB	0.0150	5.62	1
11031	123478-HxCDD	39227-28-6	0.0252	JBQ	0.00967	5.62	1
11031	123678-HxCDD	57653-85-7	0.572	JB	0.0101	5.62	1
11031	123789-HxCDD	19408-74-3	0.771	J	0.00990	5.62	1
11031	1234678-HpCDD	35822-46-9	0.907	JB	0.00900	5.62	1
11031	OCDD	3268-87-9	5.41	JB	0.0118	11.2	1
11031	2378-TCDF	51207-31-9	0.0616	J	0.0121	1.12	1
11031	12378-PeCDF	57117-41-6	0.146	J	0.00742	5.62	1
11031	23478-PeCDF	57117-31-4	0.177	JB	0.00585	5.62	1
11031	123478-HxCDF	70648-26-9	0.120	JB	0.00922	5.62	1
11031	123678-HxCDF	57117-44-9	0.158	JB	0.00866	5.62	1
11031	123789-HxCDF	72918-21-9	0.897	JB	0.00877	5.62	1
11031	234678-HxCDF	60851-34-5	0.194	JB	0.00821	5.62	1
11031	1234678-HpCDF	67562-39-4	0.561	JB	0.00855	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0730	JB	0.0106	5.62	1
11031	OCDF	39001-02-0	0.524	JB	0.0103	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	48	25 - 164
13C12-12378-PeCDD	52	25 - 181
13C12-123478-HxCDD	50	32 - 141
13C12-123678-HxCDD	51	28 - 130
13C12-123789-HxCDD	52	28 - 130
13C12-1234678-HpCDD	51	23 - 140
13C12-OCDD	44	17 - 157
13C12-2378-TCDF	46	24 - 169
13C12-12378-PeCDF	42	24 - 185
13C12-23478-PeCDF	48	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	39	28 - 136
13C12-123789-HxCDF	40	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184393
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3919 SDG#: DX039-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-2.5-3.5

LLI Sample # SW 6184393
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:08

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3919 SDG#: DX039-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 16:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA5B-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184394
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3920 SDG#: DX039-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-081-SA5B-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184394
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3920 SDG#: DX039-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00731 U	0.00731	1.14	1
11031	12378-PeCDD	40321-76-4	0.0102 JBQ	0.00856	5.71	1
11031	123478-HxCDD	39227-28-6	0.0172 JBQ	0.00845	5.71	1
11031	123678-HxCDD	57653-85-7	0.0456 JB	0.00890	5.71	1
11031	123789-HxCDD	19408-74-3	0.0835 J	0.00788	5.71	1
11031	1234678-HpCDD	35822-46-9	0.653 JB	0.00902	5.71	1
11031	OCDD	3268-87-9	5.73 JB	0.0121	11.4	1
11031	2378-TCDF	51207-31-9	0.0199 J	0.0100	1.14	1
11031	12378-PeCDF	57117-41-6	0.0280 JQ	0.00400	5.71	1
11031	23478-PeCDF	57117-31-4	0.0923 JB	0.00320	5.71	1
11031	123478-HxCDF	70648-26-9	0.0810 JBQ	0.00742	5.71	1
11031	123678-HxCDF	57117-44-9	0.0585 JBQ	0.00685	5.71	1
11031	123789-HxCDF	72918-21-9	0.0681 JBQ	0.00742	5.71	1
11031	234678-HxCDF	60851-34-5	0.0669 JBQ	0.00685	5.71	1
11031	1234678-HpCDF	67562-39-4	0.370 JB	0.0100	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0447 JB	0.0126	5.71	1
11031	OCDF	39001-02-0	0.364 JBQ	0.0107	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA5B-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184394
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3920 SDG#: DX039-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-081-SA5B-SB-6.0-7.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5B-SB-6.0-7.0

LLI Sample # SW 6184394
LLI Group # 1229206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/14/2011 15:19

Submitted: 01/15/2011 09:45
Reported: 02/27/2011 15:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3920 SDG#: DX039-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11028001	02/06/2011 17:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11028001	01/28/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229206
Reported: 02/27/11 at 03:31 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11018162402B	Sample number(s): 6184386-6184392								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11032162401A	Sample number(s): 6184393-6184394								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11028001	Sample number(s): 6184386-6184394								
2378-TCDD	0.0422 U	0.0422	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0616 J	0.0398	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0323 J	0.0260	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0423 J	0.0275	5.00	ng/kg	110		76-134		
123789-HxCDD	0.0264 U	0.0264	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.283 J	0.0460	5.00	ng/kg	108		70-140		
OCDD	1.18 J	0.0364	10.0	ng/kg	108		78-144		
2378-TCDF	0.0466 U	0.0466	1.00	ng/kg	115		75-158		
12378-PeCDF	0.0233 U	0.0233	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0690 J	0.0237	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0615 J	0.0261	5.00	ng/kg	107		72-134		
123678-HxCDF	0.0812 J	0.0238	5.00	ng/kg	109		84-130		
123789-HxCDF	0.0494 J	0.0266	5.00	ng/kg	107		78-130		
234678-HxCDF	0.129 J	0.0248	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.457 J	0.0203	5.00	ng/kg	108		82-122		
1234789-HpCDF	0.0475 J	0.0269	5.00	ng/kg	108		78-138		
OCDF	0.319 J	0.0502	10.0	ng/kg	110		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11018162402B	Sample number(s): 6184386-6184392					BKG: P184382			
28a Moisture Content by 160.3						10.2	11.5	12	20
Batch number: 11032162401A	Sample number(s): 6184393-6184394					BKG: P186943			
28a Moisture Content by 160.3						2.6	2.7	5	20
Batch number: 11028001	Sample number(s): 6184386-6184394					UNSPK: P182871			
2378-TCDD	106	101	67-158	5	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229206
Reported: 02/27/11 at 03:31 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	109	105	70-142	4	25				
123478-HxCDD	109	109	70-164	0	25				
123678-HxCDD	110	109	76-134	1	25				
123789-HxCDD	106	107	64-162	1	25				
1234678-HpCDD	108	106	70-140	1	25				
OCDD	104	103	78-144	1	25				
2378-TCDF	116	113	75-158	2	25				
12378-PeCDF	109	111	80-134	2	25				
23478-PeCDF	112	110	68-160	2	25				
123478-HxCDF	112	110	72-134	1	25				
123678-HxCDF	114	109	84-130	5	25				
123789-HxCDF	110	109	78-130	1	25				
234678-HxCDF	111	111	70-156	0	25				
1234678-HpCDF	109	110	82-122	1	25				
1234789-HpCDF	108	109	78-138	1	25				
OCDF	111	110	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11028001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6184386	69	72	57	62	59	61
6184387	81	80	60	66	63	67
6184388	75	79	52	58	62	62
6184389	67	70	54	46	56	54
6184390	84	80	51	48	66	64
6184391	75	75	50	57	58	59
6184392	83	82	62	61	64	67
6184393	48	48	38	36	39	40
6184394	77	77	57	60	61	61
Blank	77	83	85	90	88	94
MS	78	85	80	82	89	84
MSD	87	94	87	92	100	113
OPR	75	87	79	84	81	89
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6184386	64	55	47	91	76	74
6184387	67	61	54	91	86	81
6184388	60	60	54	87	83	76
6184389	58	54	47	80	74	70
6184390	60	56	45	92	86	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229206
Reported: 02/27/11 at 03:31 PM

Surrogate Quality Control

6184391	59	53	44	83	81	75
6184392	66	57	47	94	89	83
6184393	43	40	37	91	52	50
6184394	62	59	52	86	85	80
Blank	99	96	101	97	83	86
MS	95	98	92	91	86	87
MSD	105	112	104	87	98	97
OPR	93	89	85	91	91	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6184386	74	75	71	59	65	69
6184387	81	83	78	66	76	84
6184388	78	80	75	64	74	72
6184389	69	70	67	54	67	54
6184390	82	84	76	61	81	60
6184391	75	77	71	58	71	71
6184392	84	86	77	62	78	71
6184393	51	52	51	44	46	42
6184394	78	83	74	61	75	71
Blank	89	89	97	107	81	89
MS	89	87	105	104	78	81
MSD	97	103	107	108	91	78
OPR	80	80	91	92	76	90
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Qp# 1229206 Sample# 61843386-94

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A(surface soil only)	*Herbicides EPA 8151(surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260B/SIM	TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB22-SA5B-011411	01.14.11	1130	WATER	NONE	4-1L AMBERS													X		X			X	X		X			EQUIPMENT RINSATE BLANK
EB22-SA5B-011411	01.14.11	1130	WATER	NONE	1-250 ML GLASS														X			X							EQUIPMENT RINSATE BLANK
EB22-SA5B-011411	01.14.11	1130	WATER	NaOH	1-500 ML POLY																X				X				EQUIPMENT RINSATE BLANK
EB22-SA5B-011411	01.14.11	1130	WATER	NONE	4 40 ML VOAS																	X					X		EQUIPMENT RINSATE BLANK
EB22-SA5B-011411	01.14.11	1130	WATER	HCL	5 40 ML VOAS													X										X	EQUIPMENT RINSATE BLANK
SL-124-SA5B-SB-4.0-5.0	01.14.11	0922	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-124-SA5B-SB-4.5	01.14.11	0918	SOIL	NONE	4 ENCORES											X	X												
SL-124-SA5B-SB-7.5-8.5	01.14.11	0928	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-126-SA5B-SB-2.0-3.0	01.14.11	1128	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-126-SA5B-SB-2.5	01.14.11	1124	SOIL	NONE	4 ENCORES											X	X												
SL-129-SA5B-SB-4.0-5.0	01.14.11	1029	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-129-SA5B-SB-4.5	01.14.11	1024	SOIL	NONE	4 ENCORES											X	X												
SL-125-SA5B-SB-4.0-5.0	01.14.11	1420	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-125-SA5B-SB-4.5	01.14.11	1416	SOIL	NONE	4 ENCORES											X	X												
SL-129-SA5B-SB-2.0-3.0	01.14.11	1318	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-129-SA5B-SB-2.5	01.14.11	1314	SOIL	NONE	4 ENCORES											X	X												
SL-083-SA5B-SB-4.0-5.0	01.14.11	1323	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-083-SA5B-SB-4.5	01.14.11	1320	SOIL	NONE	4 ENCORES											X	X												
SL-081-SA5B-SB-2.5-3.5	01.14.11	1508	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-081-SA5B-SB-3.0	01.14.11	1505	SOIL	NONE	5 ENCORES											X	X	X											
SL-081-SA5B-SB-6.0-7.0	01.14.11	1518	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-081-SA5B-SB-6.5	01.14.11	1515	SOIL	NONE	5 ENCORES											X	X	X											
TB-011411	01.14.11	0800	WATER	HCL	4-40 mL VOA VIALS											X	X	X											

Relinquished by: [Signature]	Date/Time	Received for Laboratory by: [Signature]	
	1/14/2011, 17:00		Laboratory: Lancaster Laboratories, Inc.
Received by: [Signature]	Date/Time	Airbill No.(s)	
	1/15/2011	8700 5835 4101, ...4042	No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/18/2011
Group Number: 1229398
SDG: DE062
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-112-SA5B-SB-4.0-5.0 Soil	6185284
SL-101-SA5B-SB-4.0-5.0 Soil	6185285
SL-101-SA5B-SB-7.5-8.5 Soil	6185286
SL-078-SA5B-SB-4.0-5.0 Soil	6185287
SL-082-SA5B-SB-2.25-3.25 Soil	6185288
SL-082-SA5B-SB-7.0-8.0 Soil	6185289
SL-039-SA5B-SB-4.0-5.0 Soil	6185290
SL-039-SA5B-SB-9.0-10.0 Soil	6185291
SL-113-SA5B-SB-4.0-5.0 Soil	6185292
SL-117-SA5B-SB-4.0-5.0 Soil	6185293
TB-011711 Water	6185294

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Sample Description: SL-112-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE062-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.93
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.93
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.93
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.93
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.93
06192	Methylene Chloride	75-09-2	0.56	J	0.24	4.0		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.93

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Sample Description: SL-112-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE062-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.93
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.51
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	26.0	J	17.9	35.9		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-112-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE062-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1

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Sample Description: **SL-112-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE062-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.2 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.3
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-112-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL112 SDG#: DE062-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.94	J	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	3.3		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1

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Sample Description: SL-112-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

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14420 Albemarle Point Place
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SL112 SDG#: DE062-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		5.31	21.1		1
07914	Boron	7440-42-8	0.939	U	0.939	5.28		1
01650	Calcium	7440-70-2	3,480		6.47	21.1		1
01654	Iron	7439-89-6	23,800		4.97	21.1		1
01656	Lithium	7439-93-2	28.7		0.23	2.1		1
01657	Magnesium	7439-95-4	5,160		2.68	10.6		1
06958	Manganese	7439-96-5	279		0.0823	0.528		1
10145	Phosphorus	7723-14-0	214		0.591	10.6		1
01662	Potassium	7440-09-7	2,060		19.0	52.8		1
01667	Sodium	7440-23-5	123		39.4	106		1
07968	Strontium	7440-24-6	21.3		0.0654	0.528		1
06969	Tin	7440-31-5	2.55	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,300		0.401	1.06		1
10146	Zirconium	7440-67-7	2.71	J	0.886	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.265		0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.86		0.0853	0.426		2
06126	Barium	7440-39-3	84.4		0.115	0.426		2
06127	Beryllium	7440-41-7	0.697		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0538	J	0.0426	0.107		2
06131	Chromium	7440-47-3	23.1		0.128	0.426		2
06132	Cobalt	7440-48-4	10.0		0.0213	0.107		2
06133	Copper	7440-50-8	10.2		0.0703	0.426		2
06135	Lead	7439-92-1	7.02		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.476		0.0533	0.107		2
06139	Nickel	7440-02-0	16.0		0.107	0.426		2
06141	Selenium	7782-49-2	0.179	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0168	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.320		0.0320	0.107		2
06148	Vanadium	7440-62-2	42.1		0.0234	0.107		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-112-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE062-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	52.5		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	379		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-112-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-112-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE062-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/19/2011 20:47	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 17:06	Jason M Long	21.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 14:49	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 14:50	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/20/2011 12:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 01:41	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 02:23	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 15:28	Elizabeth J Marin	25.3
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 14:54	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/27/2011 18:44	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/20/2011 23:04	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 16:54	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011 01:40	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011 01:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011 17:50	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110200023A	01/21/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 03:50	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 05:32	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 20:34	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/21/2011 19:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1

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Sample Description: SL-112-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE062-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 21:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 22:48	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 21:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 21:38	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 21:38	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 21:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:00	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201A	01/29/2011 13:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 22:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 11:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/31/2011 00:09	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 19:56	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-112-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185284
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE062-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201A	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	0.43	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.37
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	73.1		19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.7	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.2 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.23
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1

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Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.77	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	2.8		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1

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Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		5.59	22.2		1
07914	Boron	7440-42-8	0.989	U	0.989	5.55		1
01650	Calcium	7440-70-2	3,860		6.81	22.2		1
01654	Iron	7439-89-6	25,300		5.23	22.2		1
01656	Lithium	7439-93-2	28.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,940		2.82	11.1		1
06958	Manganese	7439-96-5	217		0.0866	0.555		1
10145	Phosphorus	7723-14-0	110		0.622	11.1		1
01662	Potassium	7440-09-7	1,640		20.0	55.5		1
01667	Sodium	7440-23-5	697		41.4	111		1
07968	Strontium	7440-24-6	30.2		0.0689	0.555		1
06969	Tin	7440-31-5	2.58	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,470		0.422	1.11		1
10146	Zirconium	7440-67-7	3.15	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.14		0.0897	0.449		2
06126	Barium	7440-39-3	123		0.121	0.449		2
06127	Beryllium	7440-41-7	0.743		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.108	J	0.0449	0.112		2
06131	Chromium	7440-47-3	22.2		0.135	0.449		2
06132	Cobalt	7440-48-4	4.93		0.0224	0.112		2
06133	Copper	7440-50-8	8.46		0.0740	0.449		2
06135	Lead	7439-92-1	5.99		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.632		0.0561	0.112		2
06139	Nickel	7440-02-0	16.0		0.112	0.449		2
06141	Selenium	7782-49-2	0.0491	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0682	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.286		0.0337	0.112		2
06148	Vanadium	7440-62-2	43.4		0.0247	0.112		2
06149	Zinc	7440-66-6	51.3		0.628	3.37		2

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Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

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S1014 SDG#: DE062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	28.6		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.4		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	389		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.45		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-101-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/19/2011 21:09	Laura M Krieger	0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 17:26	Jason M Long	21.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:54	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 15:55	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/28/2011 09:50	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 02:16	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 03:58	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 16:04	Elizabeth J Marin	23.23
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:55	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/27/2011 19:26	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/20/2011 23:14	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011 03:50	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011 03:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011 17:50	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 04:40	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 05:47	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 20:51	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/21/2011 20:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 21:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 21:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 21:57	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 21:57	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 21:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 13:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 22:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 12:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/31/2011 00:21	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 19:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1

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Sample Description: **SL-101-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185285
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1014 SDG#: DE062-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1017 SDG#: DE062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.92
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.92
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.92
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.92
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.92
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.92
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.92
06192	Methylene Chloride	75-09-2	0.46	J	0.24	4.0		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.92

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Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1017 SDG#: DE062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.92
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.24
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.7	J	18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1017 SDG#: DE062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.52	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.76	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.90	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.86	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1

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Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1017 SDG#: DE062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.66	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	J	6.5	20		1
10138	Fluoranthene	206-44-0	0.78	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.88	J	0.73	1.8		1
10138	Pyrene	129-00-0	0.80	J	0.73	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.2 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1017 SDG#: DE062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	150	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1

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Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1017 SDG#: DE062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.33	21.2		1
07914	Boron	7440-42-8	0.942	U	0.942	5.29		1
01650	Calcium	7440-70-2	2,710		6.49	21.2		1
01654	Iron	7439-89-6	21,500		4.99	21.2		1
01656	Lithium	7439-93-2	27.4		0.23	2.1		1
01657	Magnesium	7439-95-4	4,630		2.69	10.6		1
06958	Manganese	7439-96-5	321		0.0826	0.529		1
10145	Phosphorus	7723-14-0	253		0.593	10.6		1
01662	Potassium	7440-09-7	1,700		19.1	52.9		1
01667	Sodium	7440-23-5	351		39.5	106		1
07968	Strontium	7440-24-6	18.3		0.0656	0.529		1
06969	Tin	7440-31-5	2.40	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,220		0.402	1.06		1
10146	Zirconium	7440-67-7	1.67	J	0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.212	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.71		0.0864	0.432		2
06126	Barium	7440-39-3	76.4		0.117	0.432		2
06127	Beryllium	7440-41-7	0.536		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0963	J	0.0432	0.108		2
06131	Chromium	7440-47-3	19.3		0.130	0.432		2
06132	Cobalt	7440-48-4	6.34		0.0216	0.108		2
06133	Copper	7440-50-8	8.07		0.0713	0.432		2
06135	Lead	7439-92-1	5.55		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.517		0.0540	0.108		2
06139	Nickel	7440-02-0	14.8		0.108	0.432		2
06141	Selenium	7782-49-2	0.0907	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0130	U	0.0130	0.108		2
06145	Thallium	7440-28-0	0.209		0.0324	0.108		2
06148	Vanadium	7440-62-2	38.0		0.0238	0.108		2
06149	Zinc	7440-66-6	50.1		0.605	3.24		2

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Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S1017 SDG#: DE062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.7		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	380		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-101-SA5B-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/19/2011 21:32	Laura M Krieger	0.92

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Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
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S1017 SDG#: DE062-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 17:46	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:43	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 15:44	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/20/2011 13:19	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 02:50	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 04:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 16:41	Elizabeth J Marin	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:43	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 06:22	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/20/2011 23:23	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011 04:09	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011 03:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011 17:50	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 05:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 06:01	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 21:08	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/21/2011 21:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 21:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1017 SDG#: DE062-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 22:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 22:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 22:00	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 22:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 14:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 20:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 12:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11027243201A	01/31/2011 00:27	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 19:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-101-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185286
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1017 SDG#: DE062-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11021182101A	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401A	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-078-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185287
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE062-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.8
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.8
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.8
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.8
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.8
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.8
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.8
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.8
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.8
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.8
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.8
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.8
06192	Methylene Chloride	75-09-2	0.89	J	0.23	3.8		0.8
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.8

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-078-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185287
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE062-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.8
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.8
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.8		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.8
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.8
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.8

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.41
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1

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Sample Description: SL-078-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185287
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE062-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.88	J	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.53	J	0.39	2.0		1
10138	Anthracene	120-12-7	2.8		0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	3.9		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	4.5		0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	6.0		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	3.9		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	5.2		0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	4.1		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	3.4		0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-078-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185287
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE062-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	7.1	21		1
10138	Fluoranthene	206-44-0	3.8		0.79	2.0		1
10138	Fluorene	86-73-7	1.8	J	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4		0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	3.2		0.79	2.0		1
10138	Pyrene	129-00-0	3.2		0.79	2.0		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.2 ug/kg. The blank value was not subtracted from the analytical result.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	2.4		0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		5.89	23.4		1
07914	Boron	7440-42-8	1.04	U	1.04	5.85		1
01650	Calcium	7440-70-2	3,530		7.17	23.4		1
01654	Iron	7439-89-6	27,300		5.51	23.4		1
01656	Lithium	7439-93-2	49.1		0.26	2.3		1
01657	Magnesium	7439-95-4	6,190		2.97	11.7		1
06958	Manganese	7439-96-5	199		0.0913	0.585		1
10145	Phosphorus	7723-14-0	144		0.655	11.7		1
01662	Potassium	7440-09-7	1,460		21.1	58.5		1
01667	Sodium	7440-23-5	134		43.7	117		1
07968	Strontium	7440-24-6	29.7		0.0726	0.585		1
06969	Tin	7440-31-5	2.92	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,600		0.445	1.17		1
10146	Zirconium	7440-67-7	2.53	J	0.983	5.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-078-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185287
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE062-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.207 J	0.0702	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.40	0.0936	0.468		2
06126	Barium	7440-39-3	119	0.126	0.468		2
06127	Beryllium	7440-41-7	0.745	0.0187	0.117		2
06128	Cadmium	7440-43-9	0.164	0.0468	0.117		2
06131	Chromium	7440-47-3	25.5	0.140	0.468		2
06132	Cobalt	7440-48-4	8.30	0.0234	0.117		2
06133	Copper	7440-50-8	11.9	0.0772	0.468		2
06135	Lead	7439-92-1	7.71	0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.612	0.0585	0.117		2
06139	Nickel	7440-02-0	19.1	0.117	0.468		2
06141	Selenium	7782-49-2	0.0590 J	0.0468	0.468		2
06142	Silver	7440-22-4	0.107 J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.252	0.0351	0.117		2
06148	Vanadium	7440-62-2	49.2	0.0257	0.117		2
06149	Zinc	7440-66-6	64.8	0.655	3.51		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	306	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.87	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-078-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185287
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE062-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-078-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/19/2011 21:54	Laura M Krieger	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 18:06	Jason M Long	19.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:33	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 15:34	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 09:45	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 05:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011 04:27	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011 04:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011 17:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 21:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 22:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-078-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185287
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE062-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 22:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 22:10	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 22:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 18:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 13:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/31/2011 00:46	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA5B-SB-2.25-3.25 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	120		7.8	9.3		1
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1
06192	2-Butanone	78-93-3	19		1.4	9.3		1
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		1
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1
06192	Methylene Chloride	75-09-2	0.72	J	0.28	4.6		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA5B-SB-2.25-3.25 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1
06192	Toluene	108-88-3	0.22	J	0.09	4.6		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		24.37
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	96.8	U	96.8	194		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-082-SA5B-SB-2.25-3.25 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1

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Sample Description: SL-082-SA5B-SB-2.25-3.25 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.89	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1

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Sample Description: SL-082-SA5B-SB-2.25-3.25 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.98	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	7.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	28		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	490	J	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1

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Sample Description: SL-082-SA5B-SB-2.25-3.25 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		5.78	23.0		1
07914	Boron	7440-42-8	1.02	U	1.02	5.75		1
01650	Calcium	7440-70-2	2,160		7.05	23.0		1
01654	Iron	7439-89-6	20,300		5.42	23.0		1
01656	Lithium	7439-93-2	19.0		0.25	2.3		1
01657	Magnesium	7439-95-4	3,540		2.92	11.5		1
06958	Manganese	7439-96-5	276		0.0897	0.575		1
10145	Phosphorus	7723-14-0	277		0.644	11.5		1
01662	Potassium	7440-09-7	2,770		20.7	57.5		1
01667	Sodium	7440-23-5	148		42.9	115		1
07968	Strontium	7440-24-6	21.8		0.0713	0.575		1
06969	Tin	7440-31-5	2.34	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,290		0.437	1.15		1
10146	Zirconium	7440-67-7	2.98	J	0.966	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.131	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.11		0.0920	0.460		2
06126	Barium	7440-39-3	115		0.124	0.460		2
06127	Beryllium	7440-41-7	0.613		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.184		0.0460	0.115		2
06131	Chromium	7440-47-3	17.3		0.138	0.460		2
06132	Cobalt	7440-48-4	5.91		0.0230	0.115		2
06133	Copper	7440-50-8	10.8		0.0759	0.460		2
06135	Lead	7439-92-1	6.34		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.572		0.0575	0.115		2
06139	Nickel	7440-02-0	12.7		0.115	0.460		2
06141	Selenium	7782-49-2	0.139	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0305	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.246		0.0345	0.115		2
06148	Vanadium	7440-62-2	33.7		0.0253	0.115		2
06149	Zinc	7440-66-6	47.3		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA5B-SB-2.25-3.25 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.8		0.93	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	371		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	13.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-082-SA5B-SB-2.75.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/19/2011 22:17	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 18:26	Jason M Long	24.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:46	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-082-SA5B-SB-2.25-3.25 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 15:47	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/28/2011 11:13	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 10:19	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 05:35	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 17:17	Elizabeth J Marin	23.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:47	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 07:04	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/20/2011 23:33	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110290005A	02/03/2011 03:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110290005A	01/31/2011 05:00	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 05:29	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 06:16	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 21:26	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/21/2011 22:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 21:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1

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Sample Description: **SL-082-SA5B-SB-2.25-3.25 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 22:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 22:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 22:13	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 22:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 14:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 22:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 13:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/31/2011 00:59	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 20:00	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1

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Sample Description: **SL-082-SA5B-SB-2.25-3.25 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185288
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0822 SDG#: DE062-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0827 SDG#: DE062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.88
06192	Methylene Chloride	75-09-2	1.7	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: SL-082-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0827 SDG#: DE062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		22.89
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-082-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0827 SDG#: DE062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Sample Description: **SL-082-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0827 SDG#: DE062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	1.9	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	2.7		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	3.4		0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1

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Sample Description: SL-082-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0827 SDG#: DE062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.61	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C21-C30)	n.a.	22		2.3	6.9		5
10199	EFH (C30 - C40)	n.a.	59		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	270	J	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample had a reportable result for diethylene glycol. Since this is indicative of laboratory contamination, the sample was reextracted to confirm							

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Sample Description: SL-082-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0827 SDG#: DE062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	results. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls		**SW-846 8015B**	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals		**SW-846 6010B**	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,700		5.63	22.4		1
07914	Boron	7440-42-8	0.997	U	0.997	5.60		1
01650	Calcium	7440-70-2	3,040		6.86	22.4		1
01654	Iron	7439-89-6	26,000		5.27	22.4		1
01656	Lithium	7439-93-2	44.5		0.25	2.2		1
01657	Magnesium	7439-95-4	5,030		2.84	11.2		1
06958	Manganese	7439-96-5	887		0.0873	0.560		1
10145	Phosphorus	7723-14-0	197		0.627	11.2		1
01662	Potassium	7440-09-7	1,630		20.2	56.0		1
01667	Sodium	7440-23-5	178		41.8	112		1
07968	Strontium	7440-24-6	23.9		0.0694	0.560		1
06969	Tin	7440-31-5	2.69	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,320		0.426	1.12		1
10146	Zirconium	7440-67-7	2.03	J	0.941	5.60		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.165	J	0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.51		0.0905	0.452		2
06126	Barium	7440-39-3	91.8		0.122	0.452		2
06127	Beryllium	7440-41-7	0.557		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.174		0.0452	0.113		2
06131	Chromium	7440-47-3	19.6		0.136	0.452		2
06132	Cobalt	7440-48-4	4.61		0.0226	0.113		2
06133	Copper	7440-50-8	8.55		0.0746	0.452		2
06135	Lead	7439-92-1	5.10		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.546		0.0565	0.113		2
06139	Nickel	7440-02-0	13.4		0.113	0.452		2
06141	Selenium	7782-49-2	0.0535	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0497	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.244		0.0339	0.113		2
06148	Vanadium	7440-62-2	35.6		0.0249	0.113		2
06149	Zinc	7440-66-6	57.9		0.633	3.39		2

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Sample Description: **SL-082-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S0827 SDG#: DE062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	350		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-082-SA5B-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/19/2011 22:40	Laura M Krieger	0.88

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Sample Description: **SL-082-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

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Chantilly VA 20151

S0827 SDG#: DE062-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 18:46	Jason M Long	22.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:36	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 15:38	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/20/2011 14:10	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 10:53	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 06:07	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 17:53	Elizabeth J Marin	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:37	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 07:47	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/20/2011 23:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011 05:04	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011 04:42	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011 17:50	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 08:31	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 06:31	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 13:44	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/22/2011 05:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 22:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1

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Sample Description: SL-082-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0827 SDG#: DE062-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:35	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 22:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 22:16	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 22:16	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 22:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 15:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 22:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 14:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11027243201A	01/31/2011 01:11	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 20:03	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1

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Sample Description: **SL-082-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185289
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0827 SDG#: DE062-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185290
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0394 SDG#: DE062-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	37		6.6	7.8		0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.88
06192	2-Butanone	78-93-3	6.3	J	1.2	7.8		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.88
06192	Methylene Chloride	75-09-2	0.40	J	0.24	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.88

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Sample Description: SL-039-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185290
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0394 SDG#: DE062-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.88
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.88

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.05
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-039-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185290
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0394 SDG#: DE062-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	740	U	740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185290
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0394 SDG#: DE062-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.8	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.2 ug/kg. The blank value was not subtracted from the analytical result.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		5.53	22.0		1
07914	Boron	7440-42-8	0.979	U	0.979	5.50		1
01650	Calcium	7440-70-2	1,950		6.74	22.0		1
01654	Iron	7439-89-6	19,900		5.18	22.0		1
01656	Lithium	7439-93-2	17.4		0.24	2.2		1
01657	Magnesium	7439-95-4	3,790		2.79	11.0		1
06958	Manganese	7439-96-5	223		0.0858	0.550		1
10145	Phosphorus	7723-14-0	184		0.616	11.0		1
01662	Potassium	7440-09-7	2,150		19.8	55.0		1
01667	Sodium	7440-23-5	184		41.0	110		1
07968	Strontium	7440-24-6	20.3		0.0682	0.550		1
06969	Tin	7440-31-5	2.32	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,310		0.418	1.10		1
10146	Zirconium	7440-67-7	2.30	J	0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-039-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185290
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0394 SDG#: DE062-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.233	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.50	0.0871	0.436		2
06126	Barium	7440-39-3	86.8	0.118	0.436		2
06127	Beryllium	7440-41-7	0.648	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0603 J	0.0436	0.109		2
06131	Chromium	7440-47-3	19.1	0.131	0.436		2
06132	Cobalt	7440-48-4	5.56	0.0218	0.109		2
06133	Copper	7440-50-8	7.61	0.0719	0.436		2
06135	Lead	7439-92-1	5.98	0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.446	0.0545	0.109		2
06139	Nickel	7440-02-0	10.2	0.109	0.436		2
06141	Selenium	7782-49-2	0.0793 J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0296 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.247	0.0327	0.109		2
06148	Vanadium	7440-62-2	35.8	0.0240	0.109		2
06149	Zinc	7440-66-6	41.8	0.610	3.27		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	303	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.49	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-039-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185290
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0394 SDG#: DE062-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-039-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/19/2011 23:25	Laura M Krieger	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 19:06	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:40	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 15:40	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 11:27	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 06:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011 05:23	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011 05:01	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011 17:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 22:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:39	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 22:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-039-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185290
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0394 SDG#: DE062-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 22:19	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 22:19	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 22:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 18:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 14:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11027243201A	01/31/2011 01:17	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185291
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0399 SDG#: DE062-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-039-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185291
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0399 SDG#: DE062-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.2 ug/kg. The blank value was not subtracted from the analytical result.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1

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Sample Description: **SL-039-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185291
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0399 SDG#: DE062-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,900		5.95	23.6		1
07914	Boron	7440-42-8	1.05	U	1.05	5.91		1
01650	Calcium	7440-70-2	17,000		7.25	23.6		1
01654	Iron	7439-89-6	36,400		27.8	118		5
01656	Lithium	7439-93-2	28.1		0.26	2.4		1
01657	Magnesium	7439-95-4	7,610		3.00	11.8		1
06958	Manganese	7439-96-5	446		0.0922	0.591		1
10145	Phosphorus	7723-14-0	390		0.662	11.8		1
01662	Potassium	7440-09-7	4,120		21.3	59.1		1
01667	Sodium	7440-23-5	235		44.1	118		1
07968	Strontium	7440-24-6	38.2		0.0733	0.591		1
06969	Tin	7440-31-5	2.60	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,530		0.449	1.18		1
10146	Zirconium	7440-67-7	5.52	J	0.993	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.344		0.0702	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.95		0.0936	0.468		2
06126	Barium	7440-39-3	146		0.126	0.468		2
06127	Beryllium	7440-41-7	0.878		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.348		0.0468	0.117		2
06131	Chromium	7440-47-3	36.0		0.140	0.468		2
06132	Cobalt	7440-48-4	9.11		0.0234	0.117		2
06133	Copper	7440-50-8	18.8		0.0772	0.468		2
06135	Lead	7439-92-1	10.4		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.568		0.0585	0.117		2
06139	Nickel	7440-02-0	23.6		0.117	0.468		2
06141	Selenium	7782-49-2	0.142	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0529	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.333		0.0351	0.117		2
06148	Vanadium	7440-62-2	63.7		0.0257	0.117		2
06149	Zinc	7440-66-6	69.5		0.655	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0047	J	0.0034	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.95	1.2		1

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Sample Description: **SL-039-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185291
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0399 SDG#: DE062-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	308		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011	12:02	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011	07:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011	18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011	01:55	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011	05:42	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011	05:19	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011	17:50	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011	23:43	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011	22:08	John P Hook	1

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Sample Description: **SL-039-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185291
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

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S0399 SDG#: DE062-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110205708002	01/24/2011 22:12	John P Hook	5
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:43	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 22:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 22:22	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 22:22	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 22:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 19:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 14:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/31/2011 01:36	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1

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Sample Description: **SL-039-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185291
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0399 SDG#: DE062-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.1		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.9
06192	Methylene Chloride	75-09-2	0.43	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1

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Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.56	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.2 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.74
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL113 SDG#: DE062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	7.5		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	22		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	280	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1

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Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.58	22.2		1
07914	Boron	7440-42-8	0.987	U	0.987	5.54		1
01650	Calcium	7440-70-2	3,450		6.80	22.2		1
01654	Iron	7439-89-6	20,600		5.22	22.2		1
01656	Lithium	7439-93-2	20.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,740		2.82	11.1		1
06958	Manganese	7439-96-5	279		0.0865	0.554		1
10145	Phosphorus	7723-14-0	389		0.621	11.1		1
01662	Potassium	7440-09-7	2,290		20.0	55.4		1
01667	Sodium	7440-23-5	108	J	41.4	111		1
07968	Strontium	7440-24-6	16.8		0.0687	0.554		1
06969	Tin	7440-31-5	2.39	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,290		0.421	1.11		1
10146	Zirconium	7440-67-7	1.86	J	0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.50		0.0878	0.439		2
06126	Barium	7440-39-3	108		0.119	0.439		2
06127	Beryllium	7440-41-7	0.478		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.136		0.0439	0.110		2
06131	Chromium	7440-47-3	19.0		0.132	0.439		2
06132	Cobalt	7440-48-4	6.12		0.0220	0.110		2
06133	Copper	7440-50-8	12.2		0.0725	0.439		2
06135	Lead	7439-92-1	5.05		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.489		0.0549	0.110		2
06139	Nickel	7440-02-0	13.8		0.110	0.439		2
06141	Selenium	7782-49-2	0.0724	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0262	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.244		0.0329	0.110		2
06148	Vanadium	7440-62-2	38.1		0.0242	0.110		2
06149	Zinc	7440-66-6	53.8		0.615	3.29		2

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Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	306		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-113-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/19/2011 23:47	Laura M Krieger	0.9

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Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 19:25	Jason M Long	23.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:51	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 15:52	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/20/2011 14:27	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 12:36	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 15:38	Dale R Stoneroad	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 18:30	Elizabeth J Marin	21.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 15:51	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 08:29	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/21/2011 00:01	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011 06:00	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011 05:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011 17:50	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 07:34	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 06:45	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 22:17	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/22/2011 01:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 22:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1

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Sample Description: SL-113-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:47	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 22:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 22:25	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 22:25	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 22:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 15:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 23:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 15:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11027243201A	01/31/2011 01:54	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 20:04	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1

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Sample Description: **SL-113-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185292
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL113 SDG#: DE062-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S-117 SDG#: DE062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.95
06192	Methylene Chloride	75-09-2	0.78	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.95

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Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S-117 SDG#: DE062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	18		25.83
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S-117 SDG#: DE062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.90	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1

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Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S-117 SDG#: DE062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.2 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1

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Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S-117 SDG#: DE062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.79	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.4		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	6.1		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	250	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1

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Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

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CDM Federal Programs Corp.
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S-117 SDG#: DE062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.57	22.2		1
07914	Boron	7440-42-8	0.986	U	0.986	5.54		1
01650	Calcium	7440-70-2	4,120		6.79	22.2		1
01654	Iron	7439-89-6	22,800		5.22	22.2		1
01656	Lithium	7439-93-2	28.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,270		2.81	11.1		1
06958	Manganese	7439-96-5	346		0.0864	0.554		1
10145	Phosphorus	7723-14-0	471		0.620	11.1		1
01662	Potassium	7440-09-7	2,560		19.9	55.4		1
01667	Sodium	7440-23-5	83.8	J	41.3	111		1
07968	Strontium	7440-24-6	17.2		0.0687	0.554		1
06969	Tin	7440-31-5	2.62	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,330		0.421	1.11		1
10146	Zirconium	7440-67-7	2.31	J	0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.171	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.39		0.0886	0.443		2
06126	Barium	7440-39-3	94.8		0.120	0.443		2
06127	Beryllium	7440-41-7	0.661		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.144		0.0443	0.111		2
06131	Chromium	7440-47-3	23.0		0.133	0.443		2
06132	Cobalt	7440-48-4	6.78		0.0222	0.111		2
06133	Copper	7440-50-8	14.8		0.0731	0.443		2
06135	Lead	7439-92-1	7.42		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.501		0.0554	0.111		2
06139	Nickel	7440-02-0	17.8		0.111	0.443		2
06141	Selenium	7782-49-2	0.0961	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0451	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.285		0.0332	0.111		2
06148	Vanadium	7440-62-2	40.5		0.0244	0.111		2
06149	Zinc	7440-66-6	69.6		0.620	3.32		2

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Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S-117 SDG#: DE062-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0043	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	298		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-117-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011 00:10	Laura M Krieger	0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S-117 SDG#: DE062-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 19:45	Jason M Long	25.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 14:53	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101823535	01/18/2011 16:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101823535	01/18/2011 16:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101823535	01/18/2011 14:53	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11018SLG026	01/20/2011 14:44	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11019SLB026	01/24/2011 13:10	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLA026	01/26/2011 16:10	Dale R Stoneroad	1
11630	NDMA Soil Microwave	SW-846 3546	1	11018SLG026	01/19/2011 03:00	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLA026	01/21/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11019SLB026	01/20/2011 01:55	David V Hershey Jr	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34A	01/19/2011 19:06	Elizabeth J Marin	24.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101823535	01/18/2011 14:50	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 09:12	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/21/2011 00:11	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/27/2011 06:19	Lindsey K Lafferty	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110200018A	01/28/2011 05:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110200018A	01/20/2011 17:50	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 05:54	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 07:00	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 22:35	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/21/2011 22:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110205708002	01/24/2011 22:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1

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Sample Description: SL-117-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S-117 SDG#: DE062-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110205708002	01/21/2011 23:51	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06126	Barium	SW-846 6020	1	110201026001D	01/26/2011 22:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06131	Chromium	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06133	Copper	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06135	Lead	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110201026001C	01/26/2011 22:29	David K Beck	2
06139	Nickel	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06141	Selenium	SW-846 6020	1	110201026001B	01/26/2011 22:29	David K Beck	2
06142	Silver	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06145	Thallium	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
06149	Zinc	SW-846 6020	1	110201026001A	01/26/2011 22:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	110205711002	01/21/2011 19:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110205708002	01/20/2011 20:02	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110201026001	01/20/2011 20:13	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110205711002	01/20/2011 22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11027027201B	01/29/2011 15:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11033658201A	02/03/2011 23:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621201A	01/28/2011 15:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11027243201A	01/31/2011 02:13	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11025102202A	01/25/2011 20:06	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11027027201B	01/27/2011 21:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11033658201A	02/02/2011 22:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621201A	01/26/2011 11:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11025102202A	01/25/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1

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Sample Description: **SL-117-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185293
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S-117 SDG#: DE062-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11027243201A	01/27/2011 10:35	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-011711 Water
SSFL Area IV Collocated Soil Sampling
TB-011711

LLI Sample # WW 6185294
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 08:00

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB117 SDG#: DE062-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-011711 Water
SSFL Area IV Collocated Soil Sampling
TB-011711

LLI Sample # WW 6185294
LLI Group # 1229398
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 08:00

Submitted: 01/18/2011 11:45
Reported: 02/09/2011 11:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB117 SDG#: DE062-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	80		20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110202AA	01/20/2011	14:51	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110191AA	01/19/2011	11:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110191AA	01/19/2011	11:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110202AA	01/20/2011	14:51	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11018B20A	01/19/2011	15:37	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11018B20A	01/19/2011	15:37	Butch A Sokolowski	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110191AA	Sample number(s): 6185284-6185290,6185292-6185293									
Acetone	6.7	U	6.7	8.0	ug/kg	106	104	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	96	96	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	90	90	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103	102	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91	89	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	97	94	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	65	67	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	86	85	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	87	88	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	85	87	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	83	85	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99	98	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96	95	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	66	68	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	78	80	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	97	96	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	64	68	54-132	5	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	90	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	90	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	102	104	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	76	78	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	94	93	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	93	92	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96	94	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	93	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	91	90	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92	92	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	56	57	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	92	93	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	91	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	95	94	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	97	97	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101	100	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89	89	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	86	87	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98	97	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	90	90	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	80	80	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	79	80	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	90	90	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	95	95	61-126	1	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	91	93	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91	91	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	60	59	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88	89	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	87	88	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90	90	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	61	60*	61-134	3	30
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	90	91	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	89	89	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	94	93	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	97	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	83	81	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105	102	77-120	2	30
Toluene	0.21	J	0.08	4.0	ug/kg	94	95	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87	88	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	80	82	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	96	94	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	95	93	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	94	94	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	83	81	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	85	86	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	89	89	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	88	89	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	68	71	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96	94	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	86	86	80-120	0	30
Batch number: E110191AA	Sample number(s): 6185294									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	108	60-132	3	30
Batch number: E110192AA	Sample number(s): 6185284-6185290,6185292-6185293									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	101	99	70-130	2	30
Batch number: Y110202AA	Sample number(s): 6185294									
Acetone	6	U	6.	20	ug/l	159	164	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	99	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	100	100	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	108	106	80-120	2	30
Bromoform	1	U	1.	5	ug/l	93	93	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	112	111	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	126	126	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	101	102	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	105	104	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	106	105	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	116	115	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	101	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	110	107	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	112	113	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	101	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	101	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	63	64	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	107	110	66-120	3	30
Dibromochloromethane	1	U	1.	5	ug/l	97	98	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	100	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	106	102	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	98	98	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	104	102	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	100	79-120	3	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	119	119	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	97	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	104	104	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	108	107	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	104	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	97	97	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	102	103	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	101	79-120	1	30
Freon 113	2	U	2.	10	ug/l	95	95	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	82	80	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	92	92	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	115	117	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	100	99	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	104	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	103	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	103	103	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	95	100	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	106	105	80-120	0	30
Styrene	1	U	1.	5	ug/l	98	99	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	97	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	104	71-120	3	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	94	95	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	99	100	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	98	100	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	97	98	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	96	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	99	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	99	100	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	112	111	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	107	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	106	105	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	103	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	96	97	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	95	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
Batch number: 11018SLG026	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 11019SLB026	Sample number(s): 6185284-6185293									
Aniline	170 U		170.	500	ug/kg	40		10-107		
Benzidine	1,200 U		1,200.	3,300	ug/kg	34		15-121		
Benzoic acid	170 U		170.	500	ug/kg	90		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	79		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	29		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	83		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	81		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	89		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	36*		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	90		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	91		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	670	U	670.	2,000	ug/kg	71		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		68-105		
Isophorone	17	U	17.	170	ug/kg	88		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	96		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	71		35-106		
Phenol	17	U	17.	170	ug/kg	88		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11021SLA026	Sample number(s): 6185284-6185293									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	116		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	127		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	134		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	120		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		70-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	9.2	J	6.0	18	ug/kg	121		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	120		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	130		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		56-121		
Batch number: 11018B20A	Sample number(s): 6185294									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 11019A34A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	73	67-119	1	30
Batch number: 110220004A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	104		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	97	101	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	101	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	103		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100 U		100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	100		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	101		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800 U		800.	2,400	ug/kg	108		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	102		80-120		
Batch number: 110190005A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	97		80-126		
Batch number: 110200023A	Sample number(s): 6185284									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110200018A	Sample number(s): 6185284-6185287,6185289-6185293									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	64*	78	75-125	19	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	124		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110290005A	Sample number(s): 6185288									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	76	78	75-125	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	82		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110190022A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		66-113		
Batch number: 110190002A	Sample number(s): 6185284-6185286,6185288,6185292-6185293									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	92		75-125		
Batch number: 110190020A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
Ethanol	100	U	100.	500	ug/kg	95		75-112		
Isopropanol	100	U	100.	500	ug/kg	94		75-125		
Methanol	100	U	100.	500	ug/kg	93		75-134		
Batch number: 110310023A	Sample number(s): 6185289									
Diethylene glycol	5.0	U	5.0	13	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	89		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		
Batch number: 110190021A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
Batch number: 110201026001A	Sample number(s): 6185284-6185293									
Antimony	0.0600	U	0.0600	0.200	mg/kg	125		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	96		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	95		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	96		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	101		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	96		80-120		

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Quality Control Summary

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Reported: 02/09/11 at 11:39 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nickel	0.100	U	0.100	0.400	mg/kg	101		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	97		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	97		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	98		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	95		78-122		
Batch number: 110201026001B	Sample number(s): 6185284-6185293									
Selenium	0.0400	U	0.0400	0.400	mg/kg	95		79-122		
Batch number: 110201026001C	Sample number(s): 6185284-6185293									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 110201026001D	Sample number(s): 6185284-6185293									
Barium	0.108	U	0.108	0.400	mg/kg	99		79-121		
Batch number: 110205708002	Sample number(s): 6185284-6185293									
Aluminum	5.03	U	5.03	20.0	mg/kg	102		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	97		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	105		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.24	J	0.560	10.0	mg/kg	102		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		79-121		
Tin	1.12	J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	107		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	100		80-120		
Batch number: 110205711002	Sample number(s): 6185284-6185293									
Mercury	0.0028	U	0.0028	0.0982	mg/kg	100		88-123		
Batch number: 11025102202A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	98		80-120		
Batch number: 11026621201A	Sample number(s): 6185284-6185293									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11027027201A	Sample number(s): 6185284									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11027027201B	Sample number(s): 6185285-6185293									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11027243201A	Sample number(s): 6185284-6185293									
3a Cr VI by EPA 7199	0.26	J	0.20	1.0	mg/kg	85		80-120		
Batch number: 11033658201A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293									
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11021039401A	Sample number(s): 6185284-6185286									
22a pH by 9045C						100		95-105		
Batch number: 11021039401B	Sample number(s): 6185287-6185293									
22a pH by 9045C						100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11021182101A	Sample number(s): 6185284-6185286								
32a OR Potential					99		98-102		
Batch number: 11021182101B	Sample number(s): 6185287-6185293								
32a OR Potential					99		98-102		
Batch number: 11026162401B	Sample number(s): 6185287								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11026162402A	Sample number(s): 6185290-6185291								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11032162401A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110191AA	Sample number(s): 6185284-6185290,6185292-6185293 UNSPK: 6185284								
Acetone	99		15-210						
Benzene	92		55-143						
Bromobenzene	79		43-139						
Bromochloromethane	95		60-137						
Bromodichloromethane	86		53-136						
Bromoform	89		38-124						
Bromomethane	58		42-168						
2-Butanone	76		37-163						
n-Butylbenzene	62		30-146						
sec-Butylbenzene	64		33-157						
tert-Butylbenzene	66		41-152						
Carbon Tetrachloride	100		45-153						
Chlorobenzene	85		49-135						
Chloroethane	58		39-152						
2-Chloroethyl Vinyl Ether	70		32-139						
Chloroform	96		61-142						
Chloromethane	59		51-163						
2-Chlorotoluene	72		42-146						
4-Chlorotoluene	72		39-145						
1,2-Dibromo-3-chloropropane	65		30-139						
Dibromochloromethane	91		51-128						
1,2-Dibromoethane	87		54-129						
Dibromomethane	90		57-130						
1,2-Dichlorobenzene	79		36-133						
1,3-Dichlorobenzene	74		34-134						
1,4-Dichlorobenzene	75		35-136						
Dichlorodifluoromethane	50		26-151						
1,1-Dichloroethane	91		63-142						
1,2-Dichloroethane	90		68-131						
1,1-Dichloroethene	98		61-149						
cis-1,2-Dichloroethene	95		60-136						

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Quality Control Summary

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Reported: 02/09/11 at 11:39 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
trans-1,2-Dichloroethene	100		59-142						
1,2-Dichloropropane	84		62-135						
1,3-Dichloropropane	81		58-129						
2,2-Dichloropropane	95		53-147						
1,1-Dichloropropene	88		54-145						
cis-1,3-Dichloropropene	72		51-131						
trans-1,3-Dichloropropene	73		49-129						
Ethylbenzene	75		44-141						
Freon 113	101		56-156						
Hexachlorobutadiene	62		10-155						
2-Hexanone	52		32-160						
Isopropylbenzene	69		38-144						
p-Isopropyltoluene	64		29-152						
Methyl Tertiary Butyl Ether	81		55-129						
4-Methyl-2-pentanone	54		46-139						
Methylene Chloride	87		61-141						
n-Propylbenzene	70		39-157						
Styrene	79		35-134						
1,1,1,2-Tetrachloroethane	92		52-130						
1,1,2,2-Tetrachloroethane	77		40-152						
Tetrachloroethene	93		42-149						
Toluene	87		50-146						
1,2,3-Trichlorobenzene	67		10-140						
1,2,4-Trichlorobenzene	59		10-136						
1,1,1-Trichloroethane	94		64-142						
1,1,2-Trichloroethane	89		54-139						
Trichloroethene	88		53-144						
Trichlorofluoromethane	78		47-163						
1,2,3-Trichloropropane	78		45-154						
1,2,4-Trimethylbenzene	69		37-149						
1,3,5-Trimethylbenzene	69		38-150						
Vinyl Chloride	63		50-154						
m+p-Xylene	80		44-137						
o-Xylene	71		42-137						
Batch number: 11018SLG026	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 UNSPK: P184383								
N-Nitrosodimethylamine	-148*	-150*	70-130	3	30				
Batch number: 11019SLB026	Sample number(s): 6185284-6185293 UNSPK: P184376								
Aniline	66	63	14-114	4	30				
Benzidine	15*	14*	35-141	8	30				
Benzoic acid	68	65	10-173	4	30				
Benzyl alcohol	82	83	55-123	1	30				
4-Bromophenyl-phenylether	94	98	67-129	4	30				
Carbazole	97	97	64-120	0	30				
4-Chloro-3-methylphenol	90	88	53-130	2	30				
4-Chloroaniline	62	55	23-95	12	30				
bis(2-Chloroethoxy)methane	97	97	54-117	0	30				
bis(2-Chloroethyl)ether	86	85	60-116	1	30				
bis(2-Chloroisopropyl)ether	86	89	55-142	4	30				
2-Chloronaphthalene	83	86	50-141	3	30				
2-Chlorophenol	92	93	73-121	2	30				
4-Chlorophenyl-phenylether	95	95	64-119	0	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenzofuran	96	96	71-112	1	30				
1,2-Dichlorobenzene	82	88	66-108	7	30				
1,3-Dichlorobenzene	82	85	63-109	5	30				
1,4-Dichlorobenzene	81	86	53-113	6	30				
3,3'-Dichlorobenzidine	76	68	25-123	11	30				
2,4-Dichlorophenol	92	92	78-117	0	30				
2,4-Dimethylphenol	94	92	56-130	1	30				
3,5-Dimethylphenol	105	105	70-130	0	30				
4,6-Dinitro-2-methylphenol	79	79	10-148	0	30				
2,4-Dinitrophenol	68	66	20-143	3	30				
2,4-Dinitrotoluene	96	97	57-114	2	30				
2,6-Dinitrotoluene	96	95	69-123	0	30				
1,2-Diphenylhydrazine	104	106	71-129	3	30				
Hexachlorobenzene	97	98	61-111	1	30				
Hexachlorobutadiene	95	100	62-120	5	30				
Hexachlorocyclopentadiene	99	103	10-153	4	30				
Hexachloroethane	82	91	57-109	10	30				
Isophorone	90	91	51-118	1	30				
2-Methylphenol	87	91	47-142	5	30				
4-Methylphenol	86	86	55-126	0	30				
2-Nitroaniline	97	97	67-125	0	30				
3-Nitroaniline	94	93	59-122	1	30				
4-Nitroaniline	77	71	52-112	9	30				
Nitrobenzene	98	100	51-114	2	30				
2-Nitrophenol	91	92	74-115	1	30				
4-Nitrophenol	93	95	39-133	2	30				
N-Nitroso-di-n-propylamine	83	88	60-116	6	30				
N-Nitrosodiphenylamine	96	98	86-145	2	30				
Pentachlorophenol	73	69	17-149	5	30				
Phenol	91	92	58-126	1	30				
1,2,4-Trichlorobenzene	92	96	72-115	4	30				
2,4,5-Trichlorophenol	98	98	34-139	0	30				
2,4,6-Trichlorophenol	94	96	49-140	2	30				
Batch number: 11021SLA026	Sample number(s): 6185284-6185293 UNSPK: 6185284								
Acenaphthene	98	93	63-105	5	30				
Acenaphthylene	89	82	55-126	8	30				
Anthracene	92	89	46-136	3	30				
Benzo(a)anthracene	96	97	39-144	1	30				
Benzo(a)pyrene	122	118	34-156	3	30				
Benzo(b)fluoranthene	133	125	43-155	6	30				
Benzo(g,h,i)perylene	121	120	33-141	1	30				
Benzo(k)fluoranthene	126	120	42-144	5	30				
Butylbenzylphthalate	98	100	73-140	2	30				
Di-n-butylphthalate	103	105	78-160	2	30				
Chrysene	95	96	29-156	1	30				
Dibenz(a,h)anthracene	116	116	41-130	0	30				
Diethylphthalate	97	139*	87-131	36*	30				
Dimethylphthalate	103	98	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	80	82	39-167	2	30				
Fluoranthene	95	97	26-166	2	30				
Fluorene	95	91	45-121	5	30				
Indeno(1,2,3-cd)pyrene	118	119	21-143	0	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1-Methylnaphthalene	89	86	72-123	4	30				
2-Methylnaphthalene	79	77	28-121	2	30				
Naphthalene	88	85	61-102	4	30				
N-Nitrosodimethylamine	90	86	48-113	5	30				
Di-n-octylphthalate	133	128	40-192	4	30				
Phenanthrene	91	89	12-165	2	30				
Pyrene	93	93	15-153	0	30				
Batch number: 110220004A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 UNSPK: P184383								
4-Amino-2,6-Dinitrotoluene	101	100	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	100	100	80-137	0	50				
1,3-Dinitrobenzene	99	98	38-166	1	50				
2,4-Dinitrotoluene	97	96	80-131	1	50				
2,6-Dinitrotoluene	101	100	80-127	2	50				
HMX	91	90	63-128	2	50				
Nitrobenzene	96	96	80-125	0	50				
Nitroglycerin	91	90	80-120	1	50				
2-Nitrotoluene	103	100	80-122	3	50				
3-Nitrotoluene	97	97	72-119	0	50				
4-Nitrotoluene	96	97	80-125	0	50				
PETN	106	106	80-121	0	50				
RDX	95	93	75-129	2	50				
Tetryl	90	87	55-174	3	50				
1,3,5-Trinitrobenzene	101	98	82-126	2	50				
2,4,6-Trinitrotoluene	98	97	82-130	1	50				
Batch number: 110190005A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 UNSPK: P184383								
17a Formaldehyde by 8315A	26*	11*	80-120	10	50				
Batch number: 110200023A	Sample number(s): 6185284 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110200018A	Sample number(s): 6185284-6185287,6185289-6185293 UNSPK: 6185284								
PCB-1016	82	79	29-146	3	50				
PCB-1260	107	109	39-149	2	50				
Batch number: 110290005A	Sample number(s): 6185288 UNSPK: 6185288								
PCB-1016	99	86	29-146	14	50				
PCB-1260	94	98	39-149	3	50				
Batch number: 110190022A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 UNSPK: P184383								
EFH (C12-C14)	89	96	49-123	8	20				
EFH (C15-C20)	118	122	49-123	3	20				
EFH (C21-C30)	117	106	49-123	7	20				
EFH (C30 - C40)	82	118	49-123	15	20				
EFH (C8-C11)	65	68	49-123	4	20				
Batch number: 110190002A	Sample number(s): 6185284-6185286,6185288,6185292-6185293 UNSPK: P184383								
Diethylene glycol	84	84	59-109	0	20				
Ethylene glycol	88	86	63-107	2	20				
Propylene glycol	79	76	63-107	3	20				
Batch number: 110190020A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 UNSPK: P184383								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethanol	79	80	24-143	2	20				
Isopropanol	80	81	75-125	1	20				
Methanol	77	79	45-136	3	20				
Batch number: 110310023A	Sample number(s): 6185289 UNSPK: P189227								
Diethylene glycol	82	82	59-109	1	20				
Ethylene glycol	86	87	63-107	1	20				
Propylene glycol	89	88	63-107	1	20				
Batch number: 110190021A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 UNSPK: P184383								
m-Terphenyl	96	97	75-125	1	20				
o-Terphenyl	98	98	75-125	1	20				
p-Terphenyl	86	86	75-125	1	20				
Batch number: 110201026001A	Sample number(s): 6185284-6185293 UNSPK: 6185284 BKG: 6185284								
Antimony	54*	52*	75-125	5	20	0.246	0.206	18 (1)	20
Arsenic	106	89	75-125	5	20	6.37	6.95	9	20
Beryllium	83	80	75-125	4	20	0.648	0.611	6	20
Cadmium	100	97	75-125	7	20	0.0499 J	0.0869 J	54* (1)	20
Chromium	87	65*	75-125	9	20	21.4	20.5	5	20
Cobalt	81	82	75-125	3	20	9.29	8.72	6	20
Copper	97	96	75-125	3	20	9.51	9.40	1	20
Lead	74*	82	75-125	2	20	6.52	6.40	2	20
Nickel	96	89	75-125	4	20	14.8	14.3	4	20
Silver	98	97	75-125	5	20	0.0156 J	0.0282 J	57* (1)	20
Thallium	82	84	75-125	0	20	0.297	0.262	12 (1)	20
Vanadium	75	46 (2)	75-125	7	20	39.1	36.8	6	20
Zinc	86 (2)	63 (2)	75-125	5	20	48.7	48.1	1	20
Batch number: 110201026001B	Sample number(s): 6185284-6185293 UNSPK: 6185284 BKG: 6185284								
Selenium	86	87	75-125	3	20	0.167 J	0.154 J	8 (1)	20
Batch number: 110201026001C	Sample number(s): 6185284-6185293 UNSPK: 6185284 BKG: 6185284								
Molybdenum	95	97	75-125	2	20	0.442	0.387	13 (1)	20
Batch number: 110201026001D	Sample number(s): 6185284-6185293 UNSPK: 6185284 BKG: 6185284								
Barium	59 (2)	-10 (2)	75-125	8	20	78.4	75.2	4	20
Batch number: 110205708002	Sample number(s): 6185284-6185293 UNSPK: 6185284 BKG: 6185284								
Aluminum	1769 (2)	1396 (2)	75-125	3	20	18,900	19,800	5	20
Boron	94	95	84-115	4	20	0.873 U	0.864 U	0 (1)	20
Calcium	160 (2)	290 (2)	75-125	13	20	3,240	3,600	11	20
Iron	3226 (2)	324 (2)	75-125	12	20	22,100	24,100	8	20
Lithium	102	99	82-114	0	20	26.7	29.6	10	20
Magnesium	502 (2)	291 (2)	75-125	7	20	4,790	5,180	8	20
Manganese	97 (2)	94 (2)	75-125	0	20	259	266	3	20
Phosphorus	134*	124	75-125	2	20	199	231	15	20
Potassium	134*	132*	75-125	0	20	1,910	1,990	4	20
Sodium	99	100	75-125	3	20	114	130	13 (1)	20
Strontium	99	99	75-115	2	20	19.8	21.5	8	20
Tin	90	90	80-110	4	20	2.37 J	2.32 J	2 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Titanium	321 (2)	250 (2)	75-125	4	20	1,210		1,330		10	20
Zirconium	96	97	75-125	4	20	2.51	J	2.75	J	9 (1)	20
Batch number: 110205711002	Sample number(s): 6185284-6185293 UNSPK: 6185284 BKG: 6185284										
Mercury	102	101	65-135	2	20	0.0048	J	0.0055	J	15 (1)	20
Batch number: 11025102202A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 UNSPK: P184383 BKG: P184383										
21a Cyanide by 9012B	103		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11026621201A	Sample number(s): 6185284-6185293 UNSPK: 6185284 BKG: 6185284										
7a Perchlorate EPA 314.0	96		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11027027201A	Sample number(s): 6185284 UNSPK: P184376 BKG: P184376										
11a Anions by 300.0 - Fluoride	33*		80-120			2.7		3.8		34* (1)	20
Batch number: 11027027201B	Sample number(s): 6185285-6185293 UNSPK: 6185285 BKG: 6185285										
11a Anions by 300.0 - Fluoride	10*		80-120			25.0		17.7		34*	20
Batch number: 11027243201A	Sample number(s): 6185284-6185293 UNSPK: 6185293 BKG: 6185293										
3a Cr VI by EPA 7199	90		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11033658201A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 UNSPK: 6185286 BKG: 6185286										
11a Anions by 300.0 - Nitrate	77*		80-120			4.3		4.0		8 (1)	20
Batch number: 11021039401A	Sample number(s): 6185284-6185286 BKG: P184379										
22a pH by 9045C						6.47		6.46		0	1
Batch number: 11021039401B	Sample number(s): 6185287-6185293 BKG: 6185287										
22a pH by 9045C						7.87		7.86		0	1
Batch number: 11021182101A	Sample number(s): 6185284-6185286 BKG: P184379										
32a OR Potential						373		373		0	6
Batch number: 11021182101B	Sample number(s): 6185287-6185293 BKG: 6185287										
32a OR Potential						306		306		0	6
Batch number: 11026162401B	Sample number(s): 6185287 BKG: P182855										
28a Moisture Content by 160.3						11.6		12.1		5	20
Batch number: 11026162402A	Sample number(s): 6185290-6185291 BKG: P185960										
28a Moisture Content by 160.3						15.6		16.2		4	20
Batch number: 11032162401A	Sample number(s): 6185284-6185286,6185288-6185289,6185292-6185293 BKG: P186943										
28a Moisture Content by 160.3						2.6		2.7		5	20

Surrogate Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6185284	111	105	95	83
6185285	112	105	95	84
6185286	112	104	96	81
6185287	111	104	94	83
6185288	114	112	93	84
6185289	114	108	94	85
6185290	111	105	95	81
6185292	111	105	95	85
6185293	114	108	93	85
Blank	110	108	93	85
LCS	105	106	100	100
LCSD	102	108	100	100
MS	103	103	102	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110191AA

	Toluene-d8
6185294	101
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110192AA

	Toluene-d8
6185284	99
6185285	100
6185286	99
6185287	99
6185288	100
6185289	100
6185290	99
6185292	99
6185293	99
Blank	100
LCS	100
LCSD	100
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Surrogate Quality Control

6185294	103	99	101	101
Blank	101	98	100	101
LCS	104	102	101	102
LCSD	103	101	101	104
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C
Batch number: 11018SLG026

	N-Nitrosodimethylamine-d6
6185284	129
6185285	111
6185286	147
6185288	636*
6185289	103
6185292	107
6185293	121
Blank	124
LCS	112
MS	145
MSD	152*
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11019SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6185284	87	89	95	82	99	92
6185285	85	86	93	80	94	94
6185286	90	90	95	85	101	95
6185287	93	92	103	85	96	91
6185288	89	88	97	84	93	90
6185289	93	92	106	86	98	104
6185290	90	89	102	83	94	90
6185291	87	85	100	82	91	91
6185292	94	94	109	87	98	95
6185293	87	86	100	84	93	92
Blank	93	96	100	91	104	102
LCS	88	88	102	85	95	92
MS	93	93	103	90	97	89
MSD	90	90	100	86	95	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11021SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6185284	93	86	91
6185285	98	89	88
6185286	97	84	94
6185287	91	88	100
6185288	96	84	87
6185289	97	87	96

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Surrogate Quality Control

6185290	101	80	100
6185291	90	80	87
6185292	100	88	102
6185293	90	82	88
Blank	110	102	109
LCS	107	89	102
MS	99	93	93
MSD	100	83	93
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11018B20A

	Trifluorotoluene-F
6185294	86
Blank	70
LCS	121
LCSD	126
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11019A34A

	Trifluorotoluene-F
6185284	79
6185285	73
6185286	76
6185288	77
6185289	76
6185292	76
6185293	76
Blank	86
LCS	84
LCSD	89
Limits:	61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110190005A

	Butyraldehyde
6185284	104
6185285	103
6185286	99
6185288	78
6185289	108
6185292	98
6185293	106
Blank	99
LCS	109
MS	113
MSD	113
Limits:	64-126

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110200018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6185284	97	137*
6185285	100	135*
6185286	100	132*
6185287	102	115
6185289	91	105
6185290	95	116
6185291	92	113
6185292	102	113
6185293	107	129*
Blank	91	116
LCS	92	127*
LCSD	96	138*
MS	92	115
MSD	91	111
Limits:	53-139	45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 110220004A

	2-Nitro-m-xylene
6185284	107
6185285	108
6185286	113
6185288	111
6185289	118
6185292	117
6185293	112
Blank	124
LCS	119
LCSD	132
MS	108
MSD	109
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110290005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6185288	101	115
Blank	104	113
LCS	100	125*
LCSD	101	128*
MS	139	124*
MSD	109	122*
Limits:	53-139	45-120

Analysis Name: 27a Glycols by 8015B
Batch number: 110190002A

	Tetramethylene glycol

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Surrogate Quality Control

6185284	93
6185285	91
6185286	58
6185288	77
6185292	80
6185293	80
Blank	101
LCS	99
MS	89
MSD	86

Limits: 29-137

Analysis Name: 25a Alcohols by 8015B
Batch number: 110190020A

	Acetone
6185284	83
6185285	80
6185286	83
6185288	85
6185289	77
6185292	82
6185293	80
Blank	97
LCS	95
MS	76
MSD	81

Limits: 42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110190021A

	n-Triacontane-d62
6185284	104
6185285	101
6185286	105
6185288	98
6185289	91
6185292	103
6185293	86
Blank	106
LCS	101
MS	101
MSD	102

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110190022A

	Chlorobenzene	Orthoterphenyl
6185284	84	100
6185285	86	98
6185286	85	98
6185288	86	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229398
Reported: 02/09/11 at 11:39 AM

Surrogate Quality Control

6185289	103	120
6185292	85	100
6185293	82	101
Blank	87	99
LCS	92	106
MS	92	105
MSD	94	107
Limits:	37-125	47-145

Analysis Name: 27a Glycols by 8015B
Batch number: 110310023A

	Tetramethylene glycol
6185289	53
Blank	94
LCS	98
MS	87
MSD	84
Limits:	29-137

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13013 1229398 6185284-94

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6A/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-112-SA5B-SB-4.0-5.0	01.17.11	1138	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
SL-112-SA5B-SB-4.5	01.17.11	1134	SOIL	NONE	5 ENCORES											X	X	X										
SL-101-SA5B-SB-4.0-5.0	01.17.11	0949	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-101-SA5B-SB-4.5	01.17.11	0944	SOIL	NONE	5 ENCORES											X	X	X										
SL-101-SA5B-SB-7.5-8.5	01.17.11	0959	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-101-SA5B-SB-8.0	01.17.11	0954	SOIL	NONE	5 ENCORES											X	X	X										
SL-078-SA5B-SB-4.0-5.0	01.17.11	1147	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-078-SA5B-SB-4.5	01.17.11	1143	SOIL	NONE	4 ENCORES											X	X											
SL-082-SA5B-SB-2.25-3.25	01.17.11	0945	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-082-SA5B-SB-2.75	01.17.11	0941	SOIL	NONE	5 ENCORES											X	X	X										
SL-082-SA5B-SB-7.0-8.0	01.17.11	0953	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-082-SA5B-SB-7.5	01.17.11	0949	SOIL	NONE	5 ENCORES											X	X	X										
SL-039-SA5B-SB-4.0-5.0	01.17.11	1516	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-039-SA5B-SB-4.5	01.17.11	1515	SOIL	NONE	4 ENCORES											X	X											
SL-039-SA5B-SB-9.0-10.0	01.17.11	1521	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-113-SA5B-SB-4.0-5.0	01.17.11	1429	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-113-SA5B-SB-4.5	01.17.11	1425	SOIL	NONE	5 ENCORES											X	X	X										
SL-117-SA5B-SB-4.0-5.0	01.17.11	1554	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-117-SA5B-SB-4.5	01.17.11	1550	SOIL	NONE	5 ENCORES											X	X	X										
TB-011711	01.17.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/17/2011, 17:00		1/18/11 1145
Received by: (Signature)	Date/Time	Airbill No.(s)	
	1/18/11	8700 5935 4064, ...4009	

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/18/2011
Group Number: 1229400
SDG: DX040
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-112-SA5B-SB-4.0-5.0 Soil	6185299
SL-101-SA5B-SB-4.0-5.0 Soil	6185300
SL-101-SA5B-SB-7.5-8.5 Soil	6185301
SL-078-SA5B-SB-4.0-5.0 Soil	6185302
SL-082-SA5B-SB-2.25-3.25 Soil	6185303
SL-082-SA5B-SB-7.0-8.0 Soil	6185304
SL-039-SA5B-SB-4.0-5.0 Soil	6185305
SL-039-SA5B-SB-9.0-10.0 Soil	6185306
SL-113-SA5B-SB-4.0-5.0 Soil	6185307
SL-117-SA5B-SB-4.0-5.0 Soil	6185308

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185299
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS112 SDG#: DX040-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185299
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS112 SDG#: DX040-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0229	U	0.0229	1.08	1
11031	12378-PeCDD	40321-76-4	0.0267	U	0.0267	5.38	1
11031	123478-HxCDD	39227-28-6	0.0198	JBQ	0.0184	5.38	1
11031	123678-HxCDD	57653-85-7	0.0635	JBQ	0.0196	5.38	1
11031	123789-HxCDD	19408-74-3	0.0217	JBQ	0.0180	5.38	1
11031	1234678-HpCDD	35822-46-9	0.850	JBQ	0.0325	5.38	1
11031	OCDD	3268-87-9	7.94	JB	0.0283	10.8	1
11031	2378-TCDF	51207-31-9	0.0186	U	0.0186	1.08	1
11031	12378-PeCDF	57117-41-6	0.0433	JB	0.00818	5.38	1
11031	23478-PeCDF	57117-31-4	0.0903	JB	0.00850	5.38	1
11031	123478-HxCDF	70648-26-9	0.0737	JB	0.0192	5.38	1
11031	123678-HxCDF	57117-44-9	0.0766	JB	0.0154	5.38	1
11031	123789-HxCDF	72918-21-9	0.0888	JBQ	0.0205	5.38	1
11031	234678-HxCDF	60851-34-5	0.151	JBQ	0.0166	5.38	1
11031	1234678-HpCDF	67562-39-4	0.545	JB	0.0118	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0901	JB	0.0215	5.38	1
11031	OCDF	39001-02-0	0.654	JBQ	0.0320	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185299
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS112 SDG#: DX040-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5B-SB-4.0-5.0

LLI Sample # SW 6185299
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:39

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS112 SDG#: DX040-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 07:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185300
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1014 SDG#: DX040-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185300
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1014 SDG#: DX040-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0262	U	0.0262	1.14	1
11031	12378-PeCDD	40321-76-4	0.0319	U	0.0319	5.72	1
11031	123478-HxCDD	39227-28-6	0.0205	U	0.0205	5.72	1
11031	123678-HxCDD	57653-85-7	0.0247	JBQ	0.0208	5.72	1
11031	123789-HxCDD	19408-74-3	0.0354	JB	0.0203	5.72	1
11031	1234678-HpCDD	35822-46-9	0.602	JB	0.0312	5.72	1
11031	OCDD	3268-87-9	5.21	JB	0.0285	11.4	1
11031	2378-TCDF	51207-31-9	0.0186	U	0.0186	1.14	1
11031	12378-PeCDF	57117-41-6	0.0120	JBQ	0.00904	5.72	1
11031	23478-PeCDF	57117-31-4	0.101	JBQ	0.00961	5.72	1
11031	123478-HxCDF	70648-26-9	0.112	JBQ	0.0206	5.72	1
11031	123678-HxCDF	57117-44-9	0.0691	JBQ	0.0157	5.72	1
11031	123789-HxCDF	72918-21-9	0.0713	JBQ	0.0217	5.72	1
11031	234678-HxCDF	60851-34-5	0.158	JBQ	0.0172	5.72	1
11031	1234678-HpCDF	67562-39-4	0.513	JB	0.0102	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0672	JBQ	0.0183	5.72	1
11031	OCDF	39001-02-0	0.505	JB	0.0304	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185300
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1014 SDG#: DX040-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-101-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-4.0-5.0

LLI Sample # SW 6185300
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:49

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1014 SDG#: DX040-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 08:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185301
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1017 SDG#: DX040-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185301
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1017 SDG#: DX040-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0248	U	0.0248	1.09	1
11031	12378-PeCDD	40321-76-4	0.0318	U	0.0318	5.45	1
11031	123478-HxCDD	39227-28-6	0.0159	JB	0.0158	5.45	1
11031	123678-HxCDD	57653-85-7	0.0251	JBQ	0.0170	5.45	1
11031	123789-HxCDD	19408-74-3	0.0168	JBQ	0.0157	5.45	1
11031	1234678-HpCDD	35822-46-9	0.291	JBQ	0.0272	5.45	1
11031	OCDD	3268-87-9	0.594	JB	0.0258	10.9	1
11031	2378-TCDF	51207-31-9	0.0183	U	0.0183	1.09	1
11031	12378-PeCDF	57117-41-6	0.0105	JBQ	0.00818	5.45	1
11031	23478-PeCDF	57117-31-4	0.0906	JB	0.00862	5.45	1
11031	123478-HxCDF	70648-26-9	0.0928	JB	0.0183	5.45	1
11031	123678-HxCDF	57117-44-9	0.0751	JB	0.0141	5.45	1
11031	123789-HxCDF	72918-21-9	0.0593	JBQ	0.0203	5.45	1
11031	234678-HxCDF	60851-34-5	0.144	JBQ	0.0158	5.45	1
11031	1234678-HpCDF	67562-39-4	0.398	JB	0.00851	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0656	JBQ	0.0171	5.45	1
11031	OCDF	39001-02-0	0.330	JB	0.0311	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185301
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1017 SDG#: DX040-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5B-SB-7.5-8.5

LLI Sample # SW 6185301
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:59

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1017 SDG#: DX040-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 09:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-078-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185302
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS078 SDG#: DX040-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185302
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS078 SDG#: DX040-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0303	U	0.0303	1.18	1
11031	12378-PeCDD	40321-76-4	0.0366	U	0.0366	5.91	1
11031	123478-HxCDD	39227-28-6	0.0402	JBQ	0.0333	5.91	1
11031	123678-HxCDD	57653-85-7	0.0348	U	0.0348	5.91	1
11031	123789-HxCDD	19408-74-3	0.0894	JBQ	0.0332	5.91	1
11031	1234678-HpCDD	35822-46-9	1.60	JB	0.0505	5.91	1
11031	OCDD	3268-87-9	15.4	B	0.0369	11.8	1
11031	2378-TCDF	51207-31-9	0.0342	U	0.0342	1.18	1
11031	12378-PeCDF	57117-41-6	0.0632	JBQ	0.0124	5.91	1
11031	23478-PeCDF	57117-31-4	0.134	JB	0.0141	5.91	1
11031	123478-HxCDF	70648-26-9	0.232	JB	0.0246	5.91	1
11031	123678-HxCDF	57117-44-9	0.0688	JB	0.0194	5.91	1
11031	123789-HxCDF	72918-21-9	0.101	JBQ	0.0286	5.91	1
11031	234678-HxCDF	60851-34-5	0.188	JBQ	0.0230	5.91	1
11031	1234678-HpCDF	67562-39-4	0.485	JB	0.0145	5.91	1
11031	1234789-HpCDF	55673-89-7	0.0961	JB	0.0291	5.91	1
11031	OCDF	39001-02-0	0.626	JB	0.0444	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185302
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS078 SDG#: DX040-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-078-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA5B-SB-4.0-5.0

LLI Sample # SW 6185302
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 11:47

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS078 SDG#: DX040-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 10:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401B	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-082-SA5B-SB-2.25-3.25 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185303
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0822 SDG#: DX040-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-082-SA5B-SB-2.25-3.25 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185303
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0822 SDG#: DX040-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0218	U	0.0218	1.16	1
11031	12378-PeCDD	40321-76-4	0.174	JB	0.0472	5.81	1
11031	123478-HxCDD	39227-28-6	0.0281	U	0.0281	5.81	1
11031	123678-HxCDD	57653-85-7	0.891	JB	0.0294	5.81	1
11031	123789-HxCDD	19408-74-3	1.15	JBQ	0.0279	5.81	1
11031	1234678-HpCDD	35822-46-9	0.778	JBQ	0.0375	5.81	1
11031	OCDD	3268-87-9	5.91	JB	0.0390	11.6	1
11031	2378-TCDF	51207-31-9	0.0642	JQ	0.0285	1.16	1
11031	12378-PeCDF	57117-41-6	0.344	JB	0.0122	5.81	1
11031	23478-PeCDF	57117-31-4	0.200	JBQ	0.0144	5.81	1
11031	123478-HxCDF	70648-26-9	0.108	JB	0.0256	5.81	1
11031	123678-HxCDF	57117-44-9	0.138	JB	0.0187	5.81	1
11031	123789-HxCDF	72918-21-9	1.51	JB	0.0283	5.81	1
11031	234678-HxCDF	60851-34-5	0.254	JBQ	0.0221	5.81	1
11031	1234678-HpCDF	67562-39-4	0.537	JB	0.0143	5.81	1
11031	1234789-HpCDF	55673-89-7	0.109	JBQ	0.0288	5.81	1
11031	OCDF	39001-02-0	0.747	JB	0.0398	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA5B-SB-2.25-3.25 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185303
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0822 SDG#: DX040-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA5B-SB-2.25-3.25 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-2.25-3.25

LLI Sample # SW 6185303
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:45

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0822 SDG#: DX040-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 11:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-082-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185304
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0827 SDG#: DX040-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-082-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185304
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0827 SDG#: DX040-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	U	0.0317	1.15	1
11031	12378-PeCDD	40321-76-4	0.0398	U	0.0398	5.77	1
11031	123478-HxCDD	39227-28-6	0.0317	JBQ	0.0249	5.77	1
11031	123678-HxCDD	57653-85-7	0.108	JBQ	0.0257	5.77	1
11031	123789-HxCDD	19408-74-3	0.0923	JB	0.0241	5.77	1
11031	1234678-HpCDD	35822-46-9	1.49	JBQ	0.0422	5.77	1
11031	OCDD	3268-87-9	10.4	JB	0.0389	11.5	1
11031	2378-TCDF	51207-31-9	0.0611	JQ	0.0270	1.15	1
11031	12378-PeCDF	57117-41-6	0.0384	JB	0.0122	5.77	1
11031	23478-PeCDF	57117-31-4	0.104	JB	0.0116	5.77	1
11031	123478-HxCDF	70648-26-9	0.0951	JBQ	0.0225	5.77	1
11031	123678-HxCDF	57117-44-9	0.0787	JBQ	0.0175	5.77	1
11031	123789-HxCDF	72918-21-9	0.0629	JB	0.0166	5.77	1
11031	234678-HxCDF	60851-34-5	0.157	JBQ	0.0157	5.77	1
11031	1234678-HpCDF	67562-39-4	0.636	JB	0.0275	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0579	JBQ	0.0293	5.77	1
11031	OCDF	39001-02-0	0.706	JBQ	0.0407	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	87	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185304
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0827 SDG#: DX040-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA5B-SB-7.0-8.0

LLI Sample # SW 6185304
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 09:53

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0827 SDG#: DX040-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 12:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185305
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0394 SDG#: DX040-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185305
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0394 SDG#: DX040-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0290 U	0.0290	1.11	1
11031	12378-PeCDD	40321-76-4	0.0534 JBQ	0.0310	5.56	1
11031	123478-HxCDD	39227-28-6	0.0257 U	0.0257	5.56	1
11031	123678-HxCDD	57653-85-7	0.217 JBQ	0.0266	5.56	1
11031	123789-HxCDD	19408-74-3	0.316 JBQ	0.0254	5.56	1
11031	1234678-HpCDD	35822-46-9	0.809 JBQ	0.0342	5.56	1
11031	OCDD	3268-87-9	4.67 JB	0.0370	11.1	1
11031	2378-TCDF	51207-31-9	0.0361 J	0.0252	1.11	1
11031	12378-PeCDF	57117-41-6	0.0603 JB	0.0107	5.56	1
11031	23478-PeCDF	57117-31-4	0.140 JBQ	0.0117	5.56	1
11031	123478-HxCDF	70648-26-9	0.102 JB	0.0233	5.56	1
11031	123678-HxCDF	57117-44-9	0.0916 JB	0.0171	5.56	1
11031	123789-HxCDF	72918-21-9	0.245 JB	0.0256	5.56	1
11031	234678-HxCDF	60851-34-5	0.170 JB	0.0186	5.56	1
11031	1234678-HpCDF	67562-39-4	0.488 JB	0.0138	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0831 JBQ	0.0250	5.56	1
11031	OCDF	39001-02-0	0.535 JBQ	0.0430	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185305
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0394 SDG#: DX040-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-4.0-5.0

LLI Sample # SW 6185305
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:18

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0394 SDG#: DX040-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 13:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185306
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0399 SDG#: DX040-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185306
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0399 SDG#: DX040-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0291 U	0.0291	1.18	1
11031	12378-PeCDD	40321-76-4	0.0554 JBQ	0.0312	5.91	1
11031	123478-HxCDD	39227-28-6	0.0246 JBQ	0.0160	5.91	1
11031	123678-HxCDD	57653-85-7	0.0451 JBQ	0.0167	5.91	1
11031	123789-HxCDD	19408-74-3	0.0199 JBQ	0.0165	5.91	1
11031	1234678-HpCDD	35822-46-9	0.342 JB	0.0330	5.91	1
11031	OCDD	3268-87-9	1.06 JBQ	0.0353	11.8	1
11031	2378-TCDF	51207-31-9	0.0473 JQ	0.0228	1.18	1
11031	12378-PeCDF	57117-41-6	0.0909 JBQ	0.00957	5.91	1
11031	23478-PeCDF	57117-31-4	0.124 JBQ	0.0119	5.91	1
11031	123478-HxCDF	70648-26-9	0.114 JB	0.0242	5.91	1
11031	123678-HxCDF	57117-44-9	0.0967 JB	0.0164	5.91	1
11031	123789-HxCDF	72918-21-9	0.0319 U	0.0319	5.91	1
11031	234678-HxCDF	60851-34-5	0.201 JBQ	0.0199	5.91	1
11031	1234678-HpCDF	67562-39-4	0.412 JB	0.0125	5.91	1
11031	1234789-HpCDF	55673-89-7	0.131 JB	0.0325	5.91	1
11031	OCDF	39001-02-0	0.672 JB	0.0585	11.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	113	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185306
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0399 SDG#: DX040-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5B-SB-9.0-10.0

LLI Sample # SW 6185306
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:21

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0399 SDG#: DX040-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 14:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-113-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185307
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS113 SDG#: DX040-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185307
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS113 SDG#: DX040-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0228	U	0.0228	1.12	1
11031	12378-PeCDD	40321-76-4	0.0872	JBQ	0.0275	5.60	1
11031	123478-HxCDD	39227-28-6	0.0197	U	0.0197	5.60	1
11031	123678-HxCDD	57653-85-7	0.111	JBQ	0.0211	5.60	1
11031	123789-HxCDD	19408-74-3	0.101	JBQ	0.0203	5.60	1
11031	1234678-HpCDD	35822-46-9	1.39	JB	0.0331	5.60	1
11031	OCDD	3268-87-9	14.1	B	0.0295	11.2	1
11031	2378-TCDF	51207-31-9	0.0347	J	0.0189	1.12	1
11031	12378-PeCDF	57117-41-6	0.129	JBQ	0.00929	5.60	1
11031	23478-PeCDF	57117-31-4	0.161	JBQ	0.0113	5.60	1
11031	123478-HxCDF	70648-26-9	0.134	JB	0.0241	5.60	1
11031	123678-HxCDF	57117-44-9	0.101	JB	0.0181	5.60	1
11031	123789-HxCDF	72918-21-9	0.146	JBQ	0.0315	5.60	1
11031	234678-HxCDF	60851-34-5	0.219	JB	0.0223	5.60	1
11031	1234678-HpCDF	67562-39-4	0.611	JB	0.0122	5.60	1
11031	1234789-HpCDF	55673-89-7	0.131	JB	0.0287	5.60	1
11031	OCDF	39001-02-0	0.943	JB	0.0373	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	115	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185307
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS113 SDG#: DX040-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5B-SB-4.0-5.0

LLI Sample # SW 6185307
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 14:29

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS113 SDG#: DX040-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 18:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185308
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS117 SDG#: DX040-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-117-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185308
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS117 SDG#: DX040-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0321	U	0.0321	1.13	1
11031	12378-PeCDD	40321-76-4	0.0564	JBQ	0.0363	5.65	1
11031	123478-HxCDD	39227-28-6	0.0251	U	0.0251	5.65	1
11031	123678-HxCDD	57653-85-7	0.160	JB	0.0267	5.65	1
11031	123789-HxCDD	19408-74-3	0.270	JBQ	0.0255	5.65	1
11031	1234678-HpCDD	35822-46-9	0.585	JB	0.0350	5.65	1
11031	OCDD	3268-87-9	4.39	JB	0.0399	11.3	1
11031	2378-TCDF	51207-31-9	0.0229	U	0.0229	1.13	1
11031	12378-PeCDF	57117-41-6	0.113	JBQ	0.0115	5.65	1
11031	23478-PeCDF	57117-31-4	0.143	JBQ	0.0110	5.65	1
11031	123478-HxCDF	70648-26-9	0.162	JBQ	0.0252	5.65	1
11031	123678-HxCDF	57117-44-9	0.110	JBQ	0.0216	5.65	1
11031	123789-HxCDF	72918-21-9	0.270	JBQ	0.0297	5.65	1
11031	234678-HxCDF	60851-34-5	0.215	JB	0.0225	5.65	1
11031	1234678-HpCDF	67562-39-4	0.635	JB	0.0165	5.65	1
11031	1234789-HpCDF	55673-89-7	0.102	JB	0.0307	5.65	1
11031	OCDF	39001-02-0	0.666	JBQ	0.0486	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-117-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185308
LLI Group # 1229400
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/17/2011 15:54

Submitted: 01/18/2011 11:45
Reported: 02/24/2011 22:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS117 SDG#: DX040-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-117-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5B-SB-4.0-5.0

LLI Sample # SW 6185308
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS117 SDG#: DX040-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 19:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229400
Reported: 02/24/11 at 10:26 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11026162401B	Sample number(s): 6185302								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11026162402A	Sample number(s): 6185305-6185306								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11032162401A	Sample number(s): 6185299-6185301,6185303-6185304,6185307-6185308								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11029001	Sample number(s): 6185299-6185308								
2378-TCDD	0.0207 U	0.0207	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0229 J	0.0214	5.00	ng/kg	91		70-142		
123478-HxCDD	0.0261 J	0.0121	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0265 J	0.0126	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0126 J	0.0120	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.247 J	0.0234	5.00	ng/kg	92		70-140		
OCDD	0.591 J	0.0240	10.0	ng/kg	94		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	110		75-158		
12378-PeCDF	0.0260 J	0.00830	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0889 J	0.00990	5.00	ng/kg	93		68-160		
123478-HxCDF	0.105 J	0.0234	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0849 J	0.0155	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0730 J	0.0283	5.00	ng/kg	93		78-130		
234678-HxCDF	0.201 J	0.0186	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.455 J	0.0102	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0955 J	0.0221	5.00	ng/kg	96		78-138		
OCDF	0.549 J	0.0402	10.0	ng/kg	95		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11026162401B	Sample number(s): 6185302 BKG: P182855								
28a Moisture Content by 160.3						11.6	12.1	5	20
Batch number: 11026162402A	Sample number(s): 6185305-6185306 BKG: P185960								
28a Moisture Content by 160.3						15.6	16.2	4	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229400
Reported: 02/24/11 at 10:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11032162401A	Sample number(s): 6185299-6185301,6185303-6185304,6185307-6185308							BKG: P186943	
28a Moisture Content by 160.3						2.6	2.7	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11029001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6185299	75	78	74	89	79	71
6185300	72	73	70	86	76	68
6185301	74	78	72	91	79	68
6185302	72	74	68	85	73	63
6185303	74	74	66	87	76	65
6185304	81	81	61	76	86	88
6185305	73	78	66	86	80	65
6185306	80	75	62	89	75	51
6185307	73	78	72	93	75	58
6185308	58	66	62	69	64	53
Blank	75	67	62	87	70	52
OPR	76	68	64	84	72	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6185299	104	68	69	86	80	79
6185300	106	70	77	85	77	77
6185301	114	69	74	89	80	83
6185302	106	62	65	86	77	77
6185303	105	63	63	88	79	80
6185304	75	85	87	90	78	78
6185305	105	71	72	85	80	80
6185306	113	51	46	97	87	87
6185307	115	59	55	93	83	82
6185308	82	53	49	91	68	65
Blank	112	59	65	95	80	83
OPR	109	59	62	89	78	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6185299	79	81	83	91	74	89
6185300	80	79	86	97	70	86

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229400
Reported: 02/24/11 at 10:26 PM

Surrogate Quality Control

6185301	80	83	89	101	74	92
6185302	77	77	82	90	70	90
6185303	80	82	82	87	76	93
6185304	80	83	84	91	83	85
6185305	80	80	87	92	75	92
6185306	88	88	88	92	74	99
6185307	82	79	86	89	74	99
6185308	67	65	67	67	61	71
Blank	84	84	91	104	65	86
OPR	82	82	86	93	65	85
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1229400 6185299-308

CHAIN OF CUSTODY RECORD

COM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP Samplers Signature:						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahymena EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																								
SL-112-SA5B-SB-4.0-5.0	01.17.11	1136	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X		
SL-112-SA5B-SB-4.5	01.17.11	1134	SOIL	NONE	5 ENCORES											X	X	X											
SL-101-SA5B-SB-4.0-5.0	01.17.11	0949	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-101-SA5B-SB-4.5	01.17.11	0944	SOIL	NONE	5 ENCORES											X	X	X											
SL-101-SA5B-SB-7.5-8.5	01.17.11	0959	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-101-SA5B-SB-8.0	01.17.11	0954	SOIL	NONE	5 ENCORES											X	X	X											
SL-076-SA5B-SB-4.0-5.0	01.17.11	1147	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-076-SA5B-SB-4.5	01.17.11	1143	SOIL	NONE	4 ENCORES											X	X												
SL-082-SA5B-SB-2.25-3.25	01.17.11	0945	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-082-SA5B-SB-2.75	01.17.11	0941	SOIL	NONE	5 ENCORES											X	X	X											
SL-082-SA5B-SB-7.0-8.0	01.17.11	0953	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-082-SA5B-SB-7.5	01.17.11	0949	SOIL	NONE	5 ENCORES											X	X	X											
SL-039-SA5B-SB-4.0-5.0	01.17.11	1518	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-039-SA5B-SB-4.5	01.17.11	1515	SOIL	NONE	4 ENCORES											X	X												
SL-039-SA5B-SB-9.0-10.0	01.17.11	1521	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-113-SA5B-SB-4.0-5.0	01.17.11	1429	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-113-SA5B-SB-4.5	01.17.11	1425	SOIL	NONE	5 ENCORES											X	X	X											
SL-117-SA5B-SB-4.0-5.0	01.17.11	1554	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X																	
SL-117-SA5B-SB-4.5	01.17.11	1550	SOIL	NONE	5 ENCORES											X	X	X											
TB-011711	01.17.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/17/2011, 17:00		1/18/11 1145
Received by: (Signature)	Date/Time	Airbill No.(s)	
	1/18/11	8700 8838 4664, ...4668	

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/19/2011
Group Number: 1229557
SDG: DE063
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-296-SA5B-SB-4.0-5.0 Soil	6185950
SL-296-SA5B-SB-9.0-10.0 Soil	6185951
SL-295-SA5B-SB-4.0-5.0 Soil	6185952
SL-295-SA5B-SB-9.0-10.0 Soil	6185953
SL-118-SA5B-SB-4.0-5.0 Soil	6185954
SL-118-SA5B-SB-8.0-9.0 Soil	6185955
SL-116-SA5B-SB-4.0-5.0 Soil	6185956
SL-283-SA5B-SB-4.0-5.0 Soil	6185957
SL-283-SA5B-SB-9.0-10.0 Soil	6185958
SL-280-SA5B-SB-4.0-5.0 Soil	6185959
SL-280-SA5B-SB-9.0-10.0 Soil	6185960
SL-115-SA5B-SB-4.0-5.0 Soil	6185961
SL-114-SA5B-SB-4.0-5.0 Soil	6185962
TB-011811 Water	6185963

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-296-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185950
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:19

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2964 SDG#: DE063-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.93
06192	Methylene Chloride	75-09-2	0.44	J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

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Sample Description: SL-296-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185950
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:19

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S2964 SDG#: DE063-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.93
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.2
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185950
LLI Group # 1229557
Account # 13013

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14420 Albemarle Point Place
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S2964 SDG#: DE063-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.87	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.3	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1

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SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185950
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.6	20		1
10138	Fluoranthene	206-44-0	1.6	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.99	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.4	J	0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	2.7	U	2.7	9.3		5
10225	PCB-1232	11141-16-5	2.9	U	2.9	9.3		5
10225	PCB-1242	53469-21-9	2.7	U	2.7	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5
10225	PCB-1260	11096-82-5	1.8	U	1.8	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		5.41	21.5		1
07914	Boron	7440-42-8	0.958	U	0.958	5.38		1
01650	Calcium	7440-70-2	5,610		6.60	21.5		1
01654	Iron	7439-89-6	19,400		5.07	21.5		1
01656	Lithium	7439-93-2	15.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,840		2.73	10.8		1
06958	Manganese	7439-96-5	230		0.0839	0.538		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-296-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185950
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Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	437		0.603	10.8		1
01662	Potassium	7440-09-7	2,430		19.4	53.8		1
01667	Sodium	7440-23-5	220		40.1	108		1
07968	Strontium	7440-24-6	34.3		0.0667	0.538		1
06969	Tin	7440-31-5	2.08	J	1.08	10.8		1
06970	Titanium	7440-32-6	992		0.409	1.08		1
10146	Zirconium	7440-67-7	3.96	J	0.904	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.213	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.33		0.0878	0.439		2
06126	Barium	7440-39-3	84.9		0.119	0.439		2
06127	Beryllium	7440-41-7	0.445		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.154		0.0439	0.110		2
06131	Chromium	7440-47-3	20.2		0.132	0.439		2
06132	Cobalt	7440-48-4	4.96		0.0220	0.110		2
06133	Copper	7440-50-8	8.14		0.0724	0.439		2
06135	Lead	7439-92-1	4.83		0.0114	0.220		2
06138	Molybdenum	7439-98-7	1.28		0.0549	0.110		2
06139	Nickel	7440-02-0	10.8		0.110	0.439		2
06141	Selenium	7782-49-2	0.170	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0252	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.221		0.0329	0.110		2
06148	Vanadium	7440-62-2	33.5		0.0241	0.110		2
06149	Zinc	7440-66-6	48.1		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0086	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	317		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-296-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185950
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:19

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2964 SDG#: DE063-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-296-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011 00:32	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 20:05	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:38	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011 13:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011 13:04	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011 12:39	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 03:59	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/26/2011 21:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 17:01	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 07:29	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-296-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185950
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:19

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2964 SDG#: DE063-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 13:05	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/24/2011 23:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/26/2011 23:44	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/26/2011 23:44	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/26/2011 23:44	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/26/2011 23:44	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 01:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 18:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11028243201A	02/01/2011 22:02	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-296-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185951
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2969 SDG#: DE063-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Anthracene	120-12-7	19	J	18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	97	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	43	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	54	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	23	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	29	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	84	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	18	370		1
04688	Fluoranthene	206-44-0	220		18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	19	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-296-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185951
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2969 SDG#: DE063-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenanthrene	85-01-8	66	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	270		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	J	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.0		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-296-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185951
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2969 SDG#: DE063-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The DCB surrogate data for the blank is outside the project QC limits. Since the recovery is within our staticistal limit of 53%-133%, the results are reported.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.44	21.6		1
07914	Boron	7440-42-8	0.962	U	0.962	5.40		1
01650	Calcium	7440-70-2	3,970		6.63	21.6		1
01654	Iron	7439-89-6	17,400		5.09	21.6		1
01656	Lithium	7439-93-2	19.1		0.24	2.2		1
01657	Magnesium	7439-95-4	3,870		2.75	10.8		1
06958	Manganese	7439-96-5	253		0.0843	0.540		1
10145	Phosphorus	7723-14-0	343		0.605	10.8		1
01662	Potassium	7440-09-7	2,640		19.5	54.0		1
01667	Sodium	7440-23-5	182		40.3	108		1
07968	Strontium	7440-24-6	25.3		0.0670	0.540		1
06969	Tin	7440-31-5	2.27	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,130		0.411	1.08		1
10146	Zirconium	7440-67-7	3.78	J	0.908	5.40		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0919	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.70		0.0865	0.432		2
06126	Barium	7440-39-3	85.4		0.117	0.432		2
06127	Beryllium	7440-41-7	0.537		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.125		0.0432	0.108		2
06131	Chromium	7440-47-3	16.9		0.130	0.432		2
06132	Cobalt	7440-48-4	5.13		0.0216	0.108		2
06133	Copper	7440-50-8	7.62		0.0713	0.432		2
06135	Lead	7439-92-1	4.99		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.839		0.0540	0.108		2
06139	Nickel	7440-02-0	10.0		0.108	0.432		2
06141	Selenium	7782-49-2	0.124	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0222	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.216		0.0324	0.108		2
06148	Vanadium	7440-62-2	33.1		0.0238	0.108		2
06149	Zinc	7440-66-6	43.9		0.605	3.24		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0137	J	0.0031	0.107		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.88	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-296-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185951
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2969 SDG#: DE063-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	323		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 05:43	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/26/2011 22:01	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 08:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 13:25	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-296-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185951
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2969 SDG#: DE063-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:03	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 02:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 19:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11028243201A	02/01/2011 22:15	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-295-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185952
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2954 SDG#: DE063-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	0.43	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-295-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185952
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2954 SDG#: DE063-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.63
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-295-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185952
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2954 SDG#: DE063-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-295-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185952
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2954 SDG#: DE063-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.69	22.6		1
07914	Boron	7440-42-8	1.01	U	1.01	5.66		1
01650	Calcium	7440-70-2	8,340		6.94	22.6		1
01654	Iron	7439-89-6	26,700		5.33	22.6		1
01656	Lithium	7439-93-2	25.5		0.25	2.3		1
01657	Magnesium	7439-95-4	5,380		2.87	11.3		1
06958	Manganese	7439-96-5	350		0.0883	0.566		1
10145	Phosphorus	7723-14-0	345		0.634	11.3		1
01662	Potassium	7440-09-7	2,900		20.4	56.6		1
01667	Sodium	7440-23-5	241		42.2	113		1
07968	Strontium	7440-24-6	26.1		0.0702	0.566		1
06969	Tin	7440-31-5	2.77	J	1.13	11.3		1

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Sample Description: SL-295-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185952
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2954 SDG#: DE063-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,390		0.430	1.13		1
10146	Zirconium	7440-67-7	4.26	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.16		0.0896	0.448		2
06126	Barium	7440-39-3	101		0.121	0.448		2
06127	Beryllium	7440-41-7	0.691		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.157		0.0448	0.112		2
06131	Chromium	7440-47-3	20.6		0.134	0.448		2
06132	Cobalt	7440-48-4	7.13		0.0224	0.112		2
06133	Copper	7440-50-8	8.44		0.0739	0.448		2
06135	Lead	7439-92-1	6.21		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.560		0.0560	0.112		2
06139	Nickel	7440-02-0	12.8		0.112	0.448		2
06141	Selenium	7782-49-2	0.110	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0355	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.301		0.0336	0.112		2
06148	Vanadium	7440-62-2	41.4		0.0246	0.112		2
06149	Zinc	7440-66-6	59.0		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0054	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.0		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	328		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-295-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185952
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2954 SDG#: DE063-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-295-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011 00:55	Laura M Krieger	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 20:25	Jason M Long	20.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 13:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011 13:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011 13:02	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 06:18	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/26/2011 22:34	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 08:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 13:35	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-295-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185952
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2954 SDG#: DE063-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:29	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:06	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:06	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 02:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 20:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11028243201A	02/01/2011 22:27	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-295-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185953
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2959 SDG#: DE063-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-295-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185953
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2959 SDG#: DE063-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.96	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.94	J	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-295-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185953
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2959 SDG#: DE063-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.85	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The surrogate data is outside the project limits but within Lancaster Laboratory's limits. There is no impact on the data. The results are reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		5.82	23.2		1
07914	Boron	7440-42-8	1.03	U	1.03	5.79		1
01650	Calcium	7440-70-2	10,900		7.10	23.2		1
01654	Iron	7439-89-6	33,400		27.3	116		5
01656	Lithium	7439-93-2	24.5		0.25	2.3		1
01657	Magnesium	7439-95-4	6,830		2.94	11.6		1
06958	Manganese	7439-96-5	340		0.0903	0.579		1
10145	Phosphorus	7723-14-0	317		0.648	11.6		1
01662	Potassium	7440-09-7	3,840		20.8	57.9		1
01667	Sodium	7440-23-5	237		43.2	116		1
07968	Strontium	7440-24-6	35.4		0.0718	0.579		1
06969	Tin	7440-31-5	2.10	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,270		0.440	1.16		1
10146	Zirconium	7440-67-7	5.70	J	0.973	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.368		0.0695	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.80		0.0926	0.463		2
06126	Barium	7440-39-3	130		0.125	0.463		2
06127	Beryllium	7440-41-7	0.839		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.966		0.0463	0.116		2
06131	Chromium	7440-47-3	31.9		0.139	0.463		2
06132	Cobalt	7440-48-4	8.98		0.0232	0.116		2
06133	Copper	7440-50-8	14.3		0.0764	0.463		2
06135	Lead	7439-92-1	10.2		0.0120	0.232		2
06138	Molybdenum	7439-98-7	0.455		0.0579	0.116		2
06139	Nickel	7440-02-0	17.4		0.116	0.463		2
06141	Selenium	7782-49-2	0.168	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0409	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.357		0.0347	0.116		2
06148	Vanadium	7440-62-2	60.2		0.0255	0.116		2
06149	Zinc	7440-66-6	72.9		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-295-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185953
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2959 SDG#: DE063-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0740 J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	346	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 11:10	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/26/2011 19:53	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 09:02	Lindsey K Lafferty	1

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Sample Description: SL-295-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185953
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2959 SDG#: DE063-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 13:39	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:16	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:16	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 02:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 21:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11028243201A	02/01/2011 22:40	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182101B	01/21/2011 09:00	Michelle L Lalli	1

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Sample Description: **SL-295-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185953
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2959 SDG#: DE063-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039401B	01/21/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.99
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.99
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.99
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.99
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.99
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		0.99
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.99
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.99
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.99
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.99
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.99
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.99
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.99
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.99
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.99
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.99
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.99
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.99
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.99
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.99
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		0.99
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		0.99
06192	Methylene Chloride	75-09-2	0.41	J	0.27	4.5		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.99

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.99
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		0.99
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.99
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.99
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.01
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	41.5		19.0	38.0		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 22.9 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1

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Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.85
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1

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Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.75	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1

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Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	400	J	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,500		5.57	22.1		1
07914	Boron	7440-42-8	0.985	U	0.985	5.54		1
01650	Calcium	7440-70-2	2,970		6.79	22.1		1
01654	Iron	7439-89-6	24,200		5.21	22.1		1
01656	Lithium	7439-93-2	24.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,620		2.81	11.1		1
06958	Manganese	7439-96-5	277		0.0863	0.554		1
10145	Phosphorus	7723-14-0	190		0.620	11.1		1
01662	Potassium	7440-09-7	1,320		19.9	55.4		1
01667	Sodium	7440-23-5	133		41.3	111		1
07968	Strontium	7440-24-6	21.0		0.0686	0.554		1
06969	Tin	7440-31-5	2.71	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,200		0.421	1.11		1
10146	Zirconium	7440-67-7	3.71	J	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.12		0.0903	0.452		2
06126	Barium	7440-39-3	76.4		0.122	0.452		2
06127	Beryllium	7440-41-7	0.662		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0859	J	0.0452	0.113		2
06131	Chromium	7440-47-3	20.9		0.135	0.452		2
06132	Cobalt	7440-48-4	5.50		0.0226	0.113		2
06133	Copper	7440-50-8	7.37		0.0745	0.452		2
06135	Lead	7439-92-1	6.93		0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.436		0.0564	0.113		2

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Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	10.3		0.113	0.452		2
06141	Selenium	7782-49-2	0.197	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0508	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.329		0.0339	0.113		2
06148	Vanadium	7440-62-2	41.6		0.0248	0.113		2
06149	Zinc	7440-66-6	47.4		0.632	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0113	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	361		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-118-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S1184 SDG#: DE063-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011 01:17	Laura M Krieger	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 20:45	Jason M Long	22.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:41	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011 13:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011 12:42	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11020SLE026	02/08/2011 10:23	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 11:45	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/26/2011 23:05	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11020SLE026	01/21/2011 10:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34B	01/21/2011 17:21	Marie D John	21.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:41	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 09:54	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/21/2011 00:20	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 09:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 06:19	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 07:15	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 22:52	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/21/2011 23:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 13:42	Joanne M Gates	1

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Sample Description: SL-118-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:19	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:19	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 03:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11031031201A	02/02/2011 03:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 21:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11028243201A	02/01/2011 22:58	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:08	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1

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Sample Description: **SL-118-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185954
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1184 SDG#: DE063-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Sample Description: **SL-118-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1188 SDG#: DE063-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.99
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.99
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.99
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.99
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.99
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.99
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		0.99
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		0.99
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		0.99
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.99
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.99
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.99
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.99
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.99
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.99
06192	Methylene Chloride	75-09-2	0.42	J	0.27	4.4		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.99

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Sample Description: SL-118-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1188 SDG#: DE063-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.99
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.99
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		25.51
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-118-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1188 SDG#: DE063-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1

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Sample Description: SL-118-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1188 SDG#: DE063-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.75
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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S1188 SDG#: DE063-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.51	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.47	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	350	J	110	560		1

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Sample Description: SL-118-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
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S1188 SDG#: DE063-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.59	22.2		1
07914	Boron	7440-42-8	7.36	J	4.94	27.8		5
	Reporting limits were raised due to interference from the sample matrix.							
01650	Calcium	7440-70-2	7,320		6.81	22.2		1
01654	Iron	7439-89-6	45,700		26.2	111		5
01656	Lithium	7439-93-2	53.5		0.24	2.2		1
01657	Magnesium	7439-95-4	8,950		2.82	11.1		1
06958	Manganese	7439-96-5	364		0.0867	0.556		1
10145	Phosphorus	7723-14-0	621		0.622	11.1		1
01662	Potassium	7440-09-7	2,850		20.0	55.6		1
01667	Sodium	7440-23-5	242		41.4	111		1
07968	Strontium	7440-24-6	29.6		0.0689	0.556		1
06969	Tin	7440-31-5	4.05	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,150		0.422	1.11		1
10146	Zirconium	7440-67-7	4.17	J	0.933	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0880	0.440		2
06126	Barium	7440-39-3	132		0.119	0.440		2
06127	Beryllium	7440-41-7	1.45		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.201		0.0440	0.110		2
06131	Chromium	7440-47-3	36.0		0.132	0.440		2
06132	Cobalt	7440-48-4	11.7		0.0220	0.110		2
06133	Copper	7440-50-8	23.1		0.0726	0.440		2
06135	Lead	7439-92-1	16.8		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.443		0.0550	0.110		2
06139	Nickel	7440-02-0	25.1		0.110	0.440		2
06141	Selenium	7782-49-2	0.0755	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.169		0.0132	0.110		2
06145	Thallium	7440-28-0	0.392		0.0330	0.110		2

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Sample Description: SL-118-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S1188 SDG#: DE063-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	58.0		0.0242	0.110		2
06149	Zinc	7440-66-6	116		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0195	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	360		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.13		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-118-SA5B-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-118-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1188 SDG#: DE063-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011 01:40	Laura M Krieger	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 21:05	Jason M Long	25.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:53	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011 12:54	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11020SLE026	01/30/2011 09:22	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 12:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/26/2011 23:37	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11020SLE026	01/21/2011 10:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34B	01/21/2011 17:57	Marie D John	24.75
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:54	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 10:36	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/21/2011 00:30	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 10:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 06:44	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 08:14	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 23:10	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/22/2011 00:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 13:46	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 13:46	Joanne M Gates	5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1188 SDG#: DE063-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:41	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:22	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:22	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 03:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11031031201A	02/02/2011 03:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 21:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11028243201A	02/01/2011 23:04	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:11	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1

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Sample Description: **SL-118-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185955
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1188 SDG#: DE063-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Sample Description: SL-116-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SS116 SDG#: DE063-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.86
06192	Methylene Chloride	75-09-2	0.40	J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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Sample Description: SL-116-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SS116 SDG#: DE063-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.19
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-116-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SS116 SDG#: DE063-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Sample Description: SL-116-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SS116 SDG#: DE063-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1

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Sample Description: SL-116-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SS116 SDG#: DE063-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.50	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.3	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.4		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	280	J	110	570		1

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Sample Description: SL-116-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SS116 SDG#: DE063-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.66	22.5		1
07914	Boron	7440-42-8	1.00	U	1.00	5.63		1
01650	Calcium	7440-70-2	4,040		6.90	22.5		1
01654	Iron	7439-89-6	28,800		5.30	22.5		1
01656	Lithium	7439-93-2	30.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,620		2.86	11.3		1
06958	Manganese	7439-96-5	354		0.0878	0.563		1
10145	Phosphorus	7723-14-0	439		0.630	11.3		1
01662	Potassium	7440-09-7	2,930		20.3	56.3		1
01667	Sodium	7440-23-5	96.8	J	42.0	113		1
07968	Strontium	7440-24-6	21.5		0.0698	0.563		1
06969	Tin	7440-31-5	3.04	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,410		0.428	1.13		1
10146	Zirconium	7440-67-7	3.83	J	0.945	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.08		0.0900	0.450		2
06126	Barium	7440-39-3	103		0.122	0.450		2
06127	Beryllium	7440-41-7	0.698		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.145		0.0450	0.113		2
06131	Chromium	7440-47-3	22.9		0.135	0.450		2
06132	Cobalt	7440-48-4	7.36		0.0225	0.113		2
06133	Copper	7440-50-8	11.0		0.0743	0.450		2
06135	Lead	7439-92-1	7.82		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.500		0.0563	0.113		2
06139	Nickel	7440-02-0	14.5		0.113	0.450		2
06141	Selenium	7782-49-2	0.125	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0266	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.313		0.0338	0.113		2
06148	Vanadium	7440-62-2	43.0		0.0248	0.113		2

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Sample Description: SL-116-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

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14420 Albemarle Point Place
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SS116 SDG#: DE063-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	71.9		0.630	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	370		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-116-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-116-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SS116 SDG#: DE063-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011 02:02	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 21:25	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:50	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011 12:51	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11020SLE026	01/30/2011 09:38	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 12:55	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/27/2011 00:10	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11020SLE026	01/21/2011 10:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34B	01/21/2011 16:07	Marie D John	22.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:50	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 11:19	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/21/2011 00:39	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 11:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 07:09	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 08:29	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 23:27	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/22/2011 01:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 13:49	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-116-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SS116 SDG#: DE063-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:25	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:25	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 04:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11031031201A	02/02/2011 04:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 22:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11028243201A	02/01/2011 23:17	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:13	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1

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Sample Description: **SL-116-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185956
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SS116 SDG#: DE063-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-283-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185957
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2834 SDG#: DE063-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.7		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.8		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.85
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.85
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.8		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.85
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.85
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.85
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.8		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.8		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.85
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.85
06192	Methylene Chloride	75-09-2	0.43	J	0.23	3.8		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.85

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Sample Description: SL-283-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185957
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2834 SDG#: DE063-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.85

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.29
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-283-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185957
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2834 SDG#: DE063-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	21	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	27	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	12	J	6.8	20		1
10138	Chrysene	218-01-9	0.59	J	0.38	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-283-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185957
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2834 SDG#: DE063-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	J	6.8	20		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.4		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.4		2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.4		2
10225	PCB-1016	12674-11-2	0.74	U	0.74	3.8		2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.8		2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.8		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.8		2
10225	PCB-1248	12672-29-6	0.74	U	0.74	3.8		2
10225	PCB-1254	11097-69-1	2.1	J	0.74	3.8		2
10225	PCB-1260	11096-82-5	1.5	J	0.74	3.8		2
10225	PCB-1262	37324-23-5	0.74	U	0.74	3.8		2
10225	PCB-1268	11100-14-4	0.74	U	0.74	3.8		2

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.66	22.5		1
07914	Boron	7440-42-8	1.00	U	1.00	5.63		1
01650	Calcium	7440-70-2	6,260		6.90	22.5		1
01654	Iron	7439-89-6	17,300		5.30	22.5		1
01656	Lithium	7439-93-2	15.6		0.25	2.3		1
01657	Magnesium	7439-95-4	3,820		2.86	11.3		1
06958	Manganese	7439-96-5	219		0.0878	0.563		1
10145	Phosphorus	7723-14-0	491		0.631	11.3		1
01662	Potassium	7440-09-7	2,430		20.3	56.3		1
01667	Sodium	7440-23-5	228		42.0	113		1
07968	Strontium	7440-24-6	44.4		0.0698	0.563		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-283-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185957
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2834 SDG#: DE063-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.22	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,020		0.428	1.13		1
10146	Zirconium	7440-67-7	5.04	J	0.946	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.66		0.0875	0.437		2
06126	Barium	7440-39-3	85.5		0.118	0.437		2
06127	Beryllium	7440-41-7	0.390		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.202		0.0437	0.109		2
06131	Chromium	7440-47-3	21.6		0.131	0.437		2
06132	Cobalt	7440-48-4	4.79		0.0219	0.109		2
06133	Copper	7440-50-8	7.45		0.0722	0.437		2
06135	Lead	7439-92-1	5.24		0.0114	0.219		2
06138	Molybdenum	7439-98-7	1.70		0.0547	0.109		2
06139	Nickel	7440-02-0	11.3		0.109	0.437		2
06141	Selenium	7782-49-2	0.112	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0197	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.171		0.0328	0.109		2
06148	Vanadium	7440-62-2	33.1		0.0241	0.109		2
06149	Zinc	7440-66-6	47.5		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	377		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.61		0.0100	0.0100		1

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Sample Description: **SL-283-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185957
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2834 SDG#: DE063-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-283-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011	02:25	Laura M Krieger	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011	21:45	Jason M Long	20.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011	12:59	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011	13:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011	13:04	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011	12:59	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011	13:30	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/27/2011	00:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011	12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011	17:35	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011	11:31	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011	16:00	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011	13:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011	00:49	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-283-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185957
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2834 SDG#: DE063-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:49	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:28	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:28	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:28	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:28	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 04:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 22:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11028243201A	02/01/2011 23:48	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-283-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185958
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2849 SDG#: DE063-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-283-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185958
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2849 SDG#: DE063-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.44	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5		2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.5		2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.8		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-283-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185958
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2849 SDG#: DE063-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.8		2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.8		2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.8		2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.8		2
10225	PCB-1254	11097-69-1	3.7	J	0.75	3.8		2
10225	PCB-1260	11096-82-5	0.75	U	0.75	3.8		2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.8		2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.8		2
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.69	22.6		1
07914	Boron	7440-42-8	1.01	U	1.01	5.66		1
01650	Calcium	7440-70-2	8,960		6.93	22.6		1
01654	Iron	7439-89-6	19,200		5.33	22.6		1
01656	Lithium	7439-93-2	17.7		0.25	2.3		1
01657	Magnesium	7439-95-4	4,060		2.87	11.3		1
06958	Manganese	7439-96-5	258		0.0882	0.566		1
10145	Phosphorus	7723-14-0	437		0.633	11.3		1
01662	Potassium	7440-09-7	2,730		20.4	56.6		1
01667	Sodium	7440-23-5	280		42.2	113		1
07968	Strontium	7440-24-6	47.3		0.0701	0.566		1
06969	Tin	7440-31-5	1.90	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,170		0.430	1.13		1
10146	Zirconium	7440-67-7	4.81	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.98		0.0887	0.444		2
06126	Barium	7440-39-3	86.3		0.120	0.444		2
06127	Beryllium	7440-41-7	0.442		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.238		0.0444	0.111		2
06131	Chromium	7440-47-3	19.6		0.133	0.444		2
06132	Cobalt	7440-48-4	5.20		0.0222	0.111		2
06133	Copper	7440-50-8	8.16		0.0732	0.444		2
06135	Lead	7439-92-1	7.28		0.0115	0.222		2
06138	Molybdenum	7439-98-7	1.08		0.0555	0.111		2
06139	Nickel	7440-02-0	11.1		0.111	0.444		2
06141	Selenium	7782-49-2	0.122	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0271	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.238		0.0333	0.111		2
06148	Vanadium	7440-62-2	33.4		0.0244	0.111		2
06149	Zinc	7440-66-6	49.5		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-283-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185958
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2849 SDG#: DE063-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	361		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 14:05	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/27/2011 01:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 11:49	Lindsey K Lafferty	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-283-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185958
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2849 SDG#: DE063-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 13:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:53	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:31	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:31	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:31	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:31	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 04:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 23:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11028243201A	02/01/2011 23:54	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-283-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185958
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2849 SDG#: DE063-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-280-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185959
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2804 SDG#: DE063-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.9
06192	Methylene Chloride	75-09-2	0.40	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: **SL-280-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185959
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2804 SDG#: DE063-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.4
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: **SL-280-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185959
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2804 SDG#: DE063-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.84	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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Sample Description: SL-280-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185959
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2804 SDG#: DE063-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.54	22.0		1
07914	Boron	7440-42-8	0.980	U	0.980	5.51		1
01650	Calcium	7440-70-2	2,360		6.75	22.0		1
01654	Iron	7439-89-6	25,100		5.19	22.0		1
01656	Lithium	7439-93-2	23.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,290		2.80	11.0		1
06958	Manganese	7439-96-5	228		0.0859	0.551		1
10145	Phosphorus	7723-14-0	210		0.617	11.0		1
01662	Potassium	7440-09-7	2,070		19.8	55.1		1
01667	Sodium	7440-23-5	202		41.1	110		1
07968	Strontium	7440-24-6	22.8		0.0683	0.551		1
06969	Tin	7440-31-5	2.66	J	1.10	11.0		1

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Sample Description: SL-280-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185959
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2804 SDG#: DE063-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,320		0.419	1.10		1
10146	Zirconium	7440-67-7	3.67	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.96		0.0881	0.441		2
06126	Barium	7440-39-3	97.8		0.119	0.441		2
06127	Beryllium	7440-41-7	0.730		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0733	J	0.0441	0.110		2
06131	Chromium	7440-47-3	19.5		0.132	0.441		2
06132	Cobalt	7440-48-4	5.70		0.0220	0.110		2
06133	Copper	7440-50-8	6.72		0.0727	0.441		2
06135	Lead	7439-92-1	6.94		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.628		0.0551	0.110		2
06139	Nickel	7440-02-0	10.1		0.110	0.441		2
06141	Selenium	7782-49-2	0.117	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0281	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.267		0.0330	0.110		2
06148	Vanadium	7440-62-2	40.3		0.0242	0.110		2
06149	Zinc	7440-66-6	45.6		0.617	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0083	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	361		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Sample Description: **SL-280-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185959
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2804 SDG#: DE063-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-280-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011	02:47	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011	22:05	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011	12:57	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011	13:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011	13:04	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011	12:57	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011	14:39	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/27/2011	01:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011	12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011	17:35	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011	12:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011	16:00	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011	13:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011	00:57	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-280-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185959
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2804 SDG#: DE063-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 00:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 00:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 00:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:35	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:35	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201A	02/02/2011 04:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202A	01/28/2011 23:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11028243201A	02/02/2011 00:13	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201A	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202A	01/26/2011 13:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-280-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185960
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2809 SDG#: DE063-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-280-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185960
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2809 SDG#: DE063-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.							
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: bis(2-ethylhexyl)phthalate							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-280-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185960
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2809 SDG#: DE063-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59	U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.62	U	0.62	2.0		1
10225	PCB-1242	53469-21-9	0.59	U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	32,000		5.84	23.2		1
07914	Boron	7440-42-8	1.03	U	1.03	5.81		1
01650	Calcium	7440-70-2	17,100		7.12	23.2		1
01654	Iron	7439-89-6	38,500		27.4	116		5
01656	Lithium	7439-93-2	26.5		0.26	2.3		1
01657	Magnesium	7439-95-4	8,000		2.95	11.6		1
06958	Manganese	7439-96-5	402		0.0906	0.581		1
10145	Phosphorus	7723-14-0	438		0.650	11.6		1
01662	Potassium	7440-09-7	4,680		20.9	58.1		1
01667	Sodium	7440-23-5	296		43.3	116		1
07968	Strontium	7440-24-6	42.4		0.0720	0.581		1
06969	Tin	7440-31-5	2.81	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,470		0.441	1.16		1
10146	Zirconium	7440-67-7	7.49		0.976	5.81		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.282		0.0704	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.91		0.0938	0.469		2
06126	Barium	7440-39-3	135		0.127	0.469		2
06127	Beryllium	7440-41-7	0.826		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.251		0.0469	0.117		2
06131	Chromium	7440-47-3	34.7		0.141	0.469		2
06132	Cobalt	7440-48-4	8.70		0.0235	0.117		2
06133	Copper	7440-50-8	15.4		0.0774	0.469		2
06135	Lead	7439-92-1	10.0		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.515		0.0587	0.117		2
06139	Nickel	7440-02-0	18.0		0.117	0.469		2
06141	Selenium	7782-49-2	0.138	J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0454	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.331		0.0352	0.117		2
06148	Vanadium	7440-62-2	60.8		0.0258	0.117		2
06149	Zinc	7440-66-6	75.3		0.657	3.52		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-280-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185960
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2809 SDG#: DE063-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0047 J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.23	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 15:14	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/27/2011 02:16	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 17:07	Richard A Shober	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-280-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185960
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2809 SDG#: DE063-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 12:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 14:03	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:38	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:38	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201B	02/02/2011 05:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202B	01/28/2011 23:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11028243201A	02/02/2011 00:25	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201B	01/31/2011 13:35	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-280-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185960
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2809 SDG#: DE063-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202B	01/26/2011 13:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Sample Description: SL-115-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185961
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL115 SDG#: DE063-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.91
06192	Methylene Chloride	75-09-2	0.37	J	0.24	4.0		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.91

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-115-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185961
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL115 SDG#: DE063-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.91

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.23
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.9		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-115-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185961
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL115 SDG#: DE063-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1

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Sample Description: SL-115-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185961
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL115 SDG#: DE063-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.23
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185961
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

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Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL115 SDG#: DE063-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.57	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The surrogate data is outside the project limits but within Lancaster Laboratory's limits. There is no impact on the data. The results are reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.55	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	6.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	26		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1

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Sample Description: SL-115-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185961
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL115 SDG#: DE063-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	260	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.46	21.7		1
07914	Boron	7440-42-8	0.965	U	0.965	5.42		1
01650	Calcium	7440-70-2	3,440		6.65	21.7		1
01654	Iron	7439-89-6	23,200		5.11	21.7		1
01656	Lithium	7439-93-2	22.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,520		2.75	10.8		1
06958	Manganese	7439-96-5	305		0.0846	0.542		1
10145	Phosphorus	7723-14-0	374		0.607	10.8		1
01662	Potassium	7440-09-7	2,780		19.5	54.2		1
01667	Sodium	7440-23-5	104	J	40.5	108		1
07968	Strontium	7440-24-6	21.1		0.0672	0.542		1
06969	Tin	7440-31-5	2.73	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,230		0.412	1.08		1
10146	Zirconium	7440-67-7	3.40	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.301		0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.02		0.0851	0.425		2
06126	Barium	7440-39-3	109		0.115	0.425		2
06127	Beryllium	7440-41-7	0.619		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.179		0.0425	0.106		2
06131	Chromium	7440-47-3	20.6		0.128	0.425		2
06132	Cobalt	7440-48-4	7.49		0.0213	0.106		2
06133	Copper	7440-50-8	10.6		0.0702	0.425		2
06135	Lead	7439-92-1	6.87		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.557		0.0532	0.106		2

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Sample Description: SL-115-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185961
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL115 SDG#: DE063-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	13.5		0.106	0.425		2
06141	Selenium	7782-49-2	0.105	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0257	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.302		0.0319	0.106		2
06148	Vanadium	7440-62-2	39.7		0.0234	0.106		2
06149	Zinc	7440-66-6	61.2		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0047	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	377		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-115-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

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SL115 SDG#: DE063-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011 03:10	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 22:25	Jason M Long	23.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:47	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011 12:48	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11020SLE026	01/30/2011 09:55	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 15:49	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/27/2011 02:47	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11020SLE026	01/21/2011 10:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34B	01/21/2011 16:45	Marie D John	23.23
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:47	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 12:01	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/21/2011 00:49	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 12:45	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 07:59	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 08:43	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/20/2011 23:44	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/22/2011 02:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/26/2011 13:55	Joanne M Gates	1

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SL-115-SA5B-SB-4.0-5.0

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Account # 13013

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SL115 SDG#: DE063-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:41	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:41	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:41	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:41	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201B	02/02/2011 05:57	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11031031201B	02/02/2011 05:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202B	01/29/2011 01:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11028243201A	02/02/2011 00:38	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201B	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202B	01/26/2011 13:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-115-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185961
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL115 SDG#: DE063-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-114-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185962
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE063-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.02
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.02
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.02
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.02
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.6		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.4		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.02
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.02
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.02
06192	Freon 133a	75-88-7	0.55	U	0.55	5.6		1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.02
06192	Methylene Chloride	75-09-2	0.37	J	0.27	4.4		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.02

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185962
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE063-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.02
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.02
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.02
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methyl-2-pentanone.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.15
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.1	U	18.1	36.3		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185962
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE063-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.8	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185962
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE063-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Chrysene	218-01-9	0.64	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
bis(2-ethylhexyl)phthalate

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.25
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1

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Sample Description: SL-114-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185962
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE063-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	2.1		0.36	1.8		1
10225	PCB-1260	11096-82-5	1.1	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	2.3	J	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	47		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	150		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5

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Sample Description: SL-114-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185962
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE063-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	280	J	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.37	21.3		1
07914	Boron	7440-42-8	0.949	U	0.949	5.33		1
01650	Calcium	7440-70-2	3,130		6.54	21.3		1
01654	Iron	7439-89-6	23,400		5.02	21.3		1
01656	Lithium	7439-93-2	21.8		0.23	2.1		1
01657	Magnesium	7439-95-4	4,650		2.71	10.7		1
06958	Manganese	7439-96-5	300		0.0832	0.533		1
10145	Phosphorus	7723-14-0	385		0.597	10.7		1
01662	Potassium	7440-09-7	2,910		19.2	53.3		1
01667	Sodium	7440-23-5	111		39.8	107		1
07968	Strontium	7440-24-6	22.4		0.0661	0.533		1
06969	Tin	7440-31-5	2.55	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,290		0.405	1.07		1
10146	Zirconium	7440-67-7	3.54	J	0.896	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.89		0.0862	0.431		2
06126	Barium	7440-39-3	109		0.116	0.431		2
06127	Beryllium	7440-41-7	0.566		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.151		0.0431	0.108		2
06131	Chromium	7440-47-3	19.5		0.129	0.431		2
06132	Cobalt	7440-48-4	6.19		0.0215	0.108		2
06133	Copper	7440-50-8	10.0		0.0711	0.431		2
06135	Lead	7439-92-1	6.17		0.0112	0.215		2

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Sample Description: SL-114-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185962
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE063-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.571		0.0539	0.108		2
06139	Nickel	7440-02-0	12.3		0.108	0.431		2
06141	Selenium	7782-49-2	0.0928	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0357	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.259		0.0323	0.108		2
06148	Vanadium	7440-62-2	39.5		0.0237	0.108		2
06149	Zinc	7440-66-6	58.7		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.4		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	418		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.65		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL114 SDG#: DE063-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110191AA	01/20/2011 03:32	Laura M Krieger	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110192AA	01/19/2011 22:44	Jason M Long	26.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:44	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201101923539	01/19/2011 13:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201101923539	01/19/2011 13:05	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201101923539	01/19/2011 12:45	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11020SLE026	01/30/2011 10:11	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLC026	01/27/2011 16:24	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11021SLC026	01/27/2011 03:19	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11020SLE026	01/21/2011 10:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11021SLC026	01/22/2011 12:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11025SLC026	01/25/2011 17:35	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34B	01/21/2011 18:34	Marie D John	25.25
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201101923539	01/19/2011 12:44	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 12:44	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110190005A	01/21/2011 00:58	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110210012A	01/28/2011 13:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110210012A	01/21/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110190005A	01/19/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110190022A	01/24/2011 08:55	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110190020A	01/20/2011 08:58	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110190002A	01/21/2011 00:02	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110190021A	01/22/2011 04:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110190022A	01/20/2011 01:55	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	110190021A	01/20/2011 01:55	Roman Kuropatkin	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110190002A	01/20/2011 14:00	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110190020A	01/19/2011 18:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1

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SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

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LLI Group # 1229557
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SL114 SDG#: DE063-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 14:16	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:44	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:44	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:44	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:44	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11031031201B	02/02/2011 06:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11031031201B	02/02/2011 06:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11026621202B	01/29/2011 01:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11028243201A	02/02/2011 00:44	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11031031201B	01/31/2011 13:35	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11026621202B	01/26/2011 13:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11021182102A	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402A	01/21/2011 10:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-114-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185962
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL114 SDG#: DE063-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11028243201A	01/28/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-011811 Water**
SSFL Area IV Collocated Soil Sampling
TB-011811

LLI Sample # WW 6185963
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 08:00

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB118 SDG#: DE063-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-011811 Water
SSFL Area IV Collocated Soil Sampling
TB-011811

LLI Sample # WW 6185963
LLI Group # 1229557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 08:00

Submitted: 01/19/2011 09:40
Reported: 02/09/2011 12:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB118 SDG#: DE063-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110202AA	01/20/2011	15:11	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110191AA	01/19/2011	11:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110191AA	01/19/2011	11:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110202AA	01/20/2011	15:11	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11020B20A	01/20/2011	20:40	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11020B20A	01/20/2011	20:40	Butch A Sokolowski	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110191AA	Sample number(s): 6185950,6185952,6185954-6185957,6185959,6185961-6185962									
Acetone	6.7	U	6.7	8.0	ug/kg	106	104	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	96	96	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	90	90	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103	102	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91	89	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	97	94	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	65	67	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	86	85	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	87	88	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	85	87	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	83	85	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99	98	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96	95	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	66	68	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	78	80	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	97	96	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	64	68	54-132	5	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	90	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	90	79-120	0	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	102	104	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	76	78	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	94	93	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	93	92	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96	94	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	93	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	91	90	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92	92	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	56	57	20-120	3	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	92	93	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	91	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	95	94	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	97	97	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101	100	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89	89	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	86	87	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98	97	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	90	90	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	80	80	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	79	80	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	90	90	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	95	95	61-126	1	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	91	93	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91	91	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	60	59	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88	89	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	87	88	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90	90	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	61	60*	61-134	3	30
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	90	91	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	89	89	77-120	0	30
Styrene	0.10	U	0.10	4.0	ug/kg	94	93	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	97	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	83	81	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105	102	77-120	2	30
Toluene	0.21	J	0.08	4.0	ug/kg	94	95	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87	88	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	80	82	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	96	94	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	95	93	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	94	94	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	83	81	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	85	86	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	89	89	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	88	89	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	68	71	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96	94	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	86	86	80-120	0	30
Batch number: E110191AA	Sample number(s): 6185963									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	108	60-132	3	30
Batch number: E110192AA	Sample number(s): 6185950,6185952,6185954-6185957,6185959,6185961-6185962									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	101	99	70-130	2	30
Batch number: Y110202AA	Sample number(s): 6185963									
Acetone	6	U	6.	20	ug/l	159	164	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	99	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	100	100	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	108	106	80-120	2	30
Bromoform	1	U	1.	5	ug/l	93	93	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	112	111	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	126	126	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	101	102	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	105	104	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	106	105	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	98	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	116	115	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	101	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	110	107	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	112	113	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	101	101	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	101	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	63	64	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	107	110	66-120	3	30
Dibromochloromethane	1	U	1.	5	ug/l	97	98	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	100	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	106	102	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	98	98	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	104	102	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	100	79-120	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	119	119	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	97	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	104	104	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	108	107	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	104	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	97	97	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	102	103	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	101	79-120	1	30
Freon 113	2	U	2.	10	ug/l	95	95	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	82	80	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	92	92	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	115	117	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	100	99	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	104	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	103	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	103	103	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	95	100	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	106	105	80-120	0	30
Styrene	1	U	1.	5	ug/l	98	99	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	97	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	104	71-120	3	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	94	95	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	99	100	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	98	100	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	97	98	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	96	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	99	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	99	100	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	112	111	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	105	107	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	106	105	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	103	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	96	97	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	95	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
Batch number: 11020SLE026	Sample number(s): 6185954-6185956,6185961-6185962									
N-Nitrosodimethylamine	22.9	J	16.7	33.3	ng/kg	95		70-130		
Batch number: 11021SLC026	Sample number(s): 6185950-6185962									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	109		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	105		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	105		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	124		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	125		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	131		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	118		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	120		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	105		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	133		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	118		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	113		70-130		
Bis(2-Ethylhexyl)phthalate	8.7	J	6.0	18	ug/kg	145*		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	111		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	132		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	102		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	98		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	130		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 11025SLC026	Sample number(s): 6185950-6185962									
Aniline	170 U		170.	500	ug/kg	47		10-107		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	44		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	93		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	82		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	85		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	83		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	86		67-125		
Benzoic acid	170 U		170.	500	ug/kg	77		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	37		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	100		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	82		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Chrysene	17	U	17.	170	ug/kg	93		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	36*		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	113		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	75		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	68		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	95		75-117		
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	94		46-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	84		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	92		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	106		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	77		35-106		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	98		58-112		
Pyrene	17	U	17.	170	ug/kg	98		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11019A34B	Sample number(s): 6185954-6185956,6185961-6185962									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	73	67-119	1	30
Batch number: 11020B20A	Sample number(s): 6185963									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	118	75-135	8	30
Batch number: 110220004A	Sample number(s): 6185954-6185956,6185961-6185962									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	104		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	97	101	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	101	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	103		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100	U	100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	100		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	101		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800	U	800.	2,400	ug/kg	108		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	102		80-120		
Batch number: 110190005A	Sample number(s): 6185954-6185956,6185961-6185962									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	97		80-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110200023A	Sample number(s): 6185950,6185960									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110210012A	Sample number(s): 6185950-6185962									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	84	75-125	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	81		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110190022A	Sample number(s): 6185954-6185956,6185961-6185962									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		66-113		
Batch number: 110190002A	Sample number(s): 6185954-6185956,6185961-6185962									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	92		75-125		
Batch number: 110190020A	Sample number(s): 6185954-6185956,6185961-6185962									
Ethanol	100	U	100.	500	ug/kg	95		75-112		
Isopropanol	100	U	100.	500	ug/kg	94		75-125		
Methanol	100	U	100.	500	ug/kg	93		75-134		
Batch number: 110190021A	Sample number(s): 6185954-6185956,6185961-6185962									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
Batch number: 110211026001A	Sample number(s): 6185950-6185962									
Antimony	0.0600	U	0.0600	0.200	mg/kg	124		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	106		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	97		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	100		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	106		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	101		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 110211026001B	Sample number(s): 6185950-6185962									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Selenium	0.0400	U	0.0400	0.400	mg/kg	103		79-122		
Batch number: 110211026001C	Sample number(s): 6185950-6185962									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 110211026001D	Sample number(s): 6185950-6185962									
Barium	0.108	U	0.108	0.400	mg/kg	102		79-121		
Batch number: 110215708002	Sample number(s): 6185950-6185962									
Aluminum	5.03	U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	90		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	6.17	J	4.71	20.0	mg/kg	107		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	108		81-119		
Phosphorus	1.61	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		79-121		
Tin	1.05	J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	104		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110215711002	Sample number(s): 6185950-6185962									
Mercury	0.0028	U	0.0028	0.0976	mg/kg	105		88-123		
Batch number: 11026621202A	Sample number(s): 6185950-6185959									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11026621202B	Sample number(s): 6185960-6185962									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11028102201A	Sample number(s): 6185954-6185956,6185961-6185962									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11028243201A	Sample number(s): 6185950-6185962									
3a Cr VI by EPA 7199	0.25	J	0.20	1.0	mg/kg	87		80-120		
Batch number: 11031031201A	Sample number(s): 6185950-6185959									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11031031201B	Sample number(s): 6185960-6185962									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11021039401B	Sample number(s): 6185950-6185953									
22a pH by 9045C						100		95-105		
Batch number: 11021039402A	Sample number(s): 6185954-6185962									
22a pH by 9045C						100		95-105		
Batch number: 11021182101B	Sample number(s): 6185950-6185953									
32a OR Potential						99		98-102		
Batch number: 11021182102A	Sample number(s): 6185954-6185962									
32a OR Potential						99		98-102		

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Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11026162402A	Sample number(s): 6185950-6185953,6185957-6185960								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11032162401A	Sample number(s): 6185954-6185956,6185961-6185962								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110191AA	Sample number(s): 6185950,6185952,6185954-6185957,6185959,6185961-6185962 UNSPK: P185284								
Acetone	99		15-210						
Benzene	92		55-143						
Bromobenzene	79		43-139						
Bromochloromethane	95		60-137						
Bromodichloromethane	86		53-136						
Bromoform	89		38-124						
Bromomethane	58		42-168						
2-Butanone	76		37-163						
n-Butylbenzene	62		30-146						
sec-Butylbenzene	64		33-157						
tert-Butylbenzene	66		41-152						
Carbon Tetrachloride	100		45-153						
Chlorobenzene	85		49-135						
Chloroethane	58		39-152						
2-Chloroethyl Vinyl Ether	70		32-139						
Chloroform	96		61-142						
Chloromethane	59		51-163						
2-Chlorotoluene	72		42-146						
4-Chlorotoluene	72		39-145						
1,2-Dibromo-3-chloropropane	65		30-139						
Dibromochloromethane	91		51-128						
1,2-Dibromoethane	87		54-129						
Dibromomethane	90		57-130						
1,2-Dichlorobenzene	79		36-133						
1,3-Dichlorobenzene	74		34-134						
1,4-Dichlorobenzene	75		35-136						
Dichlorodifluoromethane	50		26-151						
1,1-Dichloroethane	91		63-142						
1,2-Dichloroethane	90		68-131						
1,1-Dichloroethene	98		61-149						
cis-1,2-Dichloroethene	95		60-136						
trans-1,2-Dichloroethene	100		59-142						
1,2-Dichloropropane	84		62-135						
1,3-Dichloropropane	81		58-129						
2,2-Dichloropropane	95		53-147						
1,1-Dichloropropene	88		54-145						
cis-1,3-Dichloropropene	72		51-131						
trans-1,3-Dichloropropene	73		49-129						

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	75		44-141						
Freon 113	101		56-156						
Hexachlorobutadiene	62		10-155						
2-Hexanone	52		32-160						
Isopropylbenzene	69		38-144						
p-Isopropyltoluene	64		29-152						
Methyl Tertiary Butyl Ether	81		55-129						
4-Methyl-2-pentanone	54		46-139						
Methylene Chloride	87		61-141						
n-Propylbenzene	70		39-157						
Styrene	79		35-134						
1,1,1,2-Tetrachloroethane	92		52-130						
1,1,2,2-Tetrachloroethane	77		40-152						
Tetrachloroethene	93		42-149						
Toluene	87		50-146						
1,2,3-Trichlorobenzene	67		10-140						
1,2,4-Trichlorobenzene	59		10-136						
1,1,1-Trichloroethane	94		64-142						
1,1,2-Trichloroethane	89		54-139						
Trichloroethene	88		53-144						
Trichlorofluoromethane	78		47-163						
1,2,3-Trichloropropane	78		45-154						
1,2,4-Trimethylbenzene	69		37-149						
1,3,5-Trimethylbenzene	69		38-150						
Vinyl Chloride	63		50-154						
m+p-Xylene	80		44-137						
o-Xylene	71		42-137						
Batch number: 11020SLE026	Sample number(s): 6185954-6185956,6185961-6185962 UNSPK: 6185954								
N-Nitrosodimethylamine	76	80	70-130	6	30				
Batch number: 11021SLC026	Sample number(s): 6185950-6185962 UNSPK: 6185953								
Acenaphthene	91	86	63-105	6	30				
Acenaphthylene	89	90	55-126	1	30				
Anthracene	90	88	46-136	2	30				
Benzo(a)anthracene	98	93	39-144	5	30				
Benzo(a)pyrene	117	119	34-156	1	30				
Benzo(b)fluoranthene	131	139	43-155	6	30				
Benzo(g,h,i)perylene	79	79	33-141	1	30				
Benzo(k)fluoranthene	134	117	42-144	13	30				
Butylbenzylphthalate	47*	54*	73-140	14	30				
Di-n-butylphthalate	81	89	78-160	10	30				
Chrysene	93	89	29-156	5	30				
Dibenz(a,h)anthracene	75	74	41-130	2	30				
Diethylphthalate	94	95	87-131	0	30				
Dimethylphthalate	113	98	74-118	14	30				
Bis(2-Ethylhexyl)phthalate	21*	30*	39-167	14	30				
Fluoranthene	92	85	26-166	8	30				
Fluorene	93	94	45-121	2	30				
Indeno(1,2,3-cd)pyrene	77	75	21-143	2	30				
1-Methylnaphthalene	88	87	72-123	1	30				
2-Methylnaphthalene	80	80	28-121	0	30				
Naphthalene	85	87	61-102	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	79	86	48-113	8	30				
Di-n-octylphthalate	83	78	40-192	6	30				
Phenanthrene	93	90	12-165	3	30				
Pyrene	95	88	15-153	8	30				
Batch number: 11025SLC026	Sample number(s): 6185950-6185962 UNSPK: 6185950								
Aniline	60	56	14-114	6	30				
Anthracene	96	98	75-115	2	30				
Benzidine	49	43	35-141	12	30				
Benzo(a)anthracene	97	96	65-122	1	30				
Benzo(a)pyrene	83	88	57-126	6	30				
Benzo(b)fluoranthene	86	88	59-125	3	30				
Benzo(g,h,i)perylene	84	89	59-127	6	30				
Benzo(k)fluoranthene	84	89	56-132	6	30				
Benzoic acid	58	67	10-173	14	30				
Benzyl alcohol	87	86	55-123	1	30				
4-Bromophenyl-phenylether	94	96	67-129	2	30				
Carbazole	94	96	64-120	2	30				
4-Chloro-3-methylphenol	90	95	53-130	5	30				
4-Chloroaniline	50	52	23-95	4	30				
bis(2-Chloroethoxy)methane	97	98	54-117	1	30				
bis(2-Chloroethyl)ether	93	89	60-116	4	30				
bis(2-Chloroisopropyl)ether	89	89	55-142	0	30				
2-Chloronaphthalene	87	79	50-141	9	30				
2-Chlorophenol	95	93	73-121	1	30				
4-Chlorophenyl-phenylether	92	92	64-119	1	30				
Chrysene	96	97	62-128	1	30				
Dibenzofuran	96	92	71-112	4	30				
1,2-Dichlorobenzene	88	87	66-108	1	30				
1,3-Dichlorobenzene	85	85	63-109	0	30				
1,4-Dichlorobenzene	87	86	53-113	0	30				
3,3'-Dichlorobenzidine	58	58	25-123	0	30				
2,4-Dichlorophenol	96	96	78-117	1	30				
2,4-Dimethylphenol	95	98	56-130	3	30				
3,5-Dimethylphenol	106	109	70-130	2	30				
4,6-Dinitro-2-methylphenol	80	80	10-148	0	30				
2,4-Dinitrophenol	64	61	20-143	4	30				
2,4-Dinitrotoluene	93	92	57-114	1	30				
2,6-Dinitrotoluene	93	96	69-123	3	30				
1,2-Diphenylhydrazine	109	109	71-129	0	30				
bis(2-Ethylhexyl)phthalate	104	112	63-122	7	30				
Fluoranthene	91	93	59-122	1	30				
Hexachlorobenzene	94	96	61-111	2	30				
Hexachlorobutadiene	99	97	62-120	2	30				
Hexachlorocyclopentadiene	91	82	10-153	10	30				
Hexachloroethane	88	92	57-109	5	30				
Indeno(1,2,3-cd)pyrene	83	87	61-126	5	30				
Isophorone	94	92	51-118	2	30				
2-Methylphenol	90	91	47-142	2	30				
4-Methylphenol	88	89	55-126	1	30				
2-Nitroaniline	99	98	67-125	1	30				
3-Nitroaniline	92	92	59-122	1	30				
4-Nitroaniline	73	73	52-112	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	103	102	51-114	1	30				
2-Nitrophenol	93	92	74-115	1	30				
4-Nitrophenol	100	99	39-133	0	30				
N-Nitroso-di-n-propylamine	86	86	60-116	0	30				
N-Nitrosodiphenylamine	95	99	86-145	4	30				
Pentachlorophenol	73	73	17-149	1	30				
Phenanthrene	93	97	65-125	4	30				
Phenol	95	95	58-126	0	30				
Pyrene	117	122	51-151	4	30				
1,2,4-Trichlorobenzene	93	93	72-115	0	30				
2,4,5-Trichlorophenol	94	97	34-139	3	30				
2,4,6-Trichlorophenol	102	97	49-140	4	30				
Batch number: 110220004A	Sample number(s): 6185954-6185956,6185961-6185962 UNSPK: P184383								
4-Amino-2,6-Dinitrotoluene	101	100	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	100	100	80-137	0	50				
1,3-Dinitrobenzene	99	98	38-166	1	50				
2,4-Dinitrotoluene	97	96	80-131	1	50				
2,6-Dinitrotoluene	101	100	80-127	2	50				
HMX	91	90	63-128	2	50				
Nitrobenzene	96	96	80-125	0	50				
Nitroglycerin	91	90	80-120	1	50				
2-Nitrotoluene	103	100	80-122	3	50				
3-Nitrotoluene	97	97	72-119	0	50				
4-Nitrotoluene	96	97	80-125	0	50				
PETN	106	106	80-121	0	50				
RDX	95	93	75-129	2	50				
Tetryl	90	87	55-174	3	50				
1,3,5-Trinitrobenzene	101	98	82-126	2	50				
2,4,6-Trinitrotoluene	98	97	82-130	1	50				
Batch number: 110190005A	Sample number(s): 6185954-6185956,6185961-6185962 UNSPK: P184383								
17a Formaldehyde by 8315A	26*	11*	80-120	10	50				
Batch number: 110200023A	Sample number(s): 6185950,6185960 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110210012A	Sample number(s): 6185950-6185962 UNSPK: 6185950								
PCB-1016	107	103	29-146	4	50				
PCB-1260	171*	170*	39-149	0	50				
Batch number: 110190022A	Sample number(s): 6185954-6185956,6185961-6185962 UNSPK: P184383								
EFH (C12-C14)	89	96	49-123	8	20				
EFH (C15-C20)	118	122	49-123	3	20				
EFH (C21-C30)	117	106	49-123	7	20				
EFH (C30 - C40)	82	118	49-123	15	20				
EFH (C8-C11)	65	68	49-123	4	20				
Batch number: 110190002A	Sample number(s): 6185954-6185956,6185961-6185962 UNSPK: P184383								
Diethylene glycol	84	84	59-109	0	20				
Ethylene glycol	88	86	63-107	2	20				
Propylene glycol	79	76	63-107	3	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110190020A	Sample number(s): 6185954-6185956,6185961-6185962 UNSPK: P184383								
Ethanol	79	80	24-143	2	20				
Isopropanol	80	81	75-125	1	20				
Methanol	77	79	45-136	3	20				
Batch number: 110190021A	Sample number(s): 6185954-6185956,6185961-6185962 UNSPK: P184383								
m-Terphenyl	96	97	75-125	1	20				
o-Terphenyl	98	98	75-125	1	20				
p-Terphenyl	86	86	75-125	1	20				
Batch number: 110211026001A	Sample number(s): 6185950-6185962 UNSPK: 6185950 BKG: 6185950								
Antimony	43*	42*	75-125	1	20	0.194 J	0.0796 J	84* (1)	20
Arsenic	87	103	75-125	6	20	3.94	3.78	4	20
Beryllium	87	88	75-125	1	20	0.406	0.366	10 (1)	20
Cadmium	95	92	75-125	2	20	0.141	0.134	5 (1)	20
Chromium	88	93	75-125	2	20	18.4	17.5	5	20
Cobalt	92	92	75-125	0	20	4.52	4.47	1	20
Copper	81	83	75-125	2	20	7.41	6.69	10	20
Lead	102	130*	75-125	11	20	4.40	4.25	3	20
Nickel	93	98	75-125	3	20	9.81	10.0	2	20
Silver	99	100	75-125	1	20	0.0229 J	0.0208 J	10 (1)	20
Thallium	90	96	75-125	5	20	0.201	0.206	2 (1)	20
Vanadium	87	100	75-125	4	20	30.5	28.9	5	20
Zinc	59 (2)	79 (2)	75-125	4	20	43.9	44.3	1	20
Batch number: 110211026001B	Sample number(s): 6185950-6185962 UNSPK: 6185950 BKG: 6185950								
Selenium	92	92	75-125	1	20	0.155 J	0.124 J	22* (1)	20
Batch number: 110211026001C	Sample number(s): 6185950-6185962 UNSPK: 6185950 BKG: 6185950								
Molybdenum	97	99	75-125	3	20	1.17	1.20	3	20
Batch number: 110211026001D	Sample number(s): 6185950-6185962 UNSPK: 6185950 BKG: 6185950								
Barium	24 (2)	63 (2)	75-125	5	20	77.3	74.4	4	20
Batch number: 110215708002	Sample number(s): 6185950-6185962 UNSPK: 6185950 BKG: 6185950								
Aluminum	1949 (2)	1870 (2)	75-125	1	20	12,100	12,500	3	20
Boron	95	97	84-115	2	20	0.873 U	0.864 U	0 (1)	20
Calcium	327 (2)	242 (2)	75-125	5	20	5,110	5,720	11	20
Iron	1533 (2)	-928 (2)	75-125	13	20	17,700	16,600	6	20
Lithium	102	102	82-114	0	20	14.0	15.2	9	20
Magnesium	315 (2)	269 (2)	75-125	2	20	3,490	3,630	4	20
Manganese	142 (2)	148 (2)	75-125	1	20	210	230	9	20
Phosphorus	132 (2)	112 (2)	75-125	4	20	398	431	8	20
Potassium	136*	132*	75-125	1	20	2,220	2,360	6	20
Sodium	99	98	75-125	1	20	200	193	4 (1)	20
Strontium	100	100	75-115	0	20	31.3	34.3	9	20
Tin	93	93	80-110	0	20	1.89 J	1.94 J	3 (1)	20
Titanium	339 (2)	313 (2)	75-125	2	20	904	959	6	20
Zirconium	98	98	75-125	0	20	3.61 J	4.61 J	24* (1)	20
Batch number: 110215711002	Sample number(s): 6185950-6185962 UNSPK: 6185950 BKG: 6185950								

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Mercury	106	105	65-135	1	20	0.0078 J	0.0120 J	42* (1)	20
Batch number: 11026621202A	Sample number(s): 6185950-6185959 UNSPK: 6185950 BKG: 6185950								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11026621202B	Sample number(s): 6185960-6185962 UNSPK: 6185960 BKG: 6185960								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11028102201A	Sample number(s): 6185954-6185956,6185961-6185962 UNSPK: 6185954 BKG: 6185954								
21a Cyanide by 9012B	100		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11028243201A	Sample number(s): 6185950-6185962 UNSPK: 6185962 BKG: 6185962								
3a Cr VI by EPA 7199	84		75-125			0.44 J	0.59 J	30* (1)	20
Batch number: 11031031201A	Sample number(s): 6185950-6185959 UNSPK: 6185950 BKG: 6185950								
11a Anions by 300.0 - Fluoride	96		80-120			1.5	1.2	17 (1)	20
11a Anions by 300.0 - Nitrate	115		80-120			3.7	3.2	12 (1)	20
Batch number: 11031031201B	Sample number(s): 6185960-6185962 UNSPK: 6185960 BKG: 6185960								
11a Anions by 300.0 - Fluoride	62*		80-120			3.3	4.1	22* (1)	20
11a Anions by 300.0 - Nitrate	99		80-120			1.2 J	1.3 J	4 (1)	20
Batch number: 11021039401B	Sample number(s): 6185950-6185953 BKG: P185287								
22a pH by 9045C						7.87	7.86	0	1
Batch number: 11021039402A	Sample number(s): 6185954-6185962 BKG: 6185954								
22a pH by 9045C						6.20	6.21	0	1
Batch number: 11021182101B	Sample number(s): 6185950-6185953 BKG: P185287								
32a OR Potential						306	306	0	6
Batch number: 11021182102A	Sample number(s): 6185954-6185962 BKG: 6185954								
32a OR Potential						361	362	0	6
Batch number: 11026162402A	Sample number(s): 6185950-6185953,6185957-6185960 BKG: 6185960								
28a Moisture Content by 160.3						15.6	16.2	4	20
Batch number: 11032162401A	Sample number(s): 6185954-6185956,6185961-6185962 BKG: P186943								
28a Moisture Content by 160.3						2.6	2.7	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6185950	114	108	94	82

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Quality Control Summary

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Surrogate Quality Control

6185952	115	107	96	77
6185954	114	106	93	82
6185955	114	108	93	83
6185956	116	109	93	83
6185957	115	108	93	81
6185959	115	107	94	81
6185961	116	108	94	82
6185962	115	108	94	82
Blank	110	108	93	85
LCS	105	106	100	100
LCSD	102	108	100	100
MS	103	103	102	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110191AA

	Toluene-d8
6185963	102
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110192AA

	Toluene-d8
6185950	100
6185952	99
6185954	99
6185955	99
6185956	99
6185957	99
6185959	99
6185961	99
6185962	100
Blank	100
LCS	100
LCSD	100
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6185963	103	101	101	103
Blank	101	98	100	101
LCS	104	102	101	102
LCSD	103	101	101	104
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Surrogate Quality Control

Batch number: 11020SLE026

	N-Nitrosodimethylamine-d6
6185954	71
6185955	72
6185956	104
6185961	98
6185962	79
Blank	81
LCS	89
MS	98
MSD	88
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11021SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6185950	100	90	89
6185951	99	91	100
6185952	101	93	105
6185953	102	100	95
6185954	100	89	102
6185955	94	101	91
6185956	109	99	99
6185957	99	80	90
6185958	93	89	88
6185959	90	86	98
6185960	98	87	94
6185961	108	98	102
6185962	100	94	91
Blank	107	91	97
LCS	115	99	87
MS	104	88	98
MSD	106	85	85
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11025SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6185950	90	91	91	81	96	108
6185951	91	91	98	84	94	112
6185952	85	86	98	79	89	91
6185953	80	85	83	77	92	89
6185954	83	85	84	77	91	85
6185955	80	84	86	81	94	87
6185956	77	80	84	78	92	89
6185957	87	90	94	85	100	105
6185958	84	85	94	84	99	94
6185959	79	80	81	77	88	83
6185960	85	88	89	80	94	87
6185961	84	86	91	83	96	90
6185962	84	87	88	80	97	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Surrogate Quality Control

Blank	88	91	103	85	98	92
LCS	96	95	109	88	92	88
MS	91	90	103	88	93	105
MSRE	91	90	103	88	93	105
MSD	93	92	107	91	93	110
MSDRE	93	92	107	91	93	110
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11019A34B

	Trifluorotoluene-F
6185954	78
6185955	83
6185956	79
6185961	80
6185962	79
Blank	86
LCS	84
LCSD	89
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11020B20A

	Trifluorotoluene-F
6185963	79
Blank	79
LCS	124
LCSD	123
Limits:	63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110190005A

	Butyraldehyde
6185954	102
6185955	103
6185956	85
6185961	108
6185962	104
Blank	99
LCS	109
MS	113
MSD	113
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110210012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6185950	94	157*
6185951	81	129*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Surrogate Quality Control

6185952	78	139*
6185953	83	131*
6185954	85	122*
6185955	80	116
6185956	89	143*
6185957	96	142*
6185958	108	158*
6185959	101	145*
6185960	96	146*
6185961	92	138*
6185962	97	111
Blank	95	136*
LCS	95	112
LCSD	96	135*
MS	89	159*
MSD	86	145*
Limits:	53-139	45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 110220004A

	2-Nitro-m-xylene
6185954	119
6185955	115
6185956	115
6185961	112
6185962	112
Blank	124
LCS	119
LCSD	132
MS	108
MSD	109
Limits:	80-146

Analysis Name: 27a Glycols by 8015B
Batch number: 110190002A

	Tetramethylene glycol
6185954	79
6185955	68
6185956	62
6185961	63
6185962	76
Blank	101
LCS	99
MS	89
MSD	86
Limits:	29-137

Analysis Name: 25a Alcohols by 8015B
Batch number: 110190020A

	Acetone
6185954	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229557
Reported: 02/09/11 at 12:27 PM

Surrogate Quality Control

6185955	83
6185956	78
6185961	82
6185962	86
Blank	97
LCS	95
MS	76
MSD	81
Limits:	42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110190021A

	n-Triacontane-d62
6185954	105
6185955	104
6185956	105
6185961	98
6185962	109
Blank	106
LCS	101
MS	101
MSD	102
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110190022A

	Chlorobenzene	Orthoterphenyl
6185954	78	99
6185955	83	104
6185956	81	102
6185961	77	99
6185962	86	111
Blank	87	99
LCS	92	106
MS	92	105
MSD	94	107
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1229557 6185950-63

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/6/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 82606	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: *pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	*Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-296-SA5B-SB-4.0-5.0	01.18.11	1119	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X															
SL-296-SA5B-SB-4.5	01.18.11	1115	SOIL	NONE	4 ENCORES											X	X											
SL-296-SA5B-SB-9.0-10.0	01.18.11	1124	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-295-SA5B-SB-4.0-5.0	01.18.11	0944	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-295-SA5B-SB-4.5	01.18.11	0940	SOIL	NONE	4 ENCORES											X	X											
SL-295-SA5B-SB-9.0-10.0	01.18.11	0948	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-118-SA5B-SB-4.0-5.0	01.18.11	0959	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X
SL-118-SA5B-SB-4.5	01.18.11	0955	SOIL	NONE	5 ENCORES											X	X	X										
SL-118-SA5B-SB-9.0-9.0	01.18.11	1008	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X
SL-118-SA5B-SB-8.5	01.18.11	1004	SOIL	NONE	5 ENCORES											X	X	X										
SL-116-SA5B-SB-4.0-5.0	01.18.11	1209	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X
SL-116-SA5B-SB-4.5	01.18.11	1205	SOIL	NONE	5 ENCORES											X	X	X										
SL-283-SA5B-SB-4.0-5.0	01.18.11	1248	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-283-SA5B-SB-4.5	01.18.11	1245	SOIL	NONE	4 ENCORES											X	X											
SL-283-SA5B-SB-9.0-10.0	01.18.11	1253	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-280-SA5B-SB-4.0-5.0	01.18.11	1525	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-280-SA5B-SB-4.5	01.18.11	1522	SOIL	NONE	4 ENCORES											X	X											
SL-280-SA5B-SB-9.0-10.0	01.18.11	1528	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X															
SL-115-SA5B-SB-4.0-5.0	01.18.11	1559	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X
SL-115-SA5B-SB-4.5	01.18.11	1555	SOIL	NONE	5 ENCORES											X	X	X										
SL-114-SA5B-SB-4.0-5.0	01.18.11	1434	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X
SL-114-SA5B-SB-4.5	01.18.11	1430	SOIL	NONE	5 ENCORES											X	X	X										
TB-011811	01.18.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										

Relinquished by: (Signature) — Date/Time: 1/18/2011, 17:00 — Received for Laboratory by: (Signature) — 1-19-11 0940

Received by: (Signature) — Date/Time — Airbill No.(s): 8700 5935 3962, ... 4020

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/19/2011
Group Number: 1229559
SDG: DX041
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-296-SA5B-SB-4.0-5.0 Soil	6185966
SL-296-SA5B-SB-9.0-10.0 Soil	6185967
SL-295-SA5B-SB-4.0-5.0 Soil	6185968
SL-295-SA5B-SB-9.0-10.0 Soil	6185969
SL-118-SA5B-SB-4.0-5.0 Soil	6185970
SL-118-SA5B-SB-8.0-9.0 Soil	6185971
SL-116-SA5B-SB-4.0-5.0 Soil	6185972
SL-283-SA5B-SB-4.0-5.0 Soil	6185973
SL-283-SA5B-SB-9.0-10.0 Soil	6185974
SL-280-SA5B-SB-4.0-5.0 Soil	6185975
SL-280-SA5B-SB-9.0-10.0 Soil	6185976
SL-115-SA5B-SB-4.0-5.0 Soil	6185977
SL-114-SA5B-SB-4.0-5.0 Soil	6185978

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-296-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185966
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:19

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2964 SDG#: DX041-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-296-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185966
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:19

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2964 SDG#: DX041-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0156	U	0.0156	1.10	1
11031	12378-PeCDD	40321-76-4	0.107	JB	0.0186	5.49	1
11031	123478-HxCDD	39227-28-6	0.0603	JBQ	0.0187	5.49	1
11031	123678-HxCDD	57653-85-7	0.233	JB	0.0193	5.49	1
11031	123789-HxCDD	19408-74-3	0.229	JB	0.0192	5.49	1
11031	1234678-HpCDD	35822-46-9	4.66	JB	0.0236	5.49	1
11031	OCDD	3268-87-9	43.5	B	0.0218	11.0	1
11031	2378-TCDF	51207-31-9	0.0463	JBQ	0.0165	1.10	1
11031	12378-PeCDF	57117-41-6	0.111	JBQ	0.00757	5.49	1
11031	23478-PeCDF	57117-31-4	0.142	JBQ	0.00735	5.49	1
11031	123478-HxCDF	70648-26-9	0.116	JB	0.0154	5.49	1
11031	123678-HxCDF	57117-44-9	0.0982	JBQ	0.0134	5.49	1
11031	123789-HxCDF	72918-21-9	0.171	JB	0.0159	5.49	1
11031	234678-HxCDF	60851-34-5	0.125	JB	0.0150	5.49	1
11031	1234678-HpCDF	67562-39-4	0.619	JBQ	0.0127	5.49	1
11031	1234789-HpCDF	55673-89-7	0.139	JB	0.0175	5.49	1
11031	OCDF	39001-02-0	1.14	JB	0.0164	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-296-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185966
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:19

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2964 SDG#: DX041-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-296-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-4.0-5.0

LLI Sample # SW 6185966
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:19

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2964 SDG#: DX041-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 10:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-296-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185967
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2969 SDG#: DX041-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-296-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185967
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2969 SDG#: DX041-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0154	U	0.0154	1.10	1
11031	12378-PeCDD	40321-76-4	0.0942	JBQ	0.0182	5.51	1
11031	123478-HxCDD	39227-28-6	0.0335	JBQ	0.0161	5.51	1
11031	123678-HxCDD	57653-85-7	0.217	JB	0.0165	5.51	1
11031	123789-HxCDD	19408-74-3	0.228	JBQ	0.0160	5.51	1
11031	1234678-HpCDD	35822-46-9	1.95	JB	0.0224	5.51	1
11031	OCDD	3268-87-9	27.9	B	0.0213	11.0	1
11031	2378-TCDF	51207-31-9	0.0313	JB	0.0152	1.10	1
11031	12378-PeCDF	57117-41-6	0.0798	JB	0.00695	5.51	1
11031	23478-PeCDF	57117-31-4	0.134	JB	0.00684	5.51	1
11031	123478-HxCDF	70648-26-9	0.0895	JBQ	0.0132	5.51	1
11031	123678-HxCDF	57117-44-9	0.0812	JB	0.0110	5.51	1
11031	123789-HxCDF	72918-21-9	0.188	JB	0.0138	5.51	1
11031	234678-HxCDF	60851-34-5	0.0924	JB	0.0121	5.51	1
11031	1234678-HpCDF	67562-39-4	0.454	JB	0.0125	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0935	JB	0.0176	5.51	1
11031	OCDF	39001-02-0	1.20	JB	0.0191	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-296-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185967
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2969 SDG#: DX041-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-296-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-296-SA5B-SB-9.0-10.0

LLI Sample # SW 6185967
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 11:24

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2969 SDG#: DX041-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 11:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-295-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185968
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2954 SDG#: DX041-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-295-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185968
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2954 SDG#: DX041-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0226 JBQ	0.0173	1.14	1
11031	12378-PeCDD	40321-76-4	0.0351 JBQ	0.0173	5.71	1
11031	123478-HxCDD	39227-28-6	0.0485 JBQ	0.0133	5.71	1
11031	123678-HxCDD	57653-85-7	0.0621 JBQ	0.0137	5.71	1
11031	123789-HxCDD	19408-74-3	0.0960 JBQ	0.0133	5.71	1
11031	1234678-HpCDD	35822-46-9	0.283 JB	0.0200	5.71	1
11031	OCDD	3268-87-9	0.887 JB	0.0205	11.4	1
11031	2378-TCDF	51207-31-9	0.0203 JBQ	0.0127	1.14	1
11031	12378-PeCDF	57117-41-6	0.0519 JBQ	0.00629	5.71	1
11031	23478-PeCDF	57117-31-4	0.0795 JBQ	0.00640	5.71	1
11031	123478-HxCDF	70648-26-9	0.0410 JB	0.0146	5.71	1
11031	123678-HxCDF	57117-44-9	0.0569 JB	0.0111	5.71	1
11031	123789-HxCDF	72918-21-9	0.123 JB	0.0126	5.71	1
11031	234678-HxCDF	60851-34-5	0.0930 JB	0.0111	5.71	1
11031	1234678-HpCDF	67562-39-4	0.177 JBQ	0.0110	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0764 JBQ	0.0159	5.71	1
11031	OCDF	39001-02-0	0.228 JB	0.0217	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-295-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185968
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2954 SDG#: DX041-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-295-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-4.0-5.0

LLI Sample # SW 6185968
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:44

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2954 SDG#: DX041-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 12:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-295-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185969
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2959 SDG#: DX041-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-295-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185969
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2959 SDG#: DX041-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0150	U	0.0150	1.17	1
11031	12378-PeCDD	40321-76-4	0.0208	U	0.0208	5.85	1
11031	123478-HxCDD	39227-28-6	0.0302	JBQ	0.0136	5.85	1
11031	123678-HxCDD	57653-85-7	0.0705	JB	0.0140	5.85	1
11031	123789-HxCDD	19408-74-3	0.0700	JBQ	0.0136	5.85	1
11031	1234678-HpCDD	35822-46-9	0.429	JB	0.0194	5.85	1
11031	OCDD	3268-87-9	1.72	JB	0.0180	11.7	1
11031	2378-TCDF	51207-31-9	0.0136	U	0.0136	1.17	1
11031	12378-PeCDF	57117-41-6	0.0551	JB	0.00596	5.85	1
11031	23478-PeCDF	57117-31-4	0.0962	JB	0.00608	5.85	1
11031	123478-HxCDF	70648-26-9	0.0745	JBQ	0.0142	5.85	1
11031	123678-HxCDF	57117-44-9	0.0721	JB	0.0112	5.85	1
11031	123789-HxCDF	72918-21-9	0.113	JB	0.0136	5.85	1
11031	234678-HxCDF	60851-34-5	0.0922	JBQ	0.0120	5.85	1
11031	1234678-HpCDF	67562-39-4	0.258	JB	0.0122	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0903	JBQ	0.0174	5.85	1
11031	OCDF	39001-02-0	0.271	JB	0.0207	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-295-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185969
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2959 SDG#: DX041-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-295-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-295-SA5B-SB-9.0-10.0

LLI Sample # SW 6185969
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:48

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2959 SDG#: DX041-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 13:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185970
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1184 SDG#: DX041-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185970
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1184 SDG#: DX041-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0264 JB	0.0211	1.14	1
11031	12378-PeCDD	40321-76-4	0.0794 JBQ	0.0214	5.70	1
11031	123478-HxCDD	39227-28-6	0.0248 JBQ	0.0143	5.70	1
11031	123678-HxCDD	57653-85-7	0.0395 JBQ	0.0136	5.70	1
11031	123789-HxCDD	19408-74-3	0.0439 JB	0.0128	5.70	1
11031	1234678-HpCDD	35822-46-9	0.206 JBQ	0.0190	5.70	1
11031	OCDD	3268-87-9	0.601 JB	0.0212	11.4	1
11031	2378-TCDF	51207-31-9	0.0189 JBQ	0.0130	1.14	1
11031	12378-PeCDF	57117-41-6	0.0452 JBQ	0.00639	5.70	1
11031	23478-PeCDF	57117-31-4	0.0808 JB	0.00639	5.70	1
11031	123478-HxCDF	70648-26-9	0.0696 JBQ	0.0177	5.70	1
11031	123678-HxCDF	57117-44-9	0.0543 JBQ	0.0131	5.70	1
11031	123789-HxCDF	72918-21-9	0.0630 JBQ	0.0129	5.70	1
11031	234678-HxCDF	60851-34-5	0.0898 JBQ	0.0106	5.70	1
11031	1234678-HpCDF	67562-39-4	0.198 JB	0.0156	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0688 JB	0.0169	5.70	1
11031	OCDF	39001-02-0	0.200 JB	0.0226	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185970
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1184 SDG#: DX041-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-4.0-5.0

LLI Sample # SW 6185970
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 09:59

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1184 SDG#: DX041-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 14:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-118-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185971
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1188 SDG#: DX041-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185971
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1188 SDG#: DX041-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0444 JBQ	0.0263	1.12	1
11031	12378-PeCDD	40321-76-4	0.0424 JBQ	0.0251	5.61	1
11031	123478-HxCDD	39227-28-6	0.0234 JBQ	0.0194	5.61	1
11031	123678-HxCDD	57653-85-7	0.0659 JB	0.0192	5.61	1
11031	123789-HxCDD	19408-74-3	0.0863 JBQ	0.0192	5.61	1
11031	1234678-HpCDD	35822-46-9	0.329 JB	0.0211	5.61	1
11031	OCDD	3268-87-9	0.645 JB	0.0204	11.2	1
11031	2378-TCDF	51207-31-9	0.0158 U	0.0158	1.12	1
11031	12378-PeCDF	57117-41-6	0.0397 JBQ	0.00696	5.61	1
11031	23478-PeCDF	57117-31-4	0.0751 JB	0.00718	5.61	1
11031	123478-HxCDF	70648-26-9	0.0755 JBQ	0.0152	5.61	1
11031	123678-HxCDF	57117-44-9	0.0630 JB	0.0114	5.61	1
11031	123789-HxCDF	72918-21-9	0.0974 JB	0.0144	5.61	1
11031	234678-HxCDF	60851-34-5	0.0907 JBQ	0.0119	5.61	1
11031	1234678-HpCDF	67562-39-4	0.227 JBQ	0.0136	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0695 JBQ	0.0218	5.61	1
11031	OCDF	39001-02-0	0.219 JB	0.0242	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-118-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185971
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1188 SDG#: DX041-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-118-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5B-SB-8.0-9.0

LLI Sample # SW 6185971
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 10:08

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1188 SDG#: DX041-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 15:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-116-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185972
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS116 SDG#: DX041-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185972
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS116 SDG#: DX041-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0200	U	0.0200	1.15	1
11031	12378-PeCDD	40321-76-4	0.0452	JB	0.0227	5.74	1
11031	123478-HxCDD	39227-28-6	0.0412	JBQ	0.0168	5.74	1
11031	123678-HxCDD	57653-85-7	0.128	JBQ	0.0171	5.74	1
11031	123789-HxCDD	19408-74-3	0.176	JB	0.0165	5.74	1
11031	1234678-HpCDD	35822-46-9	0.316	JB	0.0181	5.74	1
11031	OCDD	3268-87-9	1.33	JB	0.0177	11.5	1
11031	2378-TCDF	51207-31-9	0.0129	U	0.0129	1.15	1
11031	12378-PeCDF	57117-41-6	0.0662	JBQ	0.00608	5.74	1
11031	23478-PeCDF	57117-31-4	0.0843	JBQ	0.00586	5.74	1
11031	123478-HxCDF	70648-26-9	0.0464	JBQ	0.0137	5.74	1
11031	123678-HxCDF	57117-44-9	0.0593	JB	0.0107	5.74	1
11031	123789-HxCDF	72918-21-9	0.206	JB	0.0121	5.74	1
11031	234678-HxCDF	60851-34-5	0.0855	JB	0.0111	5.74	1
11031	1234678-HpCDF	67562-39-4	0.185	JB	0.0122	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0721	JB	0.0168	5.74	1
11031	OCDF	39001-02-0	0.237	JB	0.0206	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185972
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS116 SDG#: DX041-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA5B-SB-4.0-5.0

LLI Sample # SW 6185972
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:09

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS116 SDG#: DX041-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 16:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-283-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185973
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2834 SDG#: DX041-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-283-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185973
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2834 SDG#: DX041-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0337 JBQ	0.0175	1.13	1
11031	12378-PeCDD	40321-76-4	0.0980 JBQ	0.0235	5.63	1
11031	123478-HxCDD	39227-28-6	0.0615 JB	0.0245	5.63	1
11031	123678-HxCDD	57653-85-7	0.386 JB	0.0253	5.63	1
11031	123789-HxCDD	19408-74-3	0.192 JBQ	0.0239	5.63	1
11031	1234678-HpCDD	35822-46-9	18.3 B	0.0361	5.63	1
11031	OCDD	3268-87-9	151 B	0.0345	11.3	1
11031	2378-TCDF	51207-31-9	0.0353 JB	0.0169	1.13	1
11031	12378-PeCDF	57117-41-6	0.102 JB	0.00766	5.63	1
11031	23478-PeCDF	57117-31-4	0.124 JB	0.00766	5.63	1
11031	123478-HxCDF	70648-26-9	0.141 JB	0.0223	5.63	1
11031	123678-HxCDF	57117-44-9	0.106 JBQ	0.0169	5.63	1
11031	123789-HxCDF	72918-21-9	0.171 JB	0.0175	5.63	1
11031	234678-HxCDF	60851-34-5	0.124 JBQ	0.0160	5.63	1
11031	1234678-HpCDF	67562-39-4	0.707 JB	0.0172	5.63	1
11031	1234789-HpCDF	55673-89-7	0.126 JB	0.0194	5.63	1
11031	OCDF	39001-02-0	1.82 JB	0.0217	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-283-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185973
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2834 SDG#: DX041-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-283-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-4.0-5.0

LLI Sample # SW 6185973
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:48

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2834 SDG#: DX041-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 20:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-283-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185974
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2839 SDG#: DX041-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-283-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185974
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2839 SDG#: DX041-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0394	JB	0.0166	1.13	1
11031	12378-PeCDD	40321-76-4	0.211	JBQ	0.0187	5.66	1
11031	123478-HxCDD	39227-28-6	0.182	JBQ	0.0195	5.66	1
11031	123678-HxCDD	57653-85-7	0.356	JB	0.0198	5.66	1
11031	123789-HxCDD	19408-74-3	0.337	JB	0.0199	5.66	1
11031	1234678-HpCDD	35822-46-9	4.72	JB	0.0278	5.66	1
11031	OCDD	3268-87-9	45.5	B	0.0244	11.3	1
11031	2378-TCDF	51207-31-9	0.0172	U	0.0172	1.13	1
11031	12378-PeCDF	57117-41-6	0.198	JBQ	0.00724	5.66	1
11031	23478-PeCDF	57117-31-4	0.244	JB	0.00724	5.66	1
11031	123478-HxCDF	70648-26-9	0.207	JBQ	0.0175	5.66	1
11031	123678-HxCDF	57117-44-9	0.191	JB	0.0140	5.66	1
11031	123789-HxCDF	72918-21-9	0.255	JB	0.0150	5.66	1
11031	234678-HxCDF	60851-34-5	0.216	JB	0.0144	5.66	1
11031	1234678-HpCDF	67562-39-4	0.690	JB	0.0145	5.66	1
11031	1234789-HpCDF	55673-89-7	0.187	JB	0.0180	5.66	1
11031	OCDF	39001-02-0	1.27	JB	0.0189	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-283-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185974
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2839 SDG#: DX041-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-283-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-283-SA5B-SB-9.0-10.0

LLI Sample # SW 6185974
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 12:53

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2839 SDG#: DX041-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 21:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-280-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185975
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2804 SDG#: DX041-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-280-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185975
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2804 SDG#: DX041-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0211 JB	0.0180	1.11	1
11031	12378-PeCDD	40321-76-4	0.0621 JBQ	0.0200	5.56	1
11031	123478-HxCDD	39227-28-6	0.0152 U	0.0152	5.56	1
11031	123678-HxCDD	57653-85-7	0.122 JBQ	0.0155	5.56	1
11031	123789-HxCDD	19408-74-3	0.165 JB	0.0142	5.56	1
11031	1234678-HpCDD	35822-46-9	0.223 JB	0.0187	5.56	1
11031	OCDD	3268-87-9	0.881 JB	0.0195	11.1	1
11031	2378-TCDF	51207-31-9	0.0172 JBQ	0.0135	1.11	1
11031	12378-PeCDF	57117-41-6	0.0533 JB	0.00590	5.56	1
11031	23478-PeCDF	57117-31-4	0.0812 JBQ	0.00545	5.56	1
11031	123478-HxCDF	70648-26-9	0.0883 JBQ	0.0202	5.56	1
11031	123678-HxCDF	57117-44-9	0.0573 JBQ	0.0143	5.56	1
11031	123789-HxCDF	72918-21-9	0.117 JB	0.0113	5.56	1
11031	234678-HxCDF	60851-34-5	0.0665 JB	0.0101	5.56	1
11031	1234678-HpCDF	67562-39-4	0.209 JBQ	0.0131	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0556 JBQ	0.0141	5.56	1
11031	OCDF	39001-02-0	0.209 JBQ	0.0228	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-280-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185975
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2804 SDG#: DX041-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-280-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-4.0-5.0

LLI Sample # SW 6185975
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:25

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2804 SDG#: DX041-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 22:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-280-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185976
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2809 SDG#: DX041-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-280-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185976
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2809 SDG#: DX041-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0190 U	0.0190	1.18	1
11031	12378-PeCDD	40321-76-4	0.0279 JB	0.0233	5.92	1
11031	123478-HxCDD	39227-28-6	0.0198 JBQ	0.0172	5.92	1
11031	123678-HxCDD	57653-85-7	0.0844 JB	0.0166	5.92	1
11031	123789-HxCDD	19408-74-3	0.136 JB	0.0147	5.92	1
11031	1234678-HpCDD	35822-46-9	0.271 JBQ	0.0219	5.92	1
11031	OCDD	3268-87-9	0.767 JB	0.0269	11.8	1
11031	2378-TCDF	51207-31-9	0.0193 JBQ	0.0140	1.18	1
11031	12378-PeCDF	57117-41-6	0.0414 JBQ	0.00699	5.92	1
11031	23478-PeCDF	57117-31-4	0.0997 JBQ	0.00746	5.92	1
11031	123478-HxCDF	70648-26-9	0.0745 JBQ	0.0257	5.92	1
11031	123678-HxCDF	57117-44-9	0.0556 JBQ	0.0171	5.92	1
11031	123789-HxCDF	72918-21-9	0.135 JB	0.0133	5.92	1
11031	234678-HxCDF	60851-34-5	0.0606 JBQ	0.0114	5.92	1
11031	1234678-HpCDF	67562-39-4	0.204 JBQ	0.0187	5.92	1
11031	1234789-HpCDF	55673-89-7	0.0679 JB	0.0201	5.92	1
11031	OCDF	39001-02-0	0.177 JB	0.0295	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-280-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185976
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2809 SDG#: DX041-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-280-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-280-SA5B-SB-9.0-10.0

LLI Sample # SW 6185976
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:28

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2809 SDG#: DX041-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 23:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162402A	01/26/2011 18:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185977
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS115 SDG#: DX041-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185977
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS115 SDG#: DX041-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0155 U	0.0155	1.11	1
11031	12378-PeCDD	40321-76-4	0.0548 JBQ	0.0199	5.53	1
11031	123478-HxCDD	39227-28-6	0.0480 JBQ	0.0186	5.53	1
11031	123678-HxCDD	57653-85-7	0.218 JB	0.0196	5.53	1
11031	123789-HxCDD	19408-74-3	0.268 JBQ	0.0189	5.53	1
11031	1234678-HpCDD	35822-46-9	2.55 JB	0.0231	5.53	1
11031	OCDD	3268-87-9	32.7 B	0.0217	11.1	1
11031	2378-TCDF	51207-31-9	0.0336 JBQ	0.0200	1.11	1
11031	12378-PeCDF	57117-41-6	0.00951 U	0.00951	5.53	1
11031	23478-PeCDF	57117-31-4	0.109 JBQ	0.00929	5.53	1
11031	123478-HxCDF	70648-26-9	0.109 JB	0.0186	5.53	1
11031	123678-HxCDF	57117-44-9	0.0724 JBQ	0.0155	5.53	1
11031	123789-HxCDF	72918-21-9	0.202 JB	0.0169	5.53	1
11031	234678-HxCDF	60851-34-5	0.0792 JB	0.0156	5.53	1
11031	1234678-HpCDF	67562-39-4	0.541 JB	0.0129	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0654 JB	0.0158	5.53	1
11031	OCDF	39001-02-0	1.20 JB	0.0187	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-115-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185977
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS115 SDG#: DX041-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA5B-SB-4.0-5.0

LLI Sample # SW 6185977
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 15:59

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS115 SDG#: DX041-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/05/2011 23:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185978
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS114 SDG#: DX041-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185978
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS114 SDG#: DX041-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0160 U	0.0160	1.09	1
11031	12378-PeCDD	40321-76-4	0.0674 JBQ	0.0188	5.44	1
11031	123478-HxCDD	39227-28-6	0.101 JB	0.0254	5.44	1
11031	123678-HxCDD	57653-85-7	0.321 JBQ	0.0269	5.44	1
11031	123789-HxCDD	19408-74-3	0.312 JB	0.0264	5.44	1
11031	1234678-HpCDD	35822-46-9	6.35 B	0.0325	5.44	1
11031	OCDD	3268-87-9	106 B	0.0297	10.9	1
11031	2378-TCDF	51207-31-9	0.0217 U	0.0217	1.09	1
11031	12378-PeCDF	57117-41-6	0.133 JBQ	0.00958	5.44	1
11031	23478-PeCDF	57117-31-4	0.00903 U	0.00903	5.44	1
11031	123478-HxCDF	70648-26-9	0.135 JB	0.0166	5.44	1
11031	123678-HxCDF	57117-44-9	0.0886 JBQ	0.0156	5.44	1
11031	123789-HxCDF	72918-21-9	0.186 JB	0.0177	5.44	1
11031	234678-HxCDF	60851-34-5	0.0893 JBQ	0.0168	5.44	1
11031	1234678-HpCDF	67562-39-4	0.881 JB	0.0159	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0936 JB	0.0208	5.44	1
11031	OCDF	39001-02-0	2.39 JB	0.0214	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185978
LLI Group # 1229559
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS114 SDG#: DX041-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5B-SB-4.0-5.0

LLI Sample # SW 6185978
LLI Group # 1229559
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Collected: 01/18/2011 14:34

Submitted: 01/19/2011 09:40
Reported: 02/27/2011 15:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS114 SDG#: DX041-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/06/2011 00:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229559
Reported: 02/27/11 at 03:49 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11026162402A	Sample number(s): 6185966-6185969,6185973-6185976								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11032162401A	Sample number(s): 6185970-6185972,6185977-6185978								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11031001	Sample number(s): 6185966-6185978								
2378-TCDD	0.0357 J	0.0172	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0673 J	0.0188	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0492 J	0.0152	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0659 J	0.0162	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0805 J	0.0152	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.306 J	0.0177	5.00	ng/kg	88		70-140		
OCDD	0.730 J	0.0153	10.0	ng/kg	91		78-144		
2378-TCDF	0.0319 J	0.0123	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0841 J	0.00610	5.00	ng/kg	91		80-134		
23478-PeCDF	0.127 J	0.00600	5.00	ng/kg	89		68-160		
123478-HxCDF	0.104 J	0.0145	5.00	ng/kg	88		72-134		
123678-HxCDF	0.0991 J	0.0123	5.00	ng/kg	87		84-130		
123789-HxCDF	0.114 J	0.0147	5.00	ng/kg	86		78-130		
234678-HxCDF	0.119 J	0.0132	5.00	ng/kg	88		70-156		
1234678-HpCDF	0.289 J	0.0130	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.160 J	0.0187	5.00	ng/kg	87		78-138		
OCDF	0.418 J	0.0238	10.0	ng/kg	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11026162402A	Sample number(s): 6185966-6185969,6185973-6185976					BKG: P185960			
28a Moisture Content by 160.3						15.6	16.2	4	20
Batch number: 11032162401A	Sample number(s): 6185970-6185972,6185977-6185978					BKG: P186943			
28a Moisture Content by 160.3						2.6	2.7	5	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229559
Reported: 02/27/11 at 03:49 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11031001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6185966	80	84	71	79	74	74
6185967	79	83	71	82	76	75
6185968	71	79	56	70	68	68
6185969	77	76	61	75	71	69
6185970	68	72	41	55	66	64
6185971	69	76	55	70	69	64
6185972	87	93	71	86	84	86
6185973	80	84	58	73	78	79
6185974	81	83	59	72	73	76
6185975	74	83	36	51	73	72
6185976	68	67	27	40	58	56
6185977	83	88	64	74	74	78
6185978	76	81	68	73	70	72
Blank	76	80	72	83	75	76
OPR	78	81	75	88	78	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6185966	86	72	69	95	88	82
6185967	90	74	70	88	87	84
6185968	77	64	61	84	83	76
6185969	83	66	62	89	82	80
6185970	60	64	59	79	76	66
6185971	88	64	59	86	84	78
6185972	96	80	75	105	97	92
6185973	75	76	71	95	85	83
6185974	76	70	67	92	87	82
6185975	62	69	61	89	85	78
6185976	48	52	44	78	74	61
6185977	80	73	70	94	89	84
6185978	78	69	64	90	82	82
Blank	90	73	69	96	84	83
OPR	99	72	70	89	87	85
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6185966	82	82	85	77	74	91
6185967	84	88	87	80	76	92
6185968	78	78	78	71	68	85
6185969	79	84	82	73	71	85
6185970	70	75	77	70	63	80
6185971	81	83	85	80	66	86
6185972	92	95	97	89	85	101
6185973	83	86	88	83	81	92

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229559
Reported: 02/27/11 at 03:49 PM

Surrogate Quality Control

6185974	83	85	85	77	78	90
6185975	80	87	86	78	73	88
6185976	64	71	71	65	64	77
6185977	84	87	88	80	82	93
6185978	81	83	85	74	75	84
Blank	82	83	89	82	71	86
OPR	85	87	88	83	72	90
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1229559 6185966-78

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature: Carl Chandler, Kathma

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-DRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-295-SA5B-SB-4.0-5.0	01.18.11	1119	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X															
SL-295-SA5B-SB-4.5	01.18.11	1115	SOIL	NONE	4 ENCORES											X	X											
SL-295-SA5B-SB-9.0-10.0	01.18.11	1124	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-295-SA5B-SB-4.0-5.0	01.18.11	0944	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-295-SA5B-SB-4.5	01.18.11	0940	SOIL	NONE	4 ENCORES											X	X											
SL-295-SA5B-SB-9.0-10.0	01.18.11	0946	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-116-SA5B-SB-4.0-5.0	01.18.11	0958	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X																
SL-116-SA5B-SB-4.5	01.18.11	0955	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-116-SA5B-SB-9.0-9.0	01.18.11	1008	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-116-SA5B-SB-8.5	01.18.11	1004	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-116-SA5B-SB-4.0-5.0	01.18.11	1209	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-116-SA5B-SB-4.5	01.18.11	1205	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-283-SA5B-SB-4.0-5.0	01.18.11	1248	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-283-SA5B-SB-4.5	01.18.11	1245	SOIL	NONE	4 ENCORES																							
SL-283-SA5B-SB-9.0-10.0	01.18.11	1253	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
SL-280-SA5B-SB-4.0-5.0	01.18.11	1525	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-280-SA5B-SB-4.5	01.18.11	1522	SOIL	NONE	4 ENCORES											X	X											
SL-280-SA5B-SB-9.0-10.0	01.18.11	1528	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X															
SL-115-SA5B-SB-4.0-5.0	01.18.11	1559	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-115-SA5B-SB-4.5	01.18.11	1555	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-114-SA5B-SB-4.0-5.0	01.18.11	1434	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-114-SA5B-SB-4.5	01.18.11	1430	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
TB-011811	01.18.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										

Relinquished by: (Signature) — Date/Time: 1/18/2011, 17:00
Received by: (Signature) — Date/Time:
Received for Laboratory by: (Signature) Kristin Lough — 1-19-11 0940
Airbill No.(s): 5788 9935 3982, ... 4020

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/20/2011
Group Number: 1229767
SDG: DE064
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-025-SA5B-SB-4.0-5.0 Soil	6186937
SL-025-SA5B-SB-9.0-10.0 Soil	6186938
SL-048-SA5B-SB-4.0-5.0 Soil	6186939
SL-048-SA5B-SB-9.0-10.0 Soil	6186940
SL-024-SA5B-SB-4.0-5.0 Soil	6186941
SL-024-SA5B-SB-9.0-10.0 Soil	6186942
SL-022-SA5B-SB-2.0-3.0 Soil	6186943
SL-287-SA5B-SB-4.0-5.0 Soil	6186944
SL-287-SA5B-SB-9.0-10.0 Soil	6186945
SL-049-SA5B-SB-4.0-5.0 Soil	6186946
SL-049-SA5B-SB-9.0-10.0 Soil	6186947
SL-031-SA5B-SB-4.0-5.0 Soil	6186948
SL-031-SA5B-SB-9.0-10.0 Soil	6186949
TB-011911 Water	6186950

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Christine Dulaney
Senior Specialist

Sample Description: SL-025-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186937
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0254 SDG#: DE064-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.92
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.92
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.92
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.92
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.92
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.92
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.92
06192	Methylene Chloride	75-09-2	0.68	J	0.24	4.0		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.92

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186937
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0254 SDG#: DE064-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.92
06192	Toluene	108-88-3	0.08	J	0.08	4.0		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.63
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186937
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0254 SDG#: DE064-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	2.9		0.73	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186937
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0254 SDG#: DE064-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg. The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.38	21.4		1
07914	Boron	7440-42-8	0.953	U	0.953	5.35		1
01650	Calcium	7440-70-2	2,400		6.56	21.4		1
01654	Iron	7439-89-6	18,700		5.04	21.4		1
01656	Lithium	7439-93-2	20.2		0.24	2.1		1
01657	Magnesium	7439-95-4	4,040		2.72	10.7		1
06958	Manganese	7439-96-5	257		0.0835	0.535		1
10145	Phosphorus	7723-14-0	336		0.599	10.7		1
01662	Potassium	7440-09-7	2,900		19.3	53.5		1
01667	Sodium	7440-23-5	182		39.9	107		1
07968	Strontium	7440-24-6	22.0		0.0664	0.535		1
06969	Tin	7440-31-5	2.47	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,230		0.407	1.07		1
10146	Zirconium	7440-67-7	3.94	J	0.899	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0993	J	0.0630	0.210		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186937
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0254 SDG#: DE064-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	3.95		0.0840	0.420		2
06126	Barium	7440-39-3	92.2		0.113	0.420		2
06127	Beryllium	7440-41-7	0.526		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.194		0.0420	0.105		2
06131	Chromium	7440-47-3	16.0		0.126	0.420		2
06132	Cobalt	7440-48-4	6.42		0.0210	0.105		2
06133	Copper	7440-50-8	8.36		0.0693	0.420		2
06135	Lead	7439-92-1	5.66		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.474		0.0525	0.105		2
06139	Nickel	7440-02-0	10.2		0.105	0.420		2
06141	Selenium	7782-49-2	0.105	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0302	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.265		0.0315	0.105		2
06148	Vanadium	7440-62-2	30.5		0.0231	0.105		2
06149	Zinc	7440-66-6	48.3		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0053	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	391		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	5.93		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186937
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0254 SDG#: DE064-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-025-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 16:11	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110212AA	01/21/2011 16:43	Jason M Long	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 19:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102023551	01/20/2011 19:29	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 11:54	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 11:36	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/03/2011 04:10	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 14:20	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:53	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186937
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0254 SDG#: DE064-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:53	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:53	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:53	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 11:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11032621201A	02/09/2011 05:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11033243201A	02/08/2011 13:21	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201A	02/08/2011 12:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-025-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186938
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0259 SDG#: DE064-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186938
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0259 SDG#: DE064-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.3	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	2.3		0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg.
The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56	U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186938
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0259 SDG#: DE064-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		5.43	21.6		1
07914	Boron	7440-42-8	0.960	U	0.960	5.39		1
01650	Calcium	7440-70-2	2,790		6.61	21.6		1
01654	Iron	7439-89-6	23,700		5.08	21.6		1
01656	Lithium	7439-93-2	22.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,450		2.74	10.8		1
06958	Manganese	7439-96-5	258		0.0841	0.539		1
10145	Phosphorus	7723-14-0	359		0.604	10.8		1
01662	Potassium	7440-09-7	2,680		19.4	53.9		1
01667	Sodium	7440-23-5	216		40.2	108		1
07968	Strontium	7440-24-6	23.7		0.0669	0.539		1
06969	Tin	7440-31-5	2.39	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,330		0.410	1.08		1
10146	Zirconium	7440-67-7	3.72	J	0.906	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.13		0.0855	0.427		2
06126	Barium	7440-39-3	115		0.115	0.427		2
06127	Beryllium	7440-41-7	0.628		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.196		0.0427	0.107		2
06131	Chromium	7440-47-3	19.9		0.128	0.427		2
06132	Cobalt	7440-48-4	6.67		0.0214	0.107		2
06133	Copper	7440-50-8	9.13		0.0705	0.427		2
06135	Lead	7439-92-1	5.88		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.587		0.0534	0.107		2
06139	Nickel	7440-02-0	12.2		0.107	0.427		2
06141	Selenium	7782-49-2	0.0956	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0362	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.307		0.0321	0.107		2
06148	Vanadium	7440-62-2	38.4		0.0235	0.107		2
06149	Zinc	7440-66-6	61.5		0.598	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0053	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.89	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186938
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0259 SDG#: DE064-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	360		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011	13:39	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011	12:08	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011	10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011	19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	01/31/2011	23:50	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011	01:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011	01:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011	01:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011	14:23	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011	01:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011	01:24	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186938
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0259 SDG#: DE064-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 00:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 00:57	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 00:57	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 00:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 12:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201A	02/02/2011 14:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11033243201A	02/08/2011 13:33	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201A	02/02/2011 07:55	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186939
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0484 SDG#: DE064-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.4		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.94
06192	Methylene Chloride	75-09-2	0.70	J	0.25	4.2		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186939
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0484 SDG#: DE064-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.02
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-048-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186939
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0484 SDG#: DE064-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.43	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	3.0		0.75	1.9		1

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Sample Description: **SL-048-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186939
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0484 SDG#: DE064-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg. The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,300		5.60	22.3		1
07914	Boron	7440-42-8	0.991	U	0.991	5.57		1
01650	Calcium	7440-70-2	1,690		6.83	22.3		1
01654	Iron	7439-89-6	15,900		5.25	22.3		1
01656	Lithium	7439-93-2	17.0		0.25	2.2		1
01657	Magnesium	7439-95-4	2,800		2.83	11.1		1
06958	Manganese	7439-96-5	218		0.0869	0.557		1
10145	Phosphorus	7723-14-0	266		0.624	11.1		1
01662	Potassium	7440-09-7	2,440		20.0	55.7		1
01667	Sodium	7440-23-5	181		41.5	111		1
07968	Strontium	7440-24-6	10.4		0.0691	0.557		1
06969	Tin	7440-31-5	2.37	J	1.11	11.1		1
06970	Titanium	7440-32-6	944		0.423	1.11		1
10146	Zirconium	7440-67-7	1.85	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0668	0.223		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186939
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S0484 SDG#: DE064-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	3.89	0.0891	0.445		2
06126	Barium	7440-39-3	59.6	0.120	0.445		2
06127	Beryllium	7440-41-7	0.405	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0796 J	0.0445	0.111		2
06131	Chromium	7440-47-3	9.56	0.134	0.445		2
06132	Cobalt	7440-48-4	3.45	0.0223	0.111		2
06133	Copper	7440-50-8	4.22	0.0735	0.445		2
06135	Lead	7439-92-1	4.01	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.333	0.0557	0.111		2
06139	Nickel	7440-02-0	5.73	0.111	0.445		2
06141	Selenium	7782-49-2	0.0887 J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0137 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.234	0.0334	0.111		2
06148	Vanadium	7440-62-2	21.8	0.0245	0.111		2
06149	Zinc	7440-66-6	52.1	0.624	3.34		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	333	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.74	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-048-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186939
LLI Group # 1229767
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S0484 SDG#: DE064-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-048-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 16:33	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110212AA	01/21/2011 17:03	Jason M Long	23.02
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 19:36	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102023551	01/20/2011 19:34	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 14:13	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 12:39	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011 00:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/26/2011 13:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 01:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2

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Sample Description: **SL-048-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186939
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0484 SDG#: DE064-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 01:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 01:00	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 01:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 12:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11032621201A	02/09/2011 08:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11033243201A	02/04/2011 13:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11032621201A	02/08/2011 12:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186940
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0489 SDG#: DE064-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-048-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186940
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0489 SDG#: DE064-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	2.5		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg.
The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1

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Sample Description: **SL-048-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186940
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0489 SDG#: DE064-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.22	20.7		1
07914	Boron	7440-42-8	0.923	U	0.923	5.19		1
01650	Calcium	7440-70-2	2,820		6.36	20.7		1
01654	Iron	7439-89-6	19,600		4.89	20.7		1
01656	Lithium	7439-93-2	23.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,740		2.63	10.4		1
06958	Manganese	7439-96-5	311		0.0809	0.519		1
10145	Phosphorus	7723-14-0	337		0.581	10.4		1
01662	Potassium	7440-09-7	3,720		18.7	51.9		1
01667	Sodium	7440-23-5	269		38.7	104		1
07968	Strontium	7440-24-6	22.1		0.0643	0.519		1
06969	Tin	7440-31-5	2.48	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,140		0.394	1.04		1
10146	Zirconium	7440-67-7	2.81	J	0.871	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0734	J	0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.84		0.0838	0.419		2
06126	Barium	7440-39-3	111		0.113	0.419		2
06127	Beryllium	7440-41-7	0.516		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.214		0.0419	0.105		2
06131	Chromium	7440-47-3	14.7		0.126	0.419		2
06132	Cobalt	7440-48-4	5.20		0.0209	0.105		2
06133	Copper	7440-50-8	7.40		0.0691	0.419		2
06135	Lead	7439-92-1	5.59		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.609		0.0524	0.105		2
06139	Nickel	7440-02-0	9.88		0.105	0.419		2
06141	Selenium	7782-49-2	0.131	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0289	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.275		0.0314	0.105		2
06148	Vanadium	7440-62-2	29.8		0.0230	0.105		2
06149	Zinc	7440-66-6	70.0		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0124	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.86	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-048-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186940
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0489 SDG#: DE064-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	373		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.69		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011	14:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/27/2011	03:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011	10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011	19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011	00:27	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011	01:32	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011	01:32	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011	01:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011	14:30	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011	01:32	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-048-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186940
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0489 SDG#: DE064-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 01:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 01:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 01:03	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 01:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 13:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11032621201A	02/09/2011 08:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11033243201A	02/04/2011 13:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11032621201A	02/08/2011 12:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186941
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0244 SDG#: DE064-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	0.64	J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

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Sample Description: **SL-024-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186941
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0244 SDG#: DE064-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.76
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186941
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0244 SDG#: DE064-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	3.0		0.76	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-024-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186941
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

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Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0244 SDG#: DE064-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg. The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.56	22.1		1
07914	Boron	7440-42-8	0.983	U	0.983	5.52		1
01650	Calcium	7440-70-2	2,810		6.77	22.1		1
01654	Iron	7439-89-6	22,300		5.20	22.1		1
01656	Lithium	7439-93-2	21.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,370		2.81	11.0		1
06958	Manganese	7439-96-5	259		0.0862	0.552		1
10145	Phosphorus	7723-14-0	134		0.619	11.0		1
01662	Potassium	7440-09-7	1,590		19.9	55.2		1
01667	Sodium	7440-23-5	296		41.2	110		1
07968	Strontium	7440-24-6	21.8		0.0685	0.552		1
06969	Tin	7440-31-5	2.75	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,230		0.420	1.10		1
10146	Zirconium	7440-67-7	2.83	J	0.928	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0676	0.225		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186941
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0244 SDG#: DE064-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.75	0.0901	0.451		2
06126	Barium	7440-39-3	64.4	0.122	0.451		2
06127	Beryllium	7440-41-7	0.690	0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0451 U	0.0451	0.113		2
06131	Chromium	7440-47-3	19.2	0.135	0.451		2
06132	Cobalt	7440-48-4	6.57	0.0225	0.113		2
06133	Copper	7440-50-8	7.10	0.0743	0.451		2
06135	Lead	7439-92-1	5.99	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.321	0.0563	0.113		2
06139	Nickel	7440-02-0	9.35	0.113	0.451		2
06141	Selenium	7782-49-2	0.0569 J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0398 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.266	0.0338	0.113		2
06148	Vanadium	7440-62-2	35.2	0.0248	0.113		2
06149	Zinc	7440-66-6	49.4	0.631	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0037 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.4	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	383	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.30	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-024-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186941
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0244 SDG#: DE064-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 16:56	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110212AA	01/21/2011 17:23	Jason M Long	20.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 19:40	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102023551	01/20/2011 19:38	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 15:23	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 13:11	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011 00:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 14:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 01:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2

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Sample Description: **SL-024-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186941
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0244 SDG#: DE064-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 01:06	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 01:06	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 01:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 13:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201A	02/02/2011 16:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11033243201A	02/04/2011 14:09	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201A	02/02/2011 07:55	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186942
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0249 SDG#: DE064-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-024-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186942
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0249 SDG#: DE064-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	2.7		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg.
The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1

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Sample Description: **SL-024-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186942
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0249 SDG#: DE064-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		5.38	21.4		1
07914	Boron	7440-42-8	0.952	U	0.952	5.35		1
01650	Calcium	7440-70-2	2,990		6.55	21.4		1
01654	Iron	7439-89-6	22,700		5.04	21.4		1
01656	Lithium	7439-93-2	23.4		0.24	2.1		1
01657	Magnesium	7439-95-4	4,420		2.72	10.7		1
06958	Manganese	7439-96-5	244		0.0834	0.535		1
10145	Phosphorus	7723-14-0	327		0.599	10.7		1
01662	Potassium	7440-09-7	2,620		19.2	53.5		1
01667	Sodium	7440-23-5	181		39.9	107		1
07968	Strontium	7440-24-6	18.7		0.0663	0.535		1
06969	Tin	7440-31-5	2.49	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,150		0.406	1.07		1
10146	Zirconium	7440-67-7	2.97	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0817	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.31		0.0864	0.432		2
06126	Barium	7440-39-3	91.0		0.117	0.432		2
06127	Beryllium	7440-41-7	0.560		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.115		0.0432	0.108		2
06131	Chromium	7440-47-3	16.1		0.130	0.432		2
06132	Cobalt	7440-48-4	5.40		0.0216	0.108		2
06133	Copper	7440-50-8	6.90		0.0713	0.432		2
06135	Lead	7439-92-1	4.77		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.536		0.0540	0.108		2
06139	Nickel	7440-02-0	9.75		0.108	0.432		2
06141	Selenium	7782-49-2	0.0915	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0241	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.270		0.0324	0.108		2
06148	Vanadium	7440-62-2	32.2		0.0238	0.108		2
06149	Zinc	7440-66-6	55.7		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0370	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.88	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186942
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0249 SDG#: DE064-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	393		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 15:58	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 13:43	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/03/2011 05:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 14:37	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186942
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0249 SDG#: DE064-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 01:09	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 01:09	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 01:09	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 01:09	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 14:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11032621201A	02/09/2011 09:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11033243201A	02/08/2011 12:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11032621201A	02/08/2011 12:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0232 SDG#: DE064-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		1.01
06192	Benzene	71-43-2	0.10	U	0.10	4.1		1.01
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		1.01
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		1.01
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		1.01
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		1.01
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		1.01
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		1.01
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		1.01
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		1.01
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		1.01
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		1.01
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		1.01
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		1.01
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		1.01
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		1.01
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		1.01
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		1.01
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		1.01
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		1.01
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		1.01
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		1.01
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		1.01
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		1.01
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		1.01
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		1.01
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		1.01
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		1.01
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		1.01
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		1.01
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		1.01
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		1.01
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		1.01
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		1.01
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		1.01
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		1.01
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		1.01
06192	Methylene Chloride	75-09-2	0.93	J	0.25	4.1		1.01
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		1.01

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0232 SDG#: DE064-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		1.01
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		1.01
06192	Toluene	108-88-3	0.08	U	0.08	4.1		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		1.01
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		1.01
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		1.01
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		1.01
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		1.01
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		25.99
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.1	U	17.1	34.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	680	U	680	1,000		1

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Sample Description: SL-022-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0232 SDG#: DE064-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	18		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	18		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	18		1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1

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Sample Description: SL-022-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0232 SDG#: DE064-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	4.0		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg. The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		29.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
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S0232 SDG#: DE064-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	620	U	620	1,500		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.8	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	1.2	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Sample results from the reextract batch are all non-detect.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	13		1

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Sample Description: SL-022-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0232 SDG#: DE064-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	13		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,800		5.01	19.9		1
07914	Boron	7440-42-8	0.887	U	0.887	4.98		1
01650	Calcium	7440-70-2	3,980		6.11	19.9		1
01654	Iron	7439-89-6	18,700		4.69	19.9		1
01656	Lithium	7439-93-2	29.6		0.22	2.0		1
01657	Magnesium	7439-95-4	4,900		2.53	9.97		1
06958	Manganese	7439-96-5	266		0.0777	0.498		1
10145	Phosphorus	7723-14-0	318		0.558	9.97		1
01662	Potassium	7440-09-7	3,010		17.9	49.8		1
01667	Sodium	7440-23-5	466		37.2	99.7		1
07968	Strontium	7440-24-6	11.5		0.0618	0.498		1
06969	Tin	7440-31-5	2.68	J	0.997	9.97		1
06970	Titanium	7440-32-6	1,110		0.379	0.997		1
10146	Zirconium	7440-67-7	2.39	J	0.837	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0787	J	0.0604	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.67		0.0805	0.403		2
06126	Barium	7440-39-3	96.1		0.109	0.403		2
06127	Beryllium	7440-41-7	0.367		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.139		0.0403	0.101		2
06131	Chromium	7440-47-3	13.8		0.121	0.403		2
06132	Cobalt	7440-48-4	4.65		0.0201	0.101		2
06133	Copper	7440-50-8	5.10		0.0664	0.403		2
06135	Lead	7439-92-1	3.45		0.0105	0.201		2
06138	Molybdenum	7439-98-7	0.286		0.0503	0.101		2
06139	Nickel	7440-02-0	8.19		0.101	0.403		2
06141	Selenium	7782-49-2	0.0683	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.0121	U	0.0121	0.101		2
06145	Thallium	7440-28-0	0.223		0.0302	0.101		2
06148	Vanadium	7440-62-2	28.4		0.0221	0.101		2
06149	Zinc	7440-66-6	52.6		0.564	3.02		2

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Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0232 SDG#: DE064-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0964		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	372		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	2.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-022-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 17:18	Chelsea B Eastep	1.01

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Sample Description: SL-022-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
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S0232 SDG#: DE064-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110212AA	01/21/2011 17:42	Jason M Long	25.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:00	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:17	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102023553	01/20/2011 20:24	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102023551	01/20/2011 19:57	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11020SLE026	01/30/2011 10:28	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 16:33	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 14:15	Dale R Stoneroad	1
11630	NDMA Soil Microwave	SW-846 3546	1	11020SLE026	01/21/2011 10:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34B	01/21/2011 19:10	Marie D John	29.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 19:51	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 14:51	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 17:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011 01:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250009A	01/28/2011 08:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 03:54	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 03:27	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250010A	01/29/2011 01:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250009A	01/25/2011 16:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250010A	01/25/2011 17:30	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110215708002	01/25/2011 14:41	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1

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Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0232 SDG#: DE064-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110215708002	01/25/2011 01:44	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06125	Arsenic	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06126	Barium	SW-846 6020	1	110211026001D	01/27/2011 01:12	David K Beck	2
06127	Beryllium	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06128	Cadmium	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06131	Chromium	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06132	Cobalt	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06133	Copper	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06135	Lead	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110211026001C	01/27/2011 01:12	David K Beck	2
06139	Nickel	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06141	Selenium	SW-846 6020	1	110211026001B	01/27/2011 01:12	David K Beck	2
06142	Silver	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06145	Thallium	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06148	Vanadium	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
06149	Zinc	SW-846 6020	1	110211026001A	01/27/2011 01:12	David K Beck	2
00159	Mercury	SW-846 7471A	1	110215711002	01/24/2011 19:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110215708002	01/23/2011 20:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110211026001	01/23/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110215711002	01/24/2011 00:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 14:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11032032201A	02/02/2011 14:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201A	02/02/2011 16:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11033243201A	02/04/2011 14:15	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201A	02/02/2011 07:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1

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Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186943
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0232 SDG#: DE064-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-287-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186944
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2874 SDG#: DE064-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.96
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.96
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.96
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.96
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.96
06192	Methylene Chloride	75-09-2	0.56	J	0.26	4.3		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.96

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Sample Description: SL-287-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186944
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2874 SDG#: DE064-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.36
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-287-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186944
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2874 SDG#: DE064-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	2.2		0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-287-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186944
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2874 SDG#: DE064-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg. The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.42	21.5		1
07914	Boron	7440-42-8	1.47	J	0.958	5.38		1
01650	Calcium	7440-70-2	2,170		6.60	21.5		1
01654	Iron	7439-89-6	19,700		5.07	21.5		1
01656	Lithium	7439-93-2	19.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,550		2.73	10.8		1
06958	Manganese	7439-96-5	213		0.0840	0.538		1
10145	Phosphorus	7723-14-0	258		0.603	10.8		1
01662	Potassium	7440-09-7	2,560		19.4	53.8		1
01667	Sodium	7440-23-5	342		40.2	108		1
07968	Strontium	7440-24-6	14.4		0.0668	0.538		1
06969	Tin	7440-31-5	2.80	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,000		0.409	1.08		1
10146	Zirconium	7440-67-7	2.71	J	0.904	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.181	J	0.0665	0.222		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-287-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186944
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2874 SDG#: DE064-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.71	0.0887	0.443		2
06126	Barium	7440-39-3	68.3	0.120	0.443		2
06127	Beryllium	7440-41-7	0.476	0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0590 J	0.0443	0.111		2
06131	Chromium	7440-47-3	11.5	0.133	0.443		2
06132	Cobalt	7440-48-4	3.87	0.0222	0.111		2
06133	Copper	7440-50-8	6.12	0.0725	0.439		2
06135	Lead	7439-92-1	4.22	0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.300	0.0554	0.111		2
06139	Nickel	7440-02-0	6.75	0.111	0.443		2
06141	Selenium	7782-49-2	0.0878 J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0224 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.256	0.0333	0.111		2
06148	Vanadium	7440-62-2	24.5	0.0244	0.111		2
06149	Zinc	7440-66-6	49.1	0.621	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.6	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	370	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-287-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186944
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2874 SDG#: DE064-08

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-287-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 17:40	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110212AA	01/21/2011 18:02	Jason M Long	23.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 19:45	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102023551	01/20/2011 19:42	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 17:08	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 14:46	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 17:13	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011 01:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
07914	Boron	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
01654	Iron	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
06969	Tin	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110245708002	01/25/2011 19:44	John P Hook	1
06124	Antimony	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06126	Barium	SW-846 6020	1	110241026001D	01/31/2011 21:25	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-287-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186944
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2874 SDG#: DE064-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06131	Chromium	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06133	Copper	SW-846 6020	1	110331026001A	02/07/2011 05:08	David K Beck	2
06135	Lead	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110241026001C	01/31/2011 21:25	David K Beck	2
06139	Nickel	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06141	Selenium	SW-846 6020	1	110241026001B	01/31/2011 21:25	David K Beck	2
06142	Silver	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06145	Thallium	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
06149	Zinc	SW-846 6020	1	110241026001A	01/31/2011 21:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	110245711003	01/25/2011 18:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110245708002	01/24/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110241026001	01/24/2011 20:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110331026001	02/02/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110245711003	01/24/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 14:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11032621201A	02/09/2011 09:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11033243201A	02/04/2011 14:28	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11032621201A	02/08/2011 12:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-287-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186945
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:53 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2879 SDG#: DE064-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	44	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-287-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186945
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:53 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2879 SDG#: DE064-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	2.6		0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg.
The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-287-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186945
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:53 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2879 SDG#: DE064-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,200		5.20	20.7		1
07914	Boron	7440-42-8	0.920	U	0.920	5.17		1
01650	Calcium	7440-70-2	3,700		6.34	20.7		1
01654	Iron	7439-89-6	19,900		4.87	20.7		1
01656	Lithium	7439-93-2	30.1		0.23	2.1		1
01657	Magnesium	7439-95-4	4,440		2.63	10.3		1
06958	Manganese	7439-96-5	258		0.0806	0.517		1
10145	Phosphorus	7723-14-0	367		0.579	10.3		1
01662	Potassium	7440-09-7	3,350		18.6	51.7		1
01667	Sodium	7440-23-5	129		38.5	103		1
07968	Strontium	7440-24-6	13.4		0.0641	0.517		1
06969	Tin	7440-31-5	2.41	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,110		0.393	1.03		1
10146	Zirconium	7440-67-7	2.32	J	0.868	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	J	0.0608	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.84		0.0811	0.405		2
06126	Barium	7440-39-3	74.4		0.109	0.405		2
06127	Beryllium	7440-41-7	0.340		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.141		0.0405	0.101		2
06131	Chromium	7440-47-3	9.68		0.122	0.405		2
06132	Cobalt	7440-48-4	3.59		0.0203	0.101		2
06133	Copper	7440-50-8	7.72		0.0675	0.409		2
06135	Lead	7439-92-1	3.59		0.0105	0.203		2
06138	Molybdenum	7439-98-7	0.408		0.0507	0.101		2
06139	Nickel	7440-02-0	5.64		0.101	0.405		2
06141	Selenium	7782-49-2	0.0590	J	0.0405	0.405		2
06142	Silver	7440-22-4	0.0164	J	0.0122	0.101		2
06145	Thallium	7440-28-0	0.246		0.0304	0.101		2
06148	Vanadium	7440-62-2	22.0		0.0223	0.101		2
06149	Zinc	7440-66-6	57.8		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.84	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-287-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186945
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:53 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2879 SDG#: DE064-09

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.4	U	9.4	31.3		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.24	J	0.21	1.0		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	390		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**			**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	4.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011	17:43	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011	15:18	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011	10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011	19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/03/2011	05:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110245708002	01/25/2011	20:07	John P Hook	1
07914	Boron	SW-846 6010B	1	110245708002	01/25/2011	20:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	110245708002	01/25/2011	20:07	John P Hook	1
01654	Iron	SW-846 6010B	1	110245708002	01/25/2011	20:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	110245708002	01/25/2011	20:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110245708002	01/25/2011	20:07	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-287-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186945
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:53 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2879 SDG#: DE064-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110245708002	01/25/2011 20:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110245708002	01/25/2011 20:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	110245708002	01/25/2011 20:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	110245708002	01/25/2011 20:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	110245708002	01/25/2011 20:07	John P Hook	1
06969	Tin	SW-846 6010B	1	110245708002	01/25/2011 20:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	110245708002	01/25/2011 20:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110245708002	01/25/2011 20:07	John P Hook	1
06124	Antimony	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06125	Arsenic	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06126	Barium	SW-846 6020	1	110241026001D	01/31/2011 21:44	David K Beck	2
06127	Beryllium	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06128	Cadmium	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06131	Chromium	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06133	Copper	SW-846 6020	1	110331026001A	02/07/2011 05:19	David K Beck	2
06135	Lead	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110241026001C	01/31/2011 21:44	David K Beck	2
06139	Nickel	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06141	Selenium	SW-846 6020	1	110241026001B	01/31/2011 21:44	David K Beck	2
06142	Silver	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06145	Thallium	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
06149	Zinc	SW-846 6020	1	110241026001A	01/31/2011 21:44	David K Beck	2
00159	Mercury	SW-846 7471A	1	110245711003	01/25/2011 19:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110245708002	01/24/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110241026001	01/24/2011 20:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110331026001	02/02/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110245711003	01/24/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 14:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11032621201A	02/09/2011 09:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11033243201A	02/04/2011 14:40	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11032621201A	02/08/2011 12:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.97
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.97
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.97
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.97
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.97
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.97
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.97
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.97
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.97
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.97
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.97
06192	Methylene Chloride	75-09-2	0.96	J	0.25	4.2		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.97

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Sample Description: SL-049-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.97
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.97
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	J	18.2	36.3		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 22.9 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.87	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.52	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	3.4		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg. The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1

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Sample Description: SL-049-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

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S0494 SDG#: DE064-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.4		0.42	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Sample results from the reextract batch are similar to original extraction data.

GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	3.0		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	9.4		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1

C21-C30 was detected in the method blank at a concentration of .50 mg/kg. The sample was reextracted within the method hold time. C21-C30 and C30-C40 were detected in the reextracted method blank at 2.5 mg/kg and 8.7 mg/kg, respectively. A third extraction was performed outside the method hold time. All batch QC results from the third extraction are within the limits. Since the hold time had expired prior to the reextraction, all results are reported from the original extraction.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The C21-C30 and C30-C30 sample results for the second extraction are 3.8 mg/kg and 13 mg/kg, respectively. The C21-C30 and C30-C30 sample results for the third extraction are 2.1 mg/kg and 5.6 mg/kg, respectively.								
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,700		5.48	21.8		1
07914	Boron	7440-42-8	2.21	J	0.969	5.45		1
01650	Calcium	7440-70-2	5,240		6.68	21.8		1
01654	Iron	7439-89-6	20,700		5.13	21.8		1
01656	Lithium	7439-93-2	20.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,220		2.77	10.9		1
06958	Manganese	7439-96-5	260		0.0850	0.545		1
10145	Phosphorus	7723-14-0	271		0.610	10.9		1
01662	Potassium	7440-09-7	2,680		19.6	54.5		1
01667	Sodium	7440-23-5	80.5	J	40.6	109		1
07968	Strontium	7440-24-6	21.3		0.0675	0.545		1
06969	Tin	7440-31-5	2.52	J	1.09	10.9		1
06970	Titanium	7440-32-6	981		0.414	1.09		1
10146	Zirconium	7440-67-7	3.31	J	0.915	5.45		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0713	J	0.0641	0.214		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.								
06125	Arsenic	7440-38-2	3.04		0.0854	0.427		2
06126	Barium	7440-39-3	74.7		0.115	0.427		2
06127	Beryllium	7440-41-7	0.395		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.120		0.0427	0.107		2
06131	Chromium	7440-47-3	11.4		0.128	0.427		2
06132	Cobalt	7440-48-4	4.69		0.0214	0.107		2
06133	Copper	7440-50-8	4.40		0.0691	0.419		2
06135	Lead	7439-92-1	6.09		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.257		0.0534	0.107		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	6.85		0.107	0.427		2
06141	Selenium		7782-49-2	0.0584	J	0.0427	0.427		2
06142	Silver		7440-22-4	0.0235	J	0.0128	0.107		2
06145	Thallium		7440-28-0	0.187		0.0320	0.107		2
06148	Vanadium		7440-62-2	23.7		0.0235	0.107		2
06149	Zinc		7440-66-6	50.9		0.598	3.20		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	4.2		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate		14797-55-8	1.4	J	0.87	1.6		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.8	U	9.8	32.7		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.19	U	0.19	0.52		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	348		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.25		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	8.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 18:02	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110212AA	01/21/2011 18:22	Jason M Long	24.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:06	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:17	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102023551	01/20/2011 20:17	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102023551	01/20/2011 20:03	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11020SLE026	01/30/2011 10:44	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 18:18	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 15:50	Dale R Stoneroad	1
11630	NDMA Soil Microwave	SW-846 3546	1	11020SLE026	01/21/2011 10:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34B	01/21/2011 19:46	Marie D John	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:02	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 15:33	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 18:09	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011 02:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250009A	01/28/2011 10:36	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 04:09	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 00:17	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250010A	01/29/2011 03:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250009A	01/25/2011 16:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250010A	01/25/2011 17:30	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
07914	Boron	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
01650	Calcium	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1

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Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
01656	Lithium	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
06958	Manganese	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
01662	Potassium	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
01667	Sodium	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
07968	Strontium	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
06969	Tin	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
06970	Titanium	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110245708002	01/25/2011 20:18	John P Hook	1
06124	Antimony	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06125	Arsenic	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06126	Barium	SW-846 6020	1	110241026001D	01/31/2011 21:47	David K Beck	2
06127	Beryllium	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06128	Cadmium	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06131	Chromium	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06132	Cobalt	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06133	Copper	SW-846 6020	1	110331026001A	02/07/2011 05:21	David K Beck	2
06135	Lead	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110241026001C	01/31/2011 21:47	David K Beck	2
06139	Nickel	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06141	Selenium	SW-846 6020	1	110241026001B	01/31/2011 21:47	David K Beck	2
06142	Silver	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06145	Thallium	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06148	Vanadium	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
06149	Zinc	SW-846 6020	1	110241026001A	01/31/2011 21:47	David K Beck	2
00159	Mercury	SW-846 7471A	1	110245711003	01/25/2011 19:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110245708002	01/24/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110241026001	01/24/2011 20:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110331026001	02/02/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110245711003	01/24/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201A	02/02/2011 15:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11032032201A	02/02/2011 15:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201A	02/02/2011 18:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11033243201A	02/04/2011 14:59	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:20	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201A	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201A	02/02/2011 07:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1

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Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186946
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0494 SDG#: DE064-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-049-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0499 SDG#: DE064-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.98
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.98
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.98
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.98
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.98
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.98
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.98
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.98
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.98
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.98
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.98
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.98
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.98
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.98
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.98
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.98
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.98
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.98
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.98
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.98
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.98
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.98
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.98
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.98
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.98
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.98
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.98
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.98
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.98
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.98
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.98
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.98
06192	Methylene Chloride	75-09-2	1.2	J	0.24	4.0		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.98

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Sample Description: SL-049-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0499 SDG#: DE064-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.98
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.98
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.98
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.98
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.98
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.98
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.98
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		24.13
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.1	J	17.3	34.5		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 22.9 ng/kg. The blank value was not subtracted from the analytical result.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1

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Sample Description: SL-049-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0499 SDG#: DE064-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0499 SDG#: DE064-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	2.0		0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg. The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		27.59
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	620	U	620	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	2.1		0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Sample results from the reextract batch are similar to original extraction data, except Aroclor 5460 was not detected in the reextraction.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	2.7		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	9.2		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1

The method blank has contamination in the C21-C30 range at 2.5 mg/kg and C30-C40 range at 8.7 mg/kg. A reextraction was performed outside the sample hold time. All QC in the reextraction is within the method limits. Similar sample patterns were observed in both extractions. The results for the second extraction are C21-C30 at 3.6 mg/kg and C30-C40 at 15 mg/kg. The client was notified and the original extraction data is reported.

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Sample Description: SL-049-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

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14420 Albemarle Point Place
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S0499 SDG#: DE064-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	3,240		5.01	19.9		1
07914	Boron	7440-42-8	0.886	U	0.886	4.98		1
01650	Calcium	7440-70-2	8,510		6.10	19.9		1
01654	Iron	7439-89-6	5,070		4.69	19.9		1
01656	Lithium	7439-93-2	2.8		0.22	2.0		1
01657	Magnesium	7439-95-4	973		2.53	9.95		1
06958	Manganese	7439-96-5	92.5		0.0776	0.498		1
10145	Phosphorus	7723-14-0	314		0.557	9.95		1
01662	Potassium	7440-09-7	542		17.9	49.8		1
01667	Sodium	7440-23-5	77.4	J	37.1	99.5		1
07968	Strontium	7440-24-6	16.5		0.0617	0.498		1
06969	Tin	7440-31-5	1.24	J	0.995	9.95		1
06970	Titanium	7440-32-6	245		0.378	0.995		1
10146	Zirconium	7440-67-7	2.62	J	0.836	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0609	U	0.0609	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.55		0.0812	0.406		2
06126	Barium	7440-39-3	23.6		0.110	0.406		2
06127	Beryllium	7440-41-7	0.140		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.0667	J	0.0406	0.101		2
06131	Chromium	7440-47-3	10.1		0.122	0.406		2
06132	Cobalt	7440-48-4	2.09		0.0203	0.101		2
06133	Copper	7440-50-8	2.84		0.0657	0.398		2
06135	Lead	7439-92-1	1.99		0.0106	0.203		2
06138	Molybdenum	7439-98-7	0.618		0.0507	0.101		2
06139	Nickel	7440-02-0	5.31		0.101	0.406		2
06141	Selenium	7782-49-2	0.101	J	0.0406	0.406		2
06142	Silver	7440-22-4	0.0122	U	0.0122	0.101		2

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SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0499 SDG#: DE064-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.0449	J	0.0304	0.101		2
06148	Vanadium	7440-62-2	12.4		0.0223	0.101		2
06149	Zinc	7440-66-6	14.6		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	348		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	3.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0499 SDG#: DE064-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 18:25	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110212AA	01/21/2011 18:41	Jason M Long	24.13
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:12	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:17	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102023551	01/20/2011 20:17	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102023551	01/20/2011 20:09	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11020SLE026	01/30/2011 11:01	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 18:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 16:23	Dale R Stoneroad	1
11630	NDMA Soil Microwave	SW-846 3546	1	11020SLE026	01/21/2011 10:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11019A34B	01/21/2011 20:23	Marie D John	27.59
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:08	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220004A	01/26/2011 16:15	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 18:19	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011 02:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220004A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110310015A	02/02/2011 02:52	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/25/2011 22:31	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 00:35	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250010A	01/29/2011 04:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	3	110310015A	02/01/2011 03:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250010A	01/25/2011 17:30	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
07914	Boron	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1

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Sample Description: **SL-049-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0499 SDG#: DE064-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
01654	Iron	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
06969	Tin	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110245708002	01/25/2011 20:22	John P Hook	1
06124	Antimony	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06126	Barium	SW-846 6020	1	110241026001D	01/31/2011 21:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06131	Chromium	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06133	Copper	SW-846 6020	1	110331026001A	02/07/2011 23:39	David K Beck	2
06135	Lead	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110241026001C	01/31/2011 21:57	David K Beck	2
06139	Nickel	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110241026001B	01/31/2011 21:57	David K Beck	2
06142	Silver	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110241026001A	01/31/2011 21:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	110245711003	01/25/2011 19:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110245708002	01/24/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110241026001	01/24/2011 20:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110331026001	02/02/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110245711003	01/24/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201B	02/02/2011 15:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11032032201B	02/02/2011 15:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201B	02/02/2011 18:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11033243201A	02/04/2011 15:05	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:21	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201B	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201B	02/02/2011 07:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1

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Sample Description: **SL-049-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186947
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0499 SDG#: DE064-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11021182102B	01/21/2011 10:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039402B	01/21/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-031-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186948
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE064-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.85
06192	Methylene Chloride	75-09-2	0.61	J	0.24	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

*=This limit was used in the evaluation of the final result
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Sample Description: SL-031-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186948
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE064-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.29
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186948
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE064-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	2.3		0.77	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-031-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186948
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE064-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	1.3	J	0.77	1.9		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg.
The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	1.2	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. PCB-1254 was not detected in the reextraction.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.69	22.6		1
07914	Boron	7440-42-8	1.37	J	1.01	5.66		1
01650	Calcium	7440-70-2	2,510		6.94	22.6		1
01654	Iron	7439-89-6	17,300		5.33	22.6		1
01656	Lithium	7439-93-2	14.7		0.25	2.3		1
01657	Magnesium	7439-95-4	3,380		2.88	11.3		1
06958	Manganese	7439-96-5	425		0.0883	0.566		1
10145	Phosphorus	7723-14-0	228		0.634	11.3		1
01662	Potassium	7440-09-7	2,520		20.4	56.6		1
01667	Sodium	7440-23-5	241		42.2	113		1
07968	Strontium	7440-24-6	24.0		0.0702	0.566		1
06969	Tin	7440-31-5	2.53	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,100		0.430	1.13		1
10146	Zirconium	7440-67-7	3.79	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186948
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE064-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0743 J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.77	0.0888	0.444		2
06126	Barium	7440-39-3	96.0	0.120	0.444		2
06127	Beryllium	7440-41-7	0.501	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.118	0.0444	0.111		2
06131	Chromium	7440-47-3	15.1	0.133	0.444		2
06132	Cobalt	7440-48-4	4.77	0.0222	0.111		2
06133	Copper	7440-50-8	11.9	0.0747	0.453		2
06135	Lead	7439-92-1	4.74	0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.576	0.0555	0.111		2
06139	Nickel	7440-02-0	8.49	0.111	0.444		2
06141	Selenium	7782-49-2	0.113 J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0232 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.244	0.0333	0.111		2
06148	Vanadium	7440-62-2	28.2	0.0244	0.111		2
06149	Zinc	7440-66-6	40.2	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.8	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	282	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.94	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-031-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186948
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE064-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-031-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 18:47	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110212AA	01/21/2011 19:01	Jason M Long	20.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102023551	01/20/2011 19:49	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102023551	01/20/2011 20:17	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102023551	01/20/2011 20:16	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102023551	01/20/2011 19:47	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011 19:28	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011 16:55	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011 19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011 02:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
07914	Boron	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
01654	Iron	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
06969	Tin	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110245708002	01/25/2011 20:26	John P Hook	1
06124	Antimony	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06126	Barium	SW-846 6020	1	110241026001D	01/31/2011 22:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186948
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE064-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06133	Copper	SW-846 6020	1	110331026001A	02/07/2011 05:29	David K Beck	2
06135	Lead	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110241026001C	01/31/2011 22:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110241026001B	01/31/2011 22:00	David K Beck	2
06142	Silver	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110241026001A	01/31/2011 22:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110245711003	01/25/2011 19:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110245708002	01/24/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110241026001	01/24/2011 20:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110331026001	02/02/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110245711003	01/24/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201B	02/02/2011 16:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201B	02/02/2011 19:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11033243201A	02/04/2011 15:24	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201B	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201B	02/02/2011 07:55	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182104A	01/21/2011 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039404A	01/21/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-031-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

LLI Sample # SW 6186949
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:05 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE064-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

LLI Sample # SW 6186949
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:05 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE064-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	1.9		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1

Naphthalene was detected in the method blank at a concentration of 2.10 ug/kg. The blank value was not subtracted from the analytical result.

The sample was re-extracted outside of the method required holding time. There were no detections in the method blank and the data was comparable between the two extractions. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

LLI Sample # SW 6186949
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:05 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE064-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.36	21.3		1
07914	Boron	7440-42-8	1.02	J	0.949	5.33		1
01650	Calcium	7440-70-2	2,490		6.53	21.3		1
01654	Iron	7439-89-6	21,600		5.02	21.3		1
01656	Lithium	7439-93-2	27.4		0.23	2.1		1
01657	Magnesium	7439-95-4	4,600		2.71	10.7		1
06958	Manganese	7439-96-5	272		0.0831	0.533		1
10145	Phosphorus	7723-14-0	347		0.597	10.7		1
01662	Potassium	7440-09-7	3,400		19.2	53.3		1
01667	Sodium	7440-23-5	134		39.8	107		1
07968	Strontium	7440-24-6	16.7		0.0661	0.533		1
06969	Tin	7440-31-5	2.85	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,160		0.405	1.07		1
10146	Zirconium	7440-67-7	3.60	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0807	J	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.27		0.0853	0.426		2
06126	Barium	7440-39-3	81.1		0.115	0.426		2
06127	Beryllium	7440-41-7	0.575		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.124		0.0426	0.107		2
06131	Chromium	7440-47-3	14.8		0.128	0.426		2
06132	Cobalt	7440-48-4	5.19		0.0213	0.107		2
06133	Copper	7440-50-8	8.61		0.0690	0.418		2
06135	Lead	7439-92-1	5.34		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.344		0.0533	0.107		2
06139	Nickel	7440-02-0	9.10		0.107	0.426		2
06141	Selenium	7782-49-2	0.141	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0256	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.251		0.0320	0.107		2
06148	Vanadium	7440-62-2	30.1		0.0234	0.107		2
06149	Zinc	7440-66-6	54.2		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.86	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

LLI Sample # SW 6186949
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:05 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE064-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	271		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11024SLE026	01/28/2011	20:03	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11022SLA026	01/28/2011	17:27	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11022SLA026	01/24/2011	10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11024SLE026	01/24/2011	19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110240031A	02/01/2011	03:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110240031A	01/25/2011	03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110245708002	01/25/2011	20:30	John P Hook	1
07914	Boron	SW-846 6010B	1	110245708002	01/25/2011	20:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	110245708002	01/25/2011	20:30	John P Hook	1
01654	Iron	SW-846 6010B	1	110245708002	01/25/2011	20:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	110245708002	01/25/2011	20:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110245708002	01/25/2011	20:30	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

LLI Sample # SW 6186949
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:05 by CP

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE064-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110245708002	01/25/2011 20:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110245708002	01/25/2011 20:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	110245708002	01/25/2011 20:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	110245708002	01/25/2011 20:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	110245708002	01/25/2011 20:30	John P Hook	1
06969	Tin	SW-846 6010B	1	110245708002	01/25/2011 20:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	110245708002	01/25/2011 20:30	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110245708002	01/25/2011 20:30	John P Hook	1
06124	Antimony	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06126	Barium	SW-846 6020	1	110241026001D	01/31/2011 22:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06133	Copper	SW-846 6020	1	110331026001A	02/07/2011 05:31	David K Beck	2
06135	Lead	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110241026001C	01/31/2011 22:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110241026001B	01/31/2011 22:03	David K Beck	2
06142	Silver	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
06149	Zinc	SW-846 6020	1	110241026001A	01/31/2011 22:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110245711003	01/25/2011 19:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110245708002	01/24/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110241026001	01/24/2011 20:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110331026001	02/02/2011 19:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110245711003	01/24/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11032032201B	02/02/2011 16:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201B	02/02/2011 20:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11033243201A	02/04/2011 15:36	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11032032201B	02/01/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201B	02/02/2011 07:55	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11021182104A	01/21/2011 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11021039404A	01/21/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11033243201A	02/02/2011 10:20	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-011911 Water**
SSFL Area IV Collocated Soil Sampling
TB-011911

LLI Sample # WW 6186950
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 08:00

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB119 SDG#: DE064-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-011911 Water
SSFL Area IV Collocated Soil Sampling
TB-011911

LLI Sample # WW 6186950
LLI Group # 1229767
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 08:00

Submitted: 01/20/2011 09:10
Reported: 02/15/2011 10:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB119 SDG#: DE064-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110241AA	01/24/2011	13:51	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110211AA	01/21/2011	12:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110211AA	01/21/2011	12:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110241AA	01/24/2011	13:51	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11024B20A	01/24/2011	18:36	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	11024B20A	01/24/2011	18:36	Martha L Seidel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110241AA	Sample number(s): 6186937,6186939,6186941,6186943-6186944,6186946-6186948									
Acetone	6.7	U	6.7	8.0	ug/kg	144		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	98		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	88		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	102		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	69		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	106		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	85		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	85		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	81		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	94		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	87		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	76		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	88		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	88		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	158*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	81		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	95		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	91		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	89		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	91		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	63		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	95		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	100		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	90		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	88		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	93		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	82		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	81		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	88		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	97		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	98		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	88		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	73		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	86		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	67		61-134		
Methylene Chloride	0.50	J	0.24	4.0	ug/kg	92		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	88		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	92		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	96		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	84		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106		77-120		
Toluene	0.25	J	0.08	4.0	ug/kg	94		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	80		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	95		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	80		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	88		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	87		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	86		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	71		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	85		80-120		
Batch number: E110211AA	Sample number(s): 6186950									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	104	60-132	1	30
Batch number: E110212AA	Sample number(s): 6186937,6186939,6186941,6186943-6186944,6186946-6186948									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	102	70-130	6	30
Batch number: Y110241AA	Sample number(s): 6186950									
Acetone	6	U	6.	20	ug/l	115	113	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	98	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	106	102	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	110	110	80-120	0	30
Bromoform	1	U	1.	5	ug/l	100	96	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	113	115	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	101	97	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	96	93	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	101	97	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	111	111	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	94	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	116	117	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	102	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	111	110	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	121	126	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	100	96	80-120	4	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	95	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	98	97	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	109	104	66-120	5	30
Dibromochloromethane	1	U	1.	5	ug/l	103	98	80-120	6	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	96	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	108	104	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	91	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	93	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	93	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	107	107	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	103	79-120	1	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	122	121	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	106	104	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	100	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	98	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	98	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	114	111	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	101	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	103	101	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	94	79-120	5	30
Freon 113	2	U	2.	10	ug/l	102	102	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	88	87	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	101	95	65-136	6	30
Isopropylbenzene	1	U	1.	5	ug/l	98	93	77-120	6	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	97	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	109	105	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	101	98	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	112	108	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	101	98	80-120	4	30
Styrene	1	U	1.	5	ug/l	96	94	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	100	97	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	97	96	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	97	93	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	97	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	94	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	96	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	98	95	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	102	100	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	113	112	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	109	102	80-120	7	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	98	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	98	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	97	97	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	93	80-120	4	30
o-Xylene	0.8	U	0.8	5	ug/l	96	92	80-120	4	30
Batch number: 11020SLE026	Sample number(s): 6186943,6186946-6186947									
N-Nitrosodimethylamine	22.9	J	16.7	33.3	ng/kg	95		70-130		
Batch number: 11022SLA026	Sample number(s): 6186937-6186949									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	99		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	110		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	115		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	118		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	123		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		70-130		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	114		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	86		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	2.1		0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	75		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		56-121		
Batch number: 11024SLE026	Sample number(s): 6186937-6186949									
Aniline	170	U	170.	500	ug/kg	52		10-107		
Benzidine	1,200	U	1,200.	3,300	ug/kg	62		15-121		
Benzoic acid	170	U	170.	500	ug/kg	82		10-154		
Benzyl alcohol	170	U	170.	500	ug/kg	81		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	86		79-117		
Carbazole	17	U	17.	170	ug/kg	86		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	79		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	79		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	85		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	87		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	80		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	78		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	79		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	40		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	75		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	89		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	94		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	88		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	87		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	85		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	83		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	95		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	88		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	74		35-106		
Phenol	17	U	17.	170	ug/kg	86		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	89		78-111		
Batch number: 11019A34B	Sample number(s): 6186943,6186946-6186947									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	73	67-119	1	30
Batch number: 11024B20A	Sample number(s): 6186950									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 110220004A	Sample number(s): 6186943,6186946-6186947									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	104		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	97	101	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	101	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	103		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100	U	100.	300	ug/kg	96		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	100		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	101		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800	U	800.	2,400	ug/kg	108		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	102		80-120		
Batch number: 110240009A	Sample number(s): 6186943,6186946-6186947									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	90		80-126		
Batch number: 110200023A	Sample number(s): 6186944									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110240031A	Sample number(s): 6186937-6186949									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	57*	61*	75-125	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	132		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110250009A	Sample number(s): 6186943,6186946									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C21-C30)	0.50	J	0.40	1.2	mg/kg	96		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		66-113		
Batch number: 110310015A	Sample number(s): 6186947									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	104		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		66-113		
EFH (C21-C30)	2.5		0.40	1.2	mg/kg	109		66-113		
EFH (C30 - C40)	8.7		0.40	1.2	mg/kg	107		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	95		66-113		
Batch number: 110240003A	Sample number(s): 6186943,6186946-6186947									
Diethylene glycol	5.0	U	5.0	13	mg/kg	113		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 110250022A	Sample number(s): 6186947									
Ethanol	100 U		100.	500	ug/kg	96		75-112		
Isopropanol	100 U		100.	500	ug/kg	96		75-125		
Methanol	100 U		100.	500	ug/kg	93		75-134		
Batch number: 110250023A	Sample number(s): 6186943,6186946									
Ethanol	100 U		100.	500	ug/kg	98		75-112		
Isopropanol	100 U		100.	500	ug/kg	99		75-125		
Methanol	100 U		100.	500	ug/kg	99		75-134		
Batch number: 110250010A	Sample number(s): 6186943,6186946-6186947									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	86		75-125		
Batch number: 110211026001A	Sample number(s): 6186937-6186943									
Antimony	0.0600	U	0.0600	0.200	mg/kg	124		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	106		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	97		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	100		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	106		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		81-119		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vanadium	0.0220	U	0.0220	0.100	mg/kg	101		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 110211026001B	Sample number(s): 6186937-6186943									
Selenium	0.0400	U	0.0400	0.400	mg/kg	103		79-122		
Batch number: 110211026001C	Sample number(s): 6186937-6186943									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 110211026001D	Sample number(s): 6186937-6186943									
Barium	0.108	U	0.108	0.400	mg/kg	102		79-121		
Batch number: 110215708002	Sample number(s): 6186937-6186943									
Aluminum	5.03	U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	90		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	6.17	J	4.71	20.0	mg/kg	107		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	108		81-119		
Phosphorus	1.61	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		79-121		
Tin	1.05	J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	104		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110215711002	Sample number(s): 6186937-6186943									
Mercury	0.0028	U	0.0028	0.0976	mg/kg	105		88-123		
Batch number: 110241026001A	Sample number(s): 6186944-6186949									
Antimony	0.0600	U	0.0600	0.200	mg/kg	109		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	99		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	102		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	104		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	106		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		82-118		
Lead	0.0159	J	0.0104	0.200	mg/kg	99		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	107		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	100		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	105		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	98		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	106		78-122		
Batch number: 110241026001B	Sample number(s): 6186944-6186949									
Selenium	0.0400	U	0.0400	0.400	mg/kg	104		79-122		
Batch number: 110241026001C	Sample number(s): 6186944-6186949									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	103		78-122		
Batch number: 110241026001D	Sample number(s): 6186944-6186949									
Barium	0.108	U	0.108	0.400	mg/kg	114		79-121		
Batch number: 110245708002	Sample number(s): 6186944-6186949									
Aluminum	5.03	U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	95		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	95		88-110		

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Iron	4.71	U	4.71	20.0	mg/kg	108		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	97		81-119		
Phosphorus	1.69	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	106		79-121		
Tin	1.33	J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	100		80-120		
Batch number: 110245711003	Sample number(s): 6186944-6186949									
Mercury	0.0028	U	0.0028	0.0964	mg/kg	102		88-123		
Batch number: 110331026001A	Sample number(s): 6186944-6186949									
Copper	0.0660	U	0.0660	0.400	mg/kg	108		80-120		
Batch number: 11028102201A	Sample number(s): 6186943,6186946-6186947									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11032032201A	Sample number(s): 6186937-6186946									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11032032201B	Sample number(s): 6186947-6186949									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11032621201A	Sample number(s): 6186937-6186946									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11032621201B	Sample number(s): 6186947-6186949									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11033243201A	Sample number(s): 6186937-6186949									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	85		80-120		
Batch number: 11021039402B	Sample number(s): 6186937-6186947									
22a pH by 9045C						100		95-105		
Batch number: 11021039404A	Sample number(s): 6186948-6186949									
22a pH by 9045C						101		95-105		
Batch number: 11021182102B	Sample number(s): 6186937-6186947									
32a OR Potential						99		98-102		
Batch number: 11021182104A	Sample number(s): 6186948-6186949									
32a OR Potential						99		98-102		
Batch number: 11027162401A	Sample number(s): 6186937-6186942,6186944-6186945,6186948-6186949									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11032162401A	Sample number(s): 6186943,6186946-6186947									
28a Moisture Content by 160.3						100		80-120		

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Quality Control Summary

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Reported: 02/15/11 at 10:52 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110241AA	Sample number(s): 6186937,6186939,6186941,6186943-6186944,6186946-6186948 UNSPK: P189705								
Acetone	88	121	15-210	43*	30				
Benzene	99	101	55-143	13	30				
Bromobenzene	79	85	43-139	18	30				
Bromochloromethane	109	110	60-137	12	30				
Bromodichloromethane	94	94	53-136	11	30				
Bromoform	94	93	38-124	11	30				
Bromomethane	72	69	42-168	6	30				
2-Butanone	70	87	37-163	33*	30				
n-Butylbenzene	62	70	30-146	24	30				
sec-Butylbenzene	67	75	33-157	22	30				
tert-Butylbenzene	69	76	41-152	21	30				
Carbon Tetrachloride	110	110	45-153	12	30				
Chlorobenzene	88	92	49-135	16	30				
Chloroethane	71	66	39-152	4	30				
2-Chloroethyl Vinyl Ether	74	74	32-139	11	30				
Chloroform	104	102	61-142	10	30				
Chloromethane	77	68	51-163	1	30				
2-Chlorotoluene	74	81	42-146	20	30				
4-Chlorotoluene	73	80	39-145	21	30				
Chlorotrifluoroethene	173*	163*	70-130	11	30				
1,2-Dibromo-3-chloropropane	64	68	30-139	18	30				
Dibromochloromethane	96	94	51-128	9	30				
1,2-Dibromoethane	90	92	54-129	13	30				
Dibromomethane	96	97	57-130	12	30				
1,2-Dichlorobenzene	75	84	36-133	23	30				
1,3-Dichlorobenzene	73	80	34-134	21	30				
1,4-Dichlorobenzene	73	81	35-136	22	30				
Dichlorodifluoromethane	73	68	26-151	5	30				
1,1-Dichloroethane	99	99	63-142	11	30				
1,2-Dichloroethane	96	94	68-131	10	30				
1,1-Dichloroethene	110	108	61-149	10	30				
cis-1,2-Dichloroethene	103	104	60-136	12	30				
trans-1,2-Dichloroethene	106	110	59-142	15	30				
1,2-Dichloropropane	90	91	62-135	12	30				
1,3-Dichloropropane	84	84	58-129	12	30				
2,2-Dichloropropane	103	103	53-147	11	30				
1,1-Dichloropropene	94	97	54-145	15	30				
cis-1,3-Dichloropropene	77	79	51-131	14	30				
trans-1,3-Dichloropropene	75	76	49-129	13	30				
Ethylbenzene	80	85	44-141	18	30				
Freon 113	114	112	56-156	10	30				
Freon 133a	104	99	70-130	12	30				
Hexachlorobutadiene	60	67	10-155	23	30				
2-Hexanone	49	55	32-160	24	30				
Isopropylbenzene	75	81	38-144	19	30				
p-Isopropyltoluene	65	74	29-152	24	30				
Methyl Tertiary Butyl Ether	90	89	55-129	10	30				
4-Methyl-2-pentanone	55	57	46-139	15	30				

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Methylene Chloride	95	92	61-141	9	30				
n-Propylbenzene	73	80	39-157	21	30				
Styrene	82	87	35-134	18	30				
1,1,1,2-Tetrachloroethane	98	99	52-130	12	30				
1,1,2,2-Tetrachloroethane	77	79	40-152	13	30				
Tetrachloroethene	97	103	42-149	17	30				
Toluene	92	96	50-146	16	30				
1,2,3-Trichlorobenzene	51	67	10-140	38*	30				
1,2,4-Trichlorobenzene	46	58	10-136	33*	30				
1,1,1-Trichloroethane	119	106	64-142	1	30				
1,1,2-Trichloroethane	93	93	54-139	11	30				
Trichloroethene	96	100	53-144	15	30				
Trichlorofluoromethane	95	87	47-163	4	30				
1,2,3-Trichloropropane	81	82	45-154	13	30				
1,2,4-Trimethylbenzene	71	78	37-149	21	30				
1,3,5-Trimethylbenzene	71	78	38-150	21	30				
Vinyl Chloride	76	72	50-154	6	30				
m+p-Xylene	86	91	44-137	17	30				
o-Xylene	75	81	42-137	19	30				
Batch number: 11020SLE026	Sample number(s): 6186943,6186946-6186947 UNSPK: P185954								
N-Nitrosodimethylamine	76	80	70-130	6	30				
Batch number: 11022SLA026	Sample number(s): 6186937-6186949 UNSPK: 6186940								
Acenaphthene	85	86	63-105	2	30				
Acenaphthylene	85	85	55-126	0	30				
Anthracene	90	91	46-136	2	30				
Benzo(a)anthracene	92	95	39-144	3	30				
Benzo(a)pyrene	102	108	34-156	6	30				
Benzo(b)fluoranthene	132	134	43-155	2	30				
Benzo(g,h,i)perylene	53	61	33-141	13	30				
Benzo(k)fluoranthene	117	141	42-144	19	30				
Butylbenzylphthalate	90	94	73-140	4	30				
Di-n-butylphthalate	103	108	78-160	5	30				
Chrysene	88	92	29-156	5	30				
Dibenz(a,h)anthracene	61	71	41-130	15	30				
Diethylphthalate	92	98	87-131	7	30				
Dimethylphthalate	89	102	74-118	14	30				
Bis(2-Ethylhexyl)phthalate	105	157	39-167	40*	30				
Fluoranthene	87	94	26-166	8	30				
Fluorene	93	89	45-121	4	30				
Indeno(1,2,3-cd)pyrene	58	67	21-143	14	30				
1-Methylnaphthalene	89	85	72-123	4	30				
2-Methylnaphthalene	82	80	28-121	2	30				
Naphthalene	85	80	61-102	6	30				
N-Nitrosodimethylamine	82	84	48-113	3	30				
Di-n-octylphthalate	145	194*	40-192	29	30				
Phenanthrene	87	92	12-165	5	30				
Pyrene	86	88	15-153	2	30				
Batch number: 11024SLE026	Sample number(s): 6186937-6186949 UNSPK: 6186937								
Aniline	42	40	14-114	5	30				
Benzidine	22*	19*	35-141	14	30				

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Benzoic acid	49	56	10-173	14	30				
Benzyl alcohol	82	86	55-123	4	30				
4-Bromophenyl-phenylether	84	93	67-129	10	30				
Carbazole	86	94	64-120	9	30				
4-Chloro-3-methylphenol	89	96	53-130	8	30				
4-Chloroaniline	40	44	23-95	9	30				
bis(2-Chloroethoxy)methane	87	99	54-117	12	30				
bis(2-Chloroethyl)ether	80	83	60-116	4	30				
bis(2-Chloroisopropyl)ether	77	84	55-142	8	30				
2-Chloronaphthalene	73	76	50-141	5	30				
2-Chlorophenol	86	90	73-121	5	30				
4-Chlorophenyl-phenylether	88	97	64-119	10	30				
Dibenzofuran	86	97	71-112	12	30				
1,2-Dichlorobenzene	81	85	66-108	4	30				
1,3-Dichlorobenzene	81	83	63-109	2	30				
1,4-Dichlorobenzene	79	84	53-113	6	30				
3,3'-Dichlorobenzidine	44	48	25-123	8	30				
2,4-Dichlorophenol	89	97	78-117	9	30				
2,4-Dimethylphenol	88	97	56-130	9	30				
3,5-Dimethylphenol	101	110	70-130	9	30				
4,6-Dinitro-2-methylphenol	67	75	10-148	11	30				
2,4-Dinitrophenol	46	60	20-143	27	30				
2,4-Dinitrotoluene	87	100	57-114	14	30				
2,6-Dinitrotoluene	88	99	69-123	11	30				
1,2-Diphenylhydrazine	93	104	71-129	10	30				
bis(2-Ethylhexyl)phthalate	90	97	63-122	8	30				
Hexachlorobenzene	86	93	61-111	8	30				
Hexachlorobutadiene	88	104	62-120	17	30				
Hexachlorocyclopentadiene	81	95	10-153	17	30				
Hexachloroethane	85	89	57-109	5	30				
Isophorone	84	95	51-118	12	30				
2-Methylphenol	87	89	47-142	2	30				
4-Methylphenol	83	86	55-126	3	30				
2-Nitroaniline	87	100	67-125	14	30				
3-Nitroaniline	86	95	59-122	9	30				
4-Nitroaniline	65	75	52-112	14	30				
Nitrobenzene	90	100	51-114	11	30				
2-Nitrophenol	84	92	74-115	9	30				
4-Nitrophenol	86	103	39-133	18	30				
N-Nitroso-di-n-propylamine	82	88	60-116	7	30				
N-Nitrosodiphenylamine	84*	93	86-145	11	30				
Pentachlorophenol	64	73	17-149	13	30				
Phenol	88	90	58-126	3	30				
1,2,4-Trichlorobenzene	83	92	72-115	11	30				
2,4,5-Trichlorophenol	87	97	34-139	10	30				
2,4,6-Trichlorophenol	88	101	49-140	14	30				
Batch number: 110220004A	Sample number(s): 6186943,6186946-6186947 UNSPK: P184383								
4-Amino-2,6-Dinitrotoluene	101	100	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	100	100	80-137	0	50				
1,3-Dinitrobenzene	99	98	38-166	1	50				
2,4-Dinitrotoluene	97	96	80-131	1	50				
2,6-Dinitrotoluene	101	100	80-127	2	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
HMX	91	90	63-128	2	50				
Nitrobenzene	96	96	80-125	0	50				
Nitroglycerin	91	90	80-120	1	50				
2-Nitrotoluene	103	100	80-122	3	50				
3-Nitrotoluene	97	97	72-119	0	50				
4-Nitrotoluene	96	97	80-125	0	50				
PETN	106	106	80-121	0	50				
RDX	95	93	75-129	2	50				
Tetryl	90	87	55-174	3	50				
1,3,5-Trinitrobenzene	101	98	82-126	2	50				
2,4,6-Trinitrotoluene	98	97	82-130	1	50				
Batch number: 110240009A	Sample number(s): 6186943,6186946-6186947 UNSPK: P189213								
17a Formaldehyde by 8315A	85	85	80-120	1	50				
Batch number: 110200023A	Sample number(s): 6186944 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110240031A	Sample number(s): 6186937-6186949 UNSPK: 6186937								
PCB-1016	85	85	29-146	1	50				
PCB-1260	103	97	39-149	6	50				
Batch number: 110250009A	Sample number(s): 6186943,6186946 UNSPK: 6186943								
EFH (C12-C14)	77	77	49-123	0	20				
EFH (C15-C20)	105	96	49-123	9	20				
EFH (C21-C30)	151*	110	49-123	32*	20				
EFH (C30 - C40)	110	89	49-123	21*	20				
EFH (C8-C11)	54	48*	49-123	12	20				
Batch number: 110310015A	Sample number(s): 6186947 UNSPK: P190381								
EFH (C12-C14)	111	107	49-123	3	20				
EFH (C15-C20)	174*	146*	49-123	17	20				
EFH (C21-C30)	200*	79	49-123	26*	20				
EFH (C30 - C40)	294 (2)	188 (2)	49-123	13	20				
EFH (C8-C11)	99	98	49-123	1	20				
Batch number: 110240003A	Sample number(s): 6186943,6186946-6186947 UNSPK: P189213								
Diethylene glycol	81	73	59-109	11	20				
Ethylene glycol	78	87	63-107	11	20				
Propylene glycol	77	87	63-107	13	20				
Batch number: 110250022A	Sample number(s): 6186947 UNSPK: P189213								
Ethanol	78	84	24-143	7	20				
Isopropanol	79	86	75-125	7	20				
Methanol	73	79	45-136	7	20				
Batch number: 110250023A	Sample number(s): 6186943,6186946 UNSPK: P189703								
Ethanol	79	80	24-143	1	20				
Isopropanol	80	81	75-125	1	20				
Methanol	57	61	45-136	3	20				
Batch number: 110250010A	Sample number(s): 6186943,6186946-6186947 UNSPK: 6186943								
m-Terphenyl	100	98	75-125	2	20				

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o-Terphenyl	100	98	75-125	2	20				
p-Terphenyl	88	86	75-125	3	20				
Batch number: 110211026001A	Sample number(s): 6186937-6186943 UNSPK: P185950 BKG: P185950								
Antimony	43*	42*	75-125	1	20	0.194 J	0.0796 J	84* (1)	20
Arsenic	87	103	75-125	6	20	3.94	3.78	4	20
Beryllium	87	88	75-125	1	20	0.406	0.366	10 (1)	20
Cadmium	95	92	75-125	2	20	0.141	0.134	5 (1)	20
Chromium	88	93	75-125	2	20	18.4	17.5	5	20
Cobalt	92	92	75-125	0	20	4.52	4.47	1	20
Copper	81	83	75-125	2	20	7.41	6.69	10	20
Lead	102	130*	75-125	11	20	4.40	4.25	3	20
Nickel	93	98	75-125	3	20	9.81	10.0	2	20
Silver	99	100	75-125	1	20	0.0229 J	0.0208 J	10 (1)	20
Thallium	90	96	75-125	5	20	0.201	0.206	2 (1)	20
Vanadium	87	100	75-125	4	20	30.5	28.9	5	20
Zinc	59 (2)	79 (2)	75-125	4	20	43.9	44.3	1	20
Batch number: 110211026001B	Sample number(s): 6186937-6186943 UNSPK: P185950 BKG: P185950								
Selenium	92	92	75-125	1	20	0.155 J	0.124 J	22* (1)	20
Batch number: 110211026001C	Sample number(s): 6186937-6186943 UNSPK: P185950 BKG: P185950								
Molybdenum	97	99	75-125	3	20	1.17	1.20	3	20
Batch number: 110211026001D	Sample number(s): 6186937-6186943 UNSPK: P185950 BKG: P185950								
Barium	24 (2)	63 (2)	75-125	5	20	77.3	74.4	4	20
Batch number: 110215708002	Sample number(s): 6186937-6186943 UNSPK: P185950 BKG: P185950								
Aluminum	1949 (2)	1870 (2)	75-125	1	20	12,100	12,500	3	20
Boron	95	97	84-115	2	20	0.873 U	0.864 U	0 (1)	20
Calcium	327 (2)	242 (2)	75-125	5	20	5,110	5,720	11	20
Iron	1533 (2)	-928 (2)	75-125	13	20	17,700	16,600	6	20
Lithium	102	102	82-114	0	20	14.0	15.2	9	20
Magnesium	315 (2)	269 (2)	75-125	2	20	3,490	3,630	4	20
Manganese	142 (2)	148 (2)	75-125	1	20	210	230	9	20
Phosphorus	132 (2)	112 (2)	75-125	4	20	398	431	8	20
Potassium	136*	132*	75-125	1	20	2,220	2,360	6	20
Sodium	99	98	75-125	1	20	200	193	4 (1)	20
Strontium	100	100	75-115	0	20	31.3	34.3	9	20
Tin	93	93	80-110	0	20	1.89 J	1.94 J	3 (1)	20
Titanium	339 (2)	313 (2)	75-125	2	20	904	959	6	20
Zirconium	98	98	75-125	0	20	3.61 J	4.61 J	24* (1)	20
Batch number: 110215711002	Sample number(s): 6186937-6186943 UNSPK: P185950 BKG: P185950								
Mercury	106	105	65-135	1	20	0.0078 J	0.0120 J	42* (1)	20
Batch number: 110241026001A	Sample number(s): 6186944-6186949 UNSPK: 6186944 BKG: 6186944								
Antimony	41*	36*	75-125	10	20	0.162 J	0.0795 J	68* (1)	20
Arsenic	105	117	75-125	4	20	3.31	3.42	3	20
Beryllium	85	85	75-125	0	20	0.425	0.393	8 (1)	20
Cadmium	93	98	75-125	5	20	0.0527 J	0.0504 J	4 (1)	20

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Chromium	86	86	75-125	0	20	10.3	9.95	3	20
Cobalt	88	88	75-125	0	20	3.45	3.50	1	20
Lead	90	91	75-125	0	20	3.77	3.71	2	20
Nickel	89	86	75-125	2	20	6.03	5.83	3	20
Silver	97	99	75-125	2	20	0.0200 J	0.0119 U	200* (1)	20
Thallium	81	87	75-125	5	20	0.229	0.201	13 (1)	20
Vanadium	86	86	75-125	0	20	21.9	21.2	3	20
Zinc	107 (2)	90 (2)	75-125	3	20	43.9	43.9	0	20
Batch number: 110241026001B	Sample number(s): 6186944-6186949 UNSPK: 6186944 BKG: 6186944								
Selenium	88	92	75-125	5	20	0.0784 J	0.0647 J	19 (1)	20
Batch number: 110241026001C	Sample number(s): 6186944-6186949 UNSPK: 6186944 BKG: 6186944								
Molybdenum	91	94	75-125	3	20	0.268	0.256	5 (1)	20
Batch number: 110241026001D	Sample number(s): 6186944-6186949 UNSPK: 6186944 BKG: 6186944								
Barium	82 (2)	76 (2)	75-125	1	20	61.0	62.5	2	20
Batch number: 110245708002	Sample number(s): 6186944-6186949 UNSPK: 6186944 BKG: 6186944								
Aluminum	1680 (2)	1298 (2)	75-125	5	20	12,100	12,000	1	20
Boron	104	103	84-115	0	20	1.32 J	1.24 J	6 (1)	20
Calcium	198 (2)	115 (2)	75-125	13	20	1,940	2,000	3	20
Iron	254 (2)	-393 (2)	75-125	4	20	17,600	17,500	1	20
Lithium	100	101	82-114	1	20	17.2	18.3	6	20
Magnesium	287 (2)	227 (2)	75-125	3	20	3,170	3,250	3	20
Manganese	132*	114	75-125	3	20	191	255	29*	20
Phosphorus	135*	127*	75-125	2	20	231	268	15	20
Potassium	119	117	75-125	0	20	2,280	2,270	1	20
Sodium	99	99	75-125	0	20	305	311	2 (1)	20
Strontium	106	104	75-115	1	20	12.9	13.1	1	20
Tin	89	90	80-110	2	20	2.50 J	2.17 J	14 (1)	20
Titanium	239 (2)	194 (2)	75-125	4	20	896	864	4	20
Zirconium	96	96	75-125	2	20	2.42 J	2.61 J	8 (1)	20
Batch number: 110245711003	Sample number(s): 6186944-6186949 UNSPK: 6186944 BKG: 6186944								
Mercury	107	106	65-135	3	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 110331026001A	Sample number(s): 6186944-6186949 UNSPK: 6186944 BKG: 6186944								
Copper	103	107	75-125	3	20	5.46	5.65	3	20
Batch number: 11028102201A	Sample number(s): 6186943,6186946-6186947 UNSPK: P185954 BKG: P185954								
21a Cyanide by 9012B	100		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11032032201A	Sample number(s): 6186937-6186946 UNSPK: 6186937 BKG: 6186937								
11a Anions by 300.0 - Fluoride	75*		80-120			1.7	1.5	13 (1)	20
11a Anions by 300.0 - Nitrate	119		80-120			12.1	10.7	12	20
Batch number: 11032032201B	Sample number(s): 6186947-6186949 UNSPK: 6186947 BKG: 6186947								
11a Anions by 300.0 - Fluoride	106		80-120			2.8	2.9	5 (1)	20
11a Anions by 300.0 - Nitrate	110		80-120			1.3 J	1.5 J	10 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11032621201A	Sample number(s): 6186937-6186946					UNSPK: 6186937	BKG: 6186937		
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11032621201B	Sample number(s): 6186947-6186949					UNSPK: 6186947	BKG: 6186947		
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11033243201A	Sample number(s): 6186937-6186949					UNSPK: 6186942	BKG: 6186942		
3a Cr VI by EPA 7199	87		75-125			0.29 J	0.49 J	52* (1)	20
Batch number: 11021039402B	Sample number(s): 6186937-6186947					BKG: 6186937			
22a pH by 9045C						5.93	5.97	1	1
Batch number: 11021039404A	Sample number(s): 6186948-6186949					BKG: 6186948			
22a pH by 9045C						6.94	6.94	0	1
Batch number: 11021182102B	Sample number(s): 6186937-6186947					BKG: 6186937			
32a OR Potential						391	392	0	6
Batch number: 11021182104A	Sample number(s): 6186948-6186949					BKG: 6186948			
32a OR Potential						282	270	4	6
Batch number: 11027162401A	Sample number(s): 6186937-6186942,6186944-6186945,6186948-6186949					BKG: P189705			
28a Moisture Content by 160.3						13.5	14.1	4	20
Batch number: 11032162401A	Sample number(s): 6186943,6186946-6186947					BKG: 6186943			
28a Moisture Content by 160.3						2.6	2.7	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6186937	109	100	94	85
6186939	112	104	93	84
6186941	114	109	93	84
6186943	114	107	92	84
6186944	116	111	91	83
6186946	116	111	90	84
6186947	116	109	93	82
6186948	116	106	94	82
Blank	112	109	92	85
LCS	101	103	98	101
MS	106	104	100	102
MSD	104	106	100	101
Limits:	80-120	80-120	81-117	74-121

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Surrogate Quality Control

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110211AA

	Toluene-d8
6186950	101
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110212AA

	Toluene-d8
6186937	99
6186939	99
6186941	97
6186943	99
6186944	99
6186946	98
6186947	101
6186948	98
Blank	101
LCS	100
LCSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6186950	106	101	97	101
Blank	104	102	99	101
LCS	106	104	98	103
LCSD	106	100	96	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C
Batch number: 11020SLE026

	N-Nitrosodimethylamine-d6
6186943	82
6186946	88
6186947	101
Blank	81
LCS	89
MS	98
MSD	88
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Surrogate Quality Control

Batch number: 11022SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6186937	87	81	79
6186938	90	84	85
6186939	91	84	84
6186940	88	87	78
6186941	92	85	87
6186942	92	75	82
6186943	89	82	92
6186944	90	81	86
6186945	97	86	86
6186946	92	86	86
6186947	91	80	85
6186948	94	87	86
6186949	81	72	70
Blank	102	96	108
LCS	107	83	85
MS	105	83	84
MSD	104	89	86
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11024SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6186937	87	85	102	84	92	112
6186938	79	78	96	79	87	86
6186939	167*	164*	232*	157*	180*	194*
6186940	83	82	96	79	90	89
6186941	90	89	105	83	92	99
6186942	78	79	97	77	89	94
6186943	86	82	101	79	91	96
6186944	81	81	94	80	86	97
6186945	89	86	106	84	93	95
6186946	79	79	95	77	84	85
6186947	89	87	103	83	94	103
6186948	86	85	99	79	90	104
6186949	86	84	97	79	89	93
Blank	67	67	82	60	67	91
LCS	83	82	102	82	82	91
MS	85	82	95	78	83	101
MSD	88	86	112	87	94	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11019A34B

	Trifluorotoluene-F
6186943	89
6186946	80
6186947	84
Blank	86
LCS	84
LCSD	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Surrogate Quality Control

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11024B20A

	Trifluorotoluene-F
6186950	80
Blank	78
LCS	126
LCSD	122

Limits: 63-135

Analysis Name: 20a Energetics by 8330A
Batch number: 110220004A

	2-Nitro-m-xylene
6186943	118
6186946	112
6186947	110
Blank	124
LCS	119
LCSD	132
MS	108
MSD	109

Limits: 80-146

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110240009A

	Butyraldehyde
6186943	89
6186946	96
6186947	93
Blank	92
LCS	98
MS	100
MSD	99

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110240031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6186937	94	112
6186938	99	132*
6186939	98	129*
6186940	97	137*
6186941	90	123*
6186942	99	111
6186943	99	141*
6186944	85	124*
6186945	98	114
6186946	91	124*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Surrogate Quality Control

6186947	98	137*
6186948	92	128*
6186949	90	137*
Blank	89	118
LCS	89	122*
LCSD	86	106
MS	101	121*
MSD	104	114
Limits:	53-139	45-120

Analysis Name: 27a Glycols by 8015B
Batch number: 110240003A

	Tetramethylene glycol
6186943	31
6186946	88
6186947	91
Blank	101
LCS	105
MS	90
MSD	98
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110250009A

	Chlorobenzene	Orthoterphenyl
6186943	78	89
6186946	79	88
Blank	86	93
LCS	84	94
MS	82	93
MSD	78	89
Limits:	37-125	47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110250010A

	n-Triacontane-d62
6186943	104
6186946	106
6186947	102
Blank	108
LCS	107
MS	106
MSD	106
Limits:	50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110250022A

	Acetone
6186947	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229767
Reported: 02/15/11 at 10:52 AM

Surrogate Quality Control

Blank	97
LCS	101
MS	83
MSD	89
Limits:	42-138

Analysis Name: 25a Alcohols by 8015B
Batch number: 110250023A

	Acetone
6186943	96
6186946	82
Blank	98
LCS	104
MS	84
MSD	85
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110310015A

	Chlorobenzene	Orthoterphenyl
6186947	82	105
Blank	91	107
LCS	93	114
MS	98	117
MSD	94	115
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1229767 61806937-50

CHAIN OF CUSTODY RECORD

CDM	BSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-025-SA5B-SB-4.0-5.0	01.19.11	0950	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-025-SA5B-SB-4.5	01.19.11	0946	SOIL	NONE	4 ENCORES											X	X												
SL-025-SA5B-SB-9.0-10.0	01.19.11	0955	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-048-SA5B-SB-4.0-5.0	01.19.11	1039	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-048-SA5B-SB-4.5	01.19.11	1035	SOIL	NONE	4 ENCORES											X	X												
SL-048-SA5B-SB-9.0-10.0	01.19.11	1044	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-024-SA5B-SB-4.0-5.0	01.19.11	1125	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-024-SA5B-SB-4.5	01.19.11	1120	SOIL	NONE	4 ENCORES											X	X												
SL-024-SA5B-SB-9.0-10.0	01.19.11	1130	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-023-SA5B-SB-2.0-3.0	01.19.11	1410	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	Sample ID was updated per AMC. NIA 1/25/11
SL-023-SA5B-SB-2.5	01.19.11	1405	SOIL	NONE	5 ENCORES											X	X	X											
SL-287-SA5B-SB-4.0-5.0	01.19.11	1349	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X																
SL-287-SA5B-SB-4.5	01.19.11	1345	SOIL	NONE	4 ENCORES											X	X												
SL-287-SA5B-SB-9.0-10.0	01.19.11	1353	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-049-SA5B-SB-4.0-5.0	01.19.11	1604	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-049-SA5B-SB-4.5	01.19.11	1600	SOIL	NONE	5 ENCORES											X	X	X											
SL-049-SA5B-SB-9.0-10.0	01.19.11	1544	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-049-SA5B-SB-9.5	01.19.11	1539	SOIL	NONE	5 ENCORES											X	X	X											
SL-031-SA5B-SB-4.0-5.0	01.19.11	1550	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-031-SA5B-SB-4.5	01.19.11	1545	SOIL	NONE	4 ENCORES											X	X												
SL-031-SA5B-SB-9.0-10.0	01.19.11	1605	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
TB-011911	01.19.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

SL-022

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/19/2011, 17:00		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	1/20/11 0900	8709 5935 3984, ... 3929	No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/20/2011
Group Number: 1229768
SDG: DX040
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-025-SA5B-SB-4.0-5.0 Soil	6186951
SL-025-SA5B-SB-9.0-10.0 Soil	6186952
SL-048-SA5B-SB-4.0-5.0 Soil	6186953
SL-048-SA5B-SB-9.0-10.0 Soil	6186954
SL-024-SA5B-SB-4.0-5.0 Soil	6186955
SL-024-SA5B-SB-9.0-10.0 Soil	6186956
SL-022-SA5B-SB-2.0-3.0 Soil	6186957
SL-287-SA5B-SB-4.0-5.0 Soil	6186958
SL-287-SA5B-SB-9.0-10.0 Soil	6186959

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186951
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0254 SDG#: DX040-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186951
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0254 SDG#: DX040-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0249 JQ	0.0228	1.09	1
11031	12378-PeCDD	40321-76-4	0.0856 JBQ	0.0263	5.46	1
11031	123478-HxCDD	39227-28-6	0.0295 JBQ	0.0214	5.46	1
11031	123678-HxCDD	57653-85-7	0.410 JB	0.0228	5.46	1
11031	123789-HxCDD	19408-74-3	0.623 JB	0.0214	5.46	1
11031	1234678-HpCDD	35822-46-9	1.23 JB	0.0287	5.46	1
11031	OCDD	3268-87-9	16.8 B	0.0352	10.9	1
11031	2378-TCDF	51207-31-9	0.0242 JQ	0.0216	1.09	1
11031	12378-PeCDF	57117-41-6	0.0968 JBQ	0.00873	5.46	1
11031	23478-PeCDF	57117-31-4	0.124 JBQ	0.0102	5.46	1
11031	123478-HxCDF	70648-26-9	0.101 JBQ	0.0181	5.46	1
11031	123678-HxCDF	57117-44-9	0.116 JB	0.0146	5.46	1
11031	123789-HxCDF	72918-21-9	0.344 JBQ	0.0219	5.46	1
11031	234678-HxCDF	60851-34-5	0.163 JB	0.0171	5.46	1
11031	1234678-HpCDF	67562-39-4	0.476 JB	0.0105	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0848 JBQ	0.0211	5.46	1
11031	OCDF	39001-02-0	0.699 JB	0.0297	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186951
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0254 SDG#: DX040-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-4.0-5.0

LLI Sample # SW 6186951
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0254 SDG#: DX040-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 20:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-025-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186952
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0259 SDG#: DX040-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-025-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186952
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0259 SDG#: DX040-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0286	U	0.0286	1.11	1
11031	12378-PeCDD	40321-76-4	0.0294	U	0.0294	5.56	1
11031	123478-HxCDD	39227-28-6	0.0227	U	0.0227	5.56	1
11031	123678-HxCDD	57653-85-7	0.122	JBQ	0.0237	5.56	1
11031	123789-HxCDD	19408-74-3	0.188	JB	0.0234	5.56	1
11031	1234678-HpCDD	35822-46-9	2.28	JB	0.0374	5.56	1
11031	OCDD	3268-87-9	20.5	B	0.0353	11.1	1
11031	2378-TCDF	51207-31-9	0.0217	U	0.0217	1.11	1
11031	12378-PeCDF	57117-41-6	0.0748	JB	0.00900	5.56	1
11031	23478-PeCDF	57117-31-4	0.0813	JBQ	0.0103	5.56	1
11031	123478-HxCDF	70648-26-9	0.0646	JB	0.0179	5.56	1
11031	123678-HxCDF	57117-44-9	0.0726	JBQ	0.0142	5.56	1
11031	123789-HxCDF	72918-21-9	0.252	JBQ	0.0212	5.56	1
11031	234678-HxCDF	60851-34-5	0.109	JBQ	0.0167	5.56	1
11031	1234678-HpCDF	67562-39-4	0.461	JB	0.0161	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0581	JBQ	0.0293	5.56	1
11031	OCDF	39001-02-0	0.661	JB	0.0386	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-025-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186952
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0259 SDG#: DX040-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-025-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5B-SB-9.0-10.0

LLI Sample # SW 6186952
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 09:55 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0259 SDG#: DX040-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 20:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186953
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0484 SDG#: DX040-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186953
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0484 SDG#: DX040-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0223 U	0.0223	1.12	1
11031	12378-PeCDD	40321-76-4	0.0278 JBQ	0.0243	5.62	1
11031	123478-HxCDD	39227-28-6	0.0273 JB	0.0211	5.62	1
11031	123678-HxCDD	57653-85-7	0.119 JB	0.0219	5.62	1
11031	123789-HxCDD	19408-74-3	0.0214 U	0.0214	5.62	1
11031	1234678-HpCDD	35822-46-9	6.29 B	0.0577	5.62	1
11031	OCDD	3268-87-9	124 B	0.0395	11.2	1
11031	2378-TCDF	51207-31-9	0.0313 JQ	0.0184	1.12	1
11031	12378-PeCDF	57117-41-6	0.0180 JB	0.00675	5.62	1
11031	23478-PeCDF	57117-31-4	0.0918 JBQ	0.00742	5.62	1
11031	123478-HxCDF	70648-26-9	0.0672 JB	0.0188	5.62	1
11031	123678-HxCDF	57117-44-9	0.0676 JB	0.0141	5.62	1
11031	123789-HxCDF	72918-21-9	0.0457 JB	0.0228	5.62	1
11031	234678-HxCDF	60851-34-5	0.113 JBQ	0.0165	5.62	1
11031	1234678-HpCDF	67562-39-4	0.498 JB	0.0124	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0990 JBQ	0.0260	5.62	1
11031	OCDF	39001-02-0	0.742 JB	0.0396	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186953
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0484 SDG#: DX040-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-4.0-5.0

LLI Sample # SW 6186953
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:39 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0484 SDG#: DX040-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 21:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186954
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0489 SDG#: DX040-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186954
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0489 SDG#: DX040-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0207	U	0.0207	1.08	1
11031	12378-PeCDD	40321-76-4	0.0343	JBQ	0.0218	5.39	1
11031	123478-HxCDD	39227-28-6	0.0177	U	0.0177	5.39	1
11031	123678-HxCDD	57653-85-7	0.137	JBQ	0.0182	5.39	1
11031	123789-HxCDD	19408-74-3	0.223	JB	0.0177	5.39	1
11031	1234678-HpCDD	35822-46-9	0.400	JBQ	0.0264	5.39	1
11031	OCDD	3268-87-9	2.23	JB	0.0257	10.8	1
11031	2378-TCDF	51207-31-9	0.0446	J	0.0213	1.08	1
11031	12378-PeCDF	57117-41-6	0.0676	JBQ	0.00906	5.39	1
11031	23478-PeCDF	57117-31-4	0.105	JBQ	0.00895	5.39	1
11031	123478-HxCDF	70648-26-9	0.0825	JBQ	0.0193	5.39	1
11031	123678-HxCDF	57117-44-9	0.0747	JB	0.0155	5.39	1
11031	123789-HxCDF	72918-21-9	0.276	JB	0.0178	5.39	1
11031	234678-HxCDF	60851-34-5	0.174	JBQ	0.0149	5.39	1
11031	1234678-HpCDF	67562-39-4	0.336	JB	0.0102	5.39	1
11031	1234789-HpCDF	55673-89-7	0.0453	JBQ	0.0141	5.39	1
11031	OCDF	39001-02-0	0.447	JB	0.0245	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186954
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0489 SDG#: DX040-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5B-SB-9.0-10.0

LLI Sample # SW 6186954
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 10:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0489 SDG#: DX040-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 22:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186955
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0244 SDG#: DX040-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186955
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0244 SDG#: DX040-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0232	U	0.0232	1.14	1
11031	12378-PeCDD	40321-76-4	0.0251	U	0.0251	5.69	1
11031	123478-HxCDD	39227-28-6	0.0146	U	0.0146	5.69	1
11031	123678-HxCDD	57653-85-7	0.0282	JBQ	0.0151	5.69	1
11031	123789-HxCDD	19408-74-3	0.0280	JBQ	0.0144	5.69	1
11031	1234678-HpCDD	35822-46-9	0.258	JB	0.0284	5.69	1
11031	OCDD	3268-87-9	0.808	JB	0.0276	11.4	1
11031	2378-TCDF	51207-31-9	0.0292	JQ	0.0205	1.14	1
11031	12378-PeCDF	57117-41-6	0.00785	U	0.00785	5.69	1
11031	23478-PeCDF	57117-31-4	0.0646	JB	0.00808	5.69	1
11031	123478-HxCDF	70648-26-9	0.0602	JB	0.0160	5.69	1
11031	123678-HxCDF	57117-44-9	0.0391	JB	0.0118	5.69	1
11031	123789-HxCDF	72918-21-9	0.0442	JBQ	0.0148	5.69	1
11031	234678-HxCDF	60851-34-5	0.0963	JB	0.0117	5.69	1
11031	1234678-HpCDF	67562-39-4	0.321	JB	0.0118	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0423	JBQ	0.0190	5.69	1
11031	OCDF	39001-02-0	0.286	JB	0.0320	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186955
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0244 SDG#: DX040-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-024-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-4.0-5.0

LLI Sample # SW 6186955
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:25 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0244 SDG#: DX040-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/03/2011 23:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186956
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0249 SDG#: DX040-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186956
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0249 SDG#: DX040-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0281	U	0.0281	1.10	1
11031	12378-PeCDD	40321-76-4	0.0306	U	0.0306	5.51	1
11031	123478-HxCDD	39227-28-6	0.0236	U	0.0236	5.51	1
11031	123678-HxCDD	57653-85-7	0.195	JBQ	0.0243	5.51	1
11031	123789-HxCDD	19408-74-3	0.317	JB	0.0243	5.51	1
11031	1234678-HpCDD	35822-46-9	0.570	JB	0.0318	5.51	1
11031	OCDD	3268-87-9	4.70	JB	0.0248	11.0	1
11031	2378-TCDF	51207-31-9	0.0302	U	0.0302	1.10	1
11031	12378-PeCDF	57117-41-6	0.123	JBQ	0.00969	5.51	1
11031	23478-PeCDF	57117-31-4	0.0882	JB	0.0105	5.51	1
11031	123478-HxCDF	70648-26-9	0.0854	JBQ	0.0204	5.51	1
11031	123678-HxCDF	57117-44-9	0.0860	JB	0.0151	5.51	1
11031	123789-HxCDF	72918-21-9	0.239	JBQ	0.0202	5.51	1
11031	234678-HxCDF	60851-34-5	0.110	JBQ	0.0169	5.51	1
11031	1234678-HpCDF	67562-39-4	0.363	JB	0.0105	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0471	JBQ	0.0180	5.51	1
11031	OCDF	39001-02-0	0.414	JB	0.0334	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186956
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0249 SDG#: DX040-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5B-SB-9.0-10.0

LLI Sample # SW 6186956
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 11:30 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0249 SDG#: DX040-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/04/2011 00:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186957
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0232 SDG#: DX040-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	2.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186957
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0232 SDG#: DX040-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0178 U	0.0178	1.03	1
11031	12378-PeCDD	40321-76-4	0.0417 JB	0.0215	5.13	1
11031	123478-HxCDD	39227-28-6	0.0188 U	0.0188	5.13	1
11031	123678-HxCDD	57653-85-7	0.0809 JBQ	0.0190	5.13	1
11031	123789-HxCDD	19408-74-3	0.0974 JBQ	0.0185	5.13	1
11031	1234678-HpCDD	35822-46-9	1.08 JB	0.0252	5.13	1
11031	OCDD	3268-87-9	12.7 B	0.0244	10.3	1
11031	2378-TCDF	51207-31-9	0.0313 JQ	0.0180	1.03	1
11031	12378-PeCDF	57117-41-6	0.0849 JBQ	0.00708	5.13	1
11031	23478-PeCDF	57117-31-4	0.192 JB	0.00780	5.13	1
11031	123478-HxCDF	70648-26-9	0.126 JB	0.0172	5.13	1
11031	123678-HxCDF	57117-44-9	0.0994 JB	0.0122	5.13	1
11031	123789-HxCDF	72918-21-9	0.0982 JBQ	0.0164	5.13	1
11031	234678-HxCDF	60851-34-5	0.141 JB	0.0130	5.13	1
11031	1234678-HpCDF	67562-39-4	0.555 JB	0.0102	5.13	1
11031	1234789-HpCDF	55673-89-7	0.0568 JB	0.0162	5.13	1
11031	OCDF	39001-02-0	0.721 JBQ	0.0273	10.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186957
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0232 SDG#: DX040-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5B-SB-2.0-3.0

LLI Sample # SW 6186957
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 14:10 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0232 SDG#: DX040-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/04/2011 01:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-287-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186958
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2874 SDG#: DX040-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-287-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186958
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2874 SDG#: DX040-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0197	U	0.0197	1.12	1
11031	12378-PeCDD	40321-76-4	0.0265	JBQ	0.0196	5.60	1
11031	123478-HxCDD	39227-28-6	0.0329	JBQ	0.0215	5.60	1
11031	123678-HxCDD	57653-85-7	0.127	JB	0.0224	5.60	1
11031	123789-HxCDD	19408-74-3	0.0796	JB	0.0211	5.60	1
11031	1234678-HpCDD	35822-46-9	6.91	B	0.0550	5.60	1
11031	OCDD	3268-87-9	134	B	0.0477	11.2	1
11031	2378-TCDF	51207-31-9	0.0175	JQ	0.0147	1.12	1
11031	12378-PeCDF	57117-41-6	0.0405	JBQ	0.00683	5.60	1
11031	23478-PeCDF	57117-31-4	0.0882	JB	0.00739	5.60	1
11031	123478-HxCDF	70648-26-9	0.0914	JB	0.0185	5.60	1
11031	123678-HxCDF	57117-44-9	0.0702	JBQ	0.0141	5.60	1
11031	123789-HxCDF	72918-21-9	0.0933	JB	0.0219	5.60	1
11031	234678-HxCDF	60851-34-5	0.136	JB	0.0166	5.60	1
11031	1234678-HpCDF	67562-39-4	0.570	JB	0.0132	5.60	1
11031	1234789-HpCDF	55673-89-7	0.123	JB	0.0273	5.60	1
11031	OCDF	39001-02-0	0.935	JB	0.0307	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-287-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186958
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

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Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2874 SDG#: DX040-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-287-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-4.0-5.0

LLI Sample # SW 6186958
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:49 by CP

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Reported: 02/27/2011 15:35

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2874 SDG#: DX040-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/04/2011 02:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-287-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186959
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:53 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2879 SDG#: DX040-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-287-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186959
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:53 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2879 SDG#: DX040-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0154	U	0.0154	1.04	1
11031	12378-PeCDD	40321-76-4	0.0916	JBQ	0.0181	5.22	1
11031	123478-HxCDD	39227-28-6	0.100	JB	0.0166	5.22	1
11031	123678-HxCDD	57653-85-7	0.174	JB	0.0168	5.22	1
11031	123789-HxCDD	19408-74-3	0.223	JB	0.0166	5.22	1
11031	1234678-HpCDD	35822-46-9	0.416	JB	0.0162	5.22	1
11031	OCDD	3268-87-9	1.70	JB	0.0166	10.4	1
11031	2378-TCDF	51207-31-9	0.0341	JQ	0.0164	1.04	1
11031	12378-PeCDF	57117-41-6	0.120	JB	0.00678	5.22	1
11031	23478-PeCDF	57117-31-4	0.181	JB	0.00720	5.22	1
11031	123478-HxCDF	70648-26-9	0.145	JBQ	0.0163	5.22	1
11031	123678-HxCDF	57117-44-9	0.164	JB	0.0129	5.22	1
11031	123789-HxCDF	72918-21-9	0.244	JB	0.0168	5.22	1
11031	234678-HxCDF	60851-34-5	0.200	JB	0.0136	5.22	1
11031	1234678-HpCDF	67562-39-4	0.424	JB	0.0104	5.22	1
11031	1234789-HpCDF	55673-89-7	0.174	JBQ	0.0174	5.22	1
11031	OCDF	39001-02-0	0.529	JBQ	0.0203	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-287-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186959
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 13:53 by CP

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2879 SDG#: DX040-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-287-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-287-SA5B-SB-9.0-10.0

LLI Sample # SW 6186959
LLI Group # 1229768
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2879 SDG#: DX040-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11029001	02/05/2011 09:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11029001	01/29/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229768
Reported: 02/27/11 at 03:35 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11027162401A	Sample number(s): 6186951-6186956,6186958-6186959								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11032162401A	Sample number(s): 6186957								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11029001	Sample number(s): 6186951-6186959								
2378-TCDD	0.0207 U	0.0207	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0229 J	0.0214	5.00	ng/kg	91		70-142		
123478-HxCDD	0.0261 J	0.0121	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0265 J	0.0126	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0126 J	0.0120	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.247 J	0.0234	5.00	ng/kg	92		70-140		
OCDD	0.591 J	0.0240	10.0	ng/kg	94		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	110		75-158		
12378-PeCDF	0.0260 J	0.00830	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0889 J	0.00990	5.00	ng/kg	93		68-160		
123478-HxCDF	0.105 J	0.0234	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0849 J	0.0155	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0730 J	0.0283	5.00	ng/kg	93		78-130		
234678-HxCDF	0.201 J	0.0186	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.455 J	0.0102	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0955 J	0.0221	5.00	ng/kg	96		78-138		
OCDF	0.549 J	0.0402	10.0	ng/kg	95		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11027162401A	Sample number(s): 6186951-6186956,6186958-6186959					BKG: P189705			
28a Moisture Content by 160.3						13.5	14.1	4	20
Batch number: 11032162401A	Sample number(s): 6186957					BKG: P186943			
28a Moisture Content by 160.3						2.6	2.7	5	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229768
Reported: 02/27/11 at 03:35 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11029001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6186951	71	78	73	89	76	65
6186952	68	77	74	88	77	65
6186953	68	74	64	83	70	57
6186954	73	81	64	79	77	72
6186955	66	74	59	78	74	66
6186956	68	74	60	78	73	65
6186957	78	86	65	89	88	74
6186958	74	81	70	87	76	62
6186959	69	75	60	74	67	61
Blank	75	67	62	87	70	52
OPR	76	68	64	84	72	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6186951	112	66	64	88	79	79
6186952	104	66	68	84	78	78
6186953	101	56	58	87	78	73
6186954	87	72	74	85	79	74
6186955	93	69	73	82	74	74
6186956	93	66	70	84	75	74
6186957	104	77	75	96	86	86
6186958	106	63	62	92	86	82
6186959	84	59	55	86	81	75
Blank	112	59	65	95	80	83
OPR	109	59	62	89	78	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6186951	78	77	83	87	72	94
6186952	77	77	82	85	74	92
6186953	75	75	77	85	70	91
6186954	76	75	79	85	74	87
6186955	76	75	81	88	66	84
6186956	75	74	80	86	70	86
6186957	88	88	93	98	83	103
6186958	82	81	85	88	75	96
6186959	76	77	79	71	67	85
Blank	84	84	91	104	65	86
OPR	82	82	86	93	65	85
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229768
Reported: 02/27/11 at 03:35 PM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1229768 6186951-59

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-023-SA5B-SB-4.0-5.0	01.19.11	0950	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-023-SA5B-SB-4.5	01.19.11	0946	SOIL	NONE	4 ENCORES											X	X											
SL-023-SA5B-SB-9.0-10.0	01.19.11	0956	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-048-SA5B-SB-4.0-5.0	01.19.11	1039	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-048-SA5B-SB-4.5	01.19.11	1035	SOIL	NONE	4 ENCORES											X	X											
SL-048-SA5B-SB-9.0-10.0	01.19.11	1044	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-024-SA5B-SB-4.0-5.0	01.19.11	1129	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-024-SA5B-SB-4.5	01.19.11	1120	SOIL	NONE	4 ENCORES											X	X											
SL-024-SA5B-SB-9.0-10.0	01.19.11	1139	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-023-SA5B-SB-2.0-3.0	01.19.11	1410	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-023-SA5B-SB-2.5	01.19.11	1405	SOIL	NONE	5 ENCORES											X	X	X										
SL-257-SA5B-SB-4.0-5.0	01.19.11	1349	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X															
SL-257-SA5B-SB-4.5	01.19.11	1346	SOIL	NONE	4 ENCORES											X	X											
SL-257-SA5B-SB-9.0-10.0	01.19.11	1353	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-049-SA5B-SB-4.0-5.0	01.19.11	1604	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-049-SA5B-SB-4.5	01.19.11	1600	SOIL	NONE	5 ENCORES											X	X	X										
SL-049-SA5B-SB-9.0-10.0	01.19.11	1544	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-049-SA5B-SB-9.5	01.19.11	1539	SOIL	NONE	5 ENCORES											X	X	X										
SL-031-SA5B-SB-4.0-5.0	01.19.11	1550	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-031-SA5B-SB-4.5	01.19.11	1545	SOIL	NONE	4 ENCORES											X	X											
SL-031-SA5B-SB-9.0-10.0	01.19.11	1606	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
TB-011911	01.19.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										

SL-022 SL-022 Sample ID was updated per AMC. NLM 1/25/11

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/19/2011, 17:00		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.[s]	
	1/20/11 0900	8700 5935 3854, ... 3929	No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/20/2011
Group Number: 1229769
SDG: DX041
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-049-SA5B-SB-4.0-5.0 Soil	6186960
SL-049-SA5B-SB-9.0-10.0 Soil	6186961
SL-031-SA5B-SB-4.0-5.0 Soil	6186962
SL-031-SA5B-SB-9.0-10.0 Soil	6186963

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186960
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0494 SDG#: DX041-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186960
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0494 SDG#: DX041-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0266 JBQ	0.0150	1.09	1
11031	12378-PeCDD	40321-76-4	0.0420 JBQ	0.0193	5.45	1
11031	123478-HxCDD	39227-28-6	0.0278 JBQ	0.0181	5.45	1
11031	123678-HxCDD	57653-85-7	0.168 JB	0.0187	5.45	1
11031	123789-HxCDD	19408-74-3	0.132 JBQ	0.0183	5.45	1
11031	1234678-HpCDD	35822-46-9	3.95 JB	0.0279	5.45	1
11031	OCDD	3268-87-9	58.9 B	0.0271	10.9	1
11031	2378-TCDF	51207-31-9	0.0187 U	0.0187	1.09	1
11031	12378-PeCDF	57117-41-6	0.0588 JB	0.00926	5.45	1
11031	23478-PeCDF	57117-31-4	0.109 JB	0.00959	5.45	1
11031	123478-HxCDF	70648-26-9	0.183 JB	0.0200	5.45	1
11031	123678-HxCDF	57117-44-9	0.0652 JBQ	0.0153	5.45	1
11031	123789-HxCDF	72918-21-9	0.114 JBQ	0.0168	5.45	1
11031	234678-HxCDF	60851-34-5	0.0660 JB	0.0144	5.45	1
11031	1234678-HpCDF	67562-39-4	0.495 JB	0.0138	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0857 JB	0.0192	5.45	1
11031	OCDF	39001-02-0	1.08 JB	0.0209	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186960
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0494 SDG#: DX041-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-4.0-5.0

LLI Sample # SW 6186960
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:04 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0494 SDG#: DX041-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/06/2011 01:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186961
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0499 SDG#: DX041-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186961
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0499 SDG#: DX041-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0151 U	0.0151	1.04	1
11031	12378-PeCDD	40321-76-4	0.0289 JBQ	0.0160	5.18	1
11031	123478-HxCDD	39227-28-6	0.0340 JBQ	0.0145	5.18	1
11031	123678-HxCDD	57653-85-7	0.0896 JB	0.0146	5.18	1
11031	123789-HxCDD	19408-74-3	0.0780 JBQ	0.0144	5.18	1
11031	1234678-HpCDD	35822-46-9	2.36 JB	0.0272	5.18	1
11031	OCDD	3268-87-9	39.6 B	0.0237	10.4	1
11031	2378-TCDF	51207-31-9	0.0139 U	0.0139	1.04	1
11031	12378-PeCDF	57117-41-6	0.0639 JBQ	0.00839	5.18	1
11031	23478-PeCDF	57117-31-4	0.0637 JBQ	0.00839	5.18	1
11031	123478-HxCDF	70648-26-9	0.149 JB	0.0143	5.18	1
11031	123678-HxCDF	57117-44-9	0.0461 JBQ	0.0124	5.18	1
11031	123789-HxCDF	72918-21-9	0.0628 JB	0.0143	5.18	1
11031	234678-HxCDF	60851-34-5	0.0471 JB	0.0126	5.18	1
11031	1234678-HpCDF	67562-39-4	0.284 JB	0.0100	5.18	1
11031	1234789-HpCDF	55673-89-7	0.0591 JB	0.0157	5.18	1
11031	OCDF	39001-02-0	0.605 JBQ	0.0188	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	92	25 - 164
13C12-12378-PeCDD	102	25 - 181
13C12-123478-HxCDD	97	32 - 141
13C12-123678-HxCDD	100	28 - 130
13C12-123789-HxCDD	101	28 - 130
13C12-1234678-HpCDD	103	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	108	24 - 185
13C12-23478-PeCDF	100	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	107	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186961
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0499 SDG#: DX041-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SB-9.0-10.0

LLI Sample # SW 6186961
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:44 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0499 SDG#: DX041-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/06/2011 02:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401A	02/01/2011 11:26	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186962
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX041-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-031-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186962
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX041-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0142 U	0.0142	1.15	1
11031	12378-PeCDD	40321-76-4	0.0905 JB	0.0229	5.77	1
11031	123478-HxCDD	39227-28-6	0.0213 JBQ	0.0135	5.77	1
11031	123678-HxCDD	57653-85-7	0.379 JB	0.0137	5.77	1
11031	123789-HxCDD	19408-74-3	0.548 JBQ	0.0142	5.77	1
11031	1234678-HpCDD	35822-46-9	0.661 JBQ	0.0194	5.77	1
11031	OCDD	3268-87-9	5.90 JB	0.0167	11.5	1
11031	2378-TCDF	51207-31-9	0.0243 JBQ	0.0128	1.15	1
11031	12378-PeCDF	57117-41-6	0.0981 JB	0.00704	5.77	1
11031	23478-PeCDF	57117-31-4	0.0942 JBQ	0.00751	5.77	1
11031	123478-HxCDF	70648-26-9	0.0589 JB	0.0137	5.77	1
11031	123678-HxCDF	57117-44-9	0.0947 JB	0.0114	5.77	1
11031	123789-HxCDF	72918-21-9	0.324 JB	0.0158	5.77	1
11031	234678-HxCDF	60851-34-5	0.0848 JBQ	0.0133	5.77	1
11031	1234678-HpCDF	67562-39-4	0.200 JB	0.00693	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0381 JB	0.0137	5.77	1
11031	OCDF	39001-02-0	0.321 JB	0.0258	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-031-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

LLI Sample # SW 6186962
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 15:50 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX041-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-4.0-5.0

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX041-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/06/2011 03:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-031-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

LLI Sample # SW 6186963
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:05 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX041-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

LLI Sample # SW 6186963
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:05 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX041-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0185 JBQ	0.0155	1.08	1
11031	12378-PeCDD	40321-76-4	0.0518 JBQ	0.0186	5.38	1
11031	123478-HxCDD	39227-28-6	0.0273 JBQ	0.0128	5.38	1
11031	123678-HxCDD	57653-85-7	0.153 JBQ	0.0131	5.38	1
11031	123789-HxCDD	19408-74-3	0.158 JBQ	0.0122	5.38	1
11031	1234678-HpCDD	35822-46-9	0.349 JB	0.0167	5.38	1
11031	OCDD	3268-87-9	1.85 JB	0.0182	10.8	1
11031	2378-TCDF	51207-31-9	0.0316 JBQ	0.0137	1.08	1
11031	12378-PeCDF	57117-41-6	0.0584 JB	0.00581	5.38	1
11031	23478-PeCDF	57117-31-4	0.125 JB	0.00614	5.38	1
11031	123478-HxCDF	70648-26-9	0.0470 JBQ	0.0122	5.38	1
11031	123678-HxCDF	57117-44-9	0.0608 JBQ	0.0108	5.38	1
11031	123789-HxCDF	72918-21-9	0.0601 JBQ	0.0131	5.38	1
11031	234678-HxCDF	60851-34-5	0.0759 JB	0.0116	5.38	1
11031	1234678-HpCDF	67562-39-4	0.177 JB	0.0102	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0540 JBQ	0.0160	5.38	1
11031	OCDF	39001-02-0	0.169 JB	0.0182	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

LLI Sample # SW 6186963
LLI Group # 1229769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/19/2011 16:05 by CP

Submitted: 01/20/2011 09:10
Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX041-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

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SSFL Area IV Collocated Soil Sampling
SL-031-SA5B-SB-9.0-10.0

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Reported: 02/27/2011 15:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX041-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11031001	02/06/2011 04:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11031001	01/31/2011 12:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229769
Reported: 02/27/11 at 03:52 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11027162401A	Sample number(s): 6186962-6186963								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11032162401A	Sample number(s): 6186960-6186961								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11031001	Sample number(s): 6186960-6186963								
2378-TCDD	0.0357 J	0.0172	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0673 J	0.0188	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0492 J	0.0152	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0659 J	0.0162	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0805 J	0.0152	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.306 J	0.0177	5.00	ng/kg	88		70-140		
OCDD	0.730 J	0.0153	10.0	ng/kg	91		78-144		
2378-TCDF	0.0319 J	0.0123	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0841 J	0.00610	5.00	ng/kg	91		80-134		
23478-PeCDF	0.127 J	0.00600	5.00	ng/kg	89		68-160		
123478-HxCDF	0.104 J	0.0145	5.00	ng/kg	88		72-134		
123678-HxCDF	0.0991 J	0.0123	5.00	ng/kg	87		84-130		
123789-HxCDF	0.114 J	0.0147	5.00	ng/kg	86		78-130		
234678-HxCDF	0.119 J	0.0132	5.00	ng/kg	88		70-156		
1234678-HpCDF	0.289 J	0.0130	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.160 J	0.0187	5.00	ng/kg	87		78-138		
OCDF	0.418 J	0.0238	10.0	ng/kg	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11027162401A	Sample number(s): 6186962-6186963					BKG: P189705			
28a Moisture Content by 160.3						13.5	14.1	4	20
Batch number: 11032162401A	Sample number(s): 6186960-6186961					BKG: P186943			
28a Moisture Content by 160.3						2.6	2.7	5	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1229769
Reported: 02/27/11 at 03:52 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11031001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6186960	74	80	53	68	68	66
6186961	92	100	78	89	84	84
6186962	82	83	68	80	71	65
6186963	72	75	60	68	62	61
Blank	76	80	72	83	75	76
OPR	78	81	75	88	78	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6186960	74	63	58	87	83	81
6186961	103	79	73	107	102	97
6186962	101	58	51	99	89	87
6186963	80	57	51	86	79	77
Blank	90	73	69	96	84	83
OPR	99	72	70	89	87	85
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6186960	83	81	81	71	73	87
6186961	100	101	103	91	91	108
6186962	87	87	88	74	78	97
6186963	77	79	78	68	69	84
Blank	82	83	89	82	71	86
OPR	85	87	88	83	72	90
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1229769 6186960-63

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs EPA 8260B	1,4-Dioxane EPA 8260SIM	TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: *pH EPA 9045C	*TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-025-SA5B-SB-4.0-5.0	01.19.11	0950	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-025-SA5B-SB-4.5	01.19.11	0945	SOIL	NONE	4 ENCORES																							
SL-025-SA5B-SB-9.0-10.0	01.19.11	0955	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
SL-048-SA5B-SB-4.0-5.0	01.19.11	1039	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-048-SA5B-SB-4.5	01.19.11	1035	SOIL	NONE	4 ENCORES																							
SL-048-SA5B-SB-9.0-10.0	01.19.11	1044	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
SL-024-SA5B-SB-4.0-5.0	01.19.11	1126	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																
SL-024-SA5B-SB-4.5	01.19.11	1120	SOIL	NONE	4 ENCORES																							
SL-024-SA5B-SB-9.0-10.0	01.19.11	1130	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
SL-023-SA5B-SB-2.0-3.0	01.19.11	1410	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X																
SL-023-SA5B-SB-2.5	01.19.11	1405	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-287-SA5B-SB-4.0-5.0	01.19.11	1349	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X	X			X	X	X										
SL-287-SA5B-SB-4.5	01.19.11	1345	SOIL	NONE	4 ENCORES																							
SL-287-SA5B-SB-9.0-10.0	01.19.11	1353	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
SL-049-SA5B-SB-4.0-5.0	01.19.11	1604	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X																
SL-049-SA5B-SB-4.5	01.19.11	1600	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-049-SA5B-SB-9.0-10.0	01.19.11	1544	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-049-SA5B-SB-9.5	01.19.11	1539	SOIL	NONE	5 ENCORES														X	X	X	X	X	X	X	X	X	
SL-031-SA5B-SB-4.0-5.0	01.19.11	1556	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X	X										
SL-031-SA5B-SB-4.5	01.19.11	1545	SOIL	NONE	4 ENCORES																							
SL-031-SA5B-SB-9.0-10.0	01.19.11	1606	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X											
TB-011911	01.19.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										

Relinquished by: (Signature) | Date/Time: 1/19/2011, 17:00 | Received for Laboratory by: (Signature)

Received by: (Signature) | Date/Time: 1/20/11 0730 | Airbill No.(s): 8700 5938 3854, ... 3929

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/21/2011
Group Number: 1230076
SDG: DE065
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-014-SA5B-SB-4.0-5.0 Soil	6189212
SL-294-SA5B-SB-4.0-5.0 Soil	6189213
SL-294-SA5B-SB-4.0-5.0MS Soil	6189214
SL-294-SA5B-SB-4.0-5.0MSD Soil	6189215
SL-294-SA5B-SB-4.0-5.0DUP Soil	6189216
SL-294-SA5B-SB-9.0-10.0 Soil	6189217
DUP19-SA5B-QC-012011 Soil	6189218
EB23-SA5B-012011 Water	6189219
SL-030-SA5B-SB-4.0-5.0 Soil	6189220
SL-030-SA5B-SB-9.0-10.0 Soil	6189221
EB24-SA5B-012011 Water	6189222
SL-035-SA5B-SB-4.0-5.0 Soil	6189223
SL-035-SA5B-SB-7.0-8.0 Soil	6189224
SL-034-SA5B-SB-4.0-5.0 Soil	6189225
SL-034-SA5B-SB-9.0-10.0 Soil	6189226
SL-019-SA5B-SB-4.0-5.0 Soil	6189227
SL-036-SA5B-SB-4.0-5.0 Soil	6189228
SL-037-SA5B-SB-3.5-4.5 Soil	6189229
SL-029-SA5B-SB-4.0-5.0 Soil	6189230
SL-029-SA5B-SB-9.0-10.0 Soil	6189231
TB-012011 Water	6189232

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.9	U	7.9	9.5		1.05
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.05
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7		1.05
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.7		1.05
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.05
06192	Bromomethane	74-83-9	0.30	U	0.30	4.7		1.05
06192	2-Butanone	78-93-3	1.4	U	1.4	9.5		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.05
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.05
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.7		1.05
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.7		1.05
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.05
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7		1.05
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.7		1.05
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.7		1.05
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.83	U	0.83	4.7		1.05
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.7		1.05
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.05
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.7		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.05
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.05
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.05
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.7		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.05
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.05
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.7		1.05
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7		1.05
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.05
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9		1.05
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.7		1.05
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.5		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.05
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.5		1.05
06192	Methylene Chloride	75-09-2	1.0	J	0.29	4.7		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.05

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.05
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.7		1.05
06192	Toluene	108-88-3	0.1	U	0.1	4.7		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.7		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.7		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7		1.05
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.05
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.05
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.7		1.05
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7		1.05
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.05
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.1	U	6.1	18		26.88
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	60.7		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.45	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.3		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.5		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	9.9	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.8	20		1
10138	Chrysene	218-01-9	6.3		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.76	1.9		1
10138	Diethylphthalate	84-66-2	22		6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.8	20		1
10138	Fluoranthene	206-44-0	1.4	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.82	J	0.76	1.9		1
10138	Pyrene	129-00-0	1.8	J	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.08
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.43	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	9.1	U	9.1	27		20
10199	EFH (C15-C20)	n.a.	9.1	U	9.1	27		20
10199	EFH (C21-C30)	n.a.	50		9.1	27		20
10199	EFH (C30 - C40)	n.a.	120		9.1	27		20
10199	EFH (C8-C11)	n.a.	9.1	U	9.1	27		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-014-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.58	22.2		1
07914	Boron	7440-42-8	3.94	J	0.988	5.55		1
01650	Calcium	7440-70-2	6,400		6.81	22.2		1
01654	Iron	7439-89-6	19,700		5.23	22.2		1
01656	Lithium	7439-93-2	21.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,120		2.82	11.1		1
06958	Manganese	7439-96-5	269		0.0866	0.555		1
10145	Phosphorus	7723-14-0	407		0.622	11.1		1
01662	Potassium	7440-09-7	2,910		20.0	55.5		1
01667	Sodium	7440-23-5	256		41.4	111		1
07968	Strontium	7440-24-6	22.6		0.0688	0.555		1
06969	Tin	7440-31-5	2.64	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,130		0.422	1.11		1
10146	Zirconium	7440-67-7	2.39	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0653	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.36		0.0871	0.436		2
06126	Barium	7440-39-3	72.9		0.118	0.436		2
06127	Beryllium	7440-41-7	0.422		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.106	J	0.0436	0.109		2
06131	Chromium	7440-47-3	14.5		0.131	0.436		2
06132	Cobalt	7440-48-4	4.73		0.0218	0.109		2
06133	Copper	7440-50-8	7.65		0.0719	0.436		2
06135	Lead	7439-92-1	5.14		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.506		0.0544	0.109		2
06139	Nickel	7440-02-0	8.72		0.109	0.436		2
06141	Selenium	7782-49-2	0.122	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0300	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.231		0.0327	0.109		2
06148	Vanadium	7440-62-2	28.5		0.0240	0.109		2
06149	Zinc	7440-66-6	61.4		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.1		1

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Sample Description: SL-014-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	336		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-014-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011	14:37	Chelsea B Eastep	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011	12:17	Jason M Long	26.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011	18:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011	18:07	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011	13:13	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/27/2011	16:59	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011	10:12	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011	17:10	JoElla L Rice	1

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Sample Description: **SL-014-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 13:24	Marie D John	24.08
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:07	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 00:27	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 18:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 06:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 09:40	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/25/2011 22:46	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 00:52	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 19:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 21:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2

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Sample Description: **SL-014-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189212
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6501 SDG#: DE065-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:26	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:02	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:26	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 08:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 01:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 01:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 19:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243202A	02/08/2011 14:20	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:14	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-294-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5		0.83
06192	Methylene Chloride	75-09-2	1.2	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.83

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-294-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	73.2		18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

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Sample Description: **SL-294-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	58	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	2.1		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-294-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	2.2		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	2.1		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1

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Sample Description: SL-294-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.72	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.2	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	22		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	52		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-294-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.59	22.2		1
07914	Boron	7440-42-8	6.19		0.989	5.56		1
01650	Calcium	7440-70-2	8,900		6.81	22.2		1
01654	Iron	7439-89-6	25,800		5.23	22.2		1
01656	Lithium	7439-93-2	24.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,760		2.82	11.1		1
06958	Manganese	7439-96-5	297		0.0867	0.556		1
10145	Phosphorus	7723-14-0	391		0.622	11.1		1
01662	Potassium	7440-09-7	4,140		20.0	55.6		1
01667	Sodium	7440-23-5	502		41.4	111		1
07968	Strontium	7440-24-6	29.5		0.0689	0.556		1
06969	Tin	7440-31-5	2.62	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,230		0.422	1.11		1
10146	Zirconium	7440-67-7	3.58	J	0.933	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.265		0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.17		0.0880	0.440		2
06126	Barium	7440-39-3	81.4		0.119	0.440		2
06127	Beryllium	7440-41-7	0.643		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.250		0.0440	0.110		2
06131	Chromium	7440-47-3	25.1		0.132	0.440		2
06132	Cobalt	7440-48-4	6.85		0.0220	0.110		2
06133	Copper	7440-50-8	12.0		0.0726	0.440		2
06135	Lead	7439-92-1	7.88		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.630		0.0550	0.110		2
06139	Nickel	7440-02-0	13.9		0.110	0.440		2
06141	Selenium	7782-49-2	0.120	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0348	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.290		0.0330	0.110		2
06148	Vanadium	7440-62-2	45.0		0.0242	0.110		2
06149	Zinc	7440-66-6	61.9		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.3		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1

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Sample Description: SL-294-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	348		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.53		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-294-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011	15:01	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011	12:37	Jason M Long	23.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011	18:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011	18:10	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011	12:23	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/27/2011	17:34	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011	08:39	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011	17:10	JoElla L Rice	1

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Sample Description: SL-294-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 14:00	Marie D John	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:10	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 01:10	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 18:38	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 07:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	01/28/2011 21:41	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/25/2011 23:29	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 01:09	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 20:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 21:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 00:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2

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Sample Description: **SL-294-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189213
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:11	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:11	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 00:43	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:11	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 00:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 00:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 00:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 18:02	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 14:38	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:15	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-294-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	220	6.5	7.7		0.86
06192	Benzene	71-43-2	20	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	18	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	21	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	19	0.08	3.9		0.86
06192	Bromoform	75-25-2	20	0.39	3.9		0.86
06192	Bromomethane	74-83-9	14	0.24	3.9		0.86
06192	2-Butanone	78-93-3	150	1.2	7.7		0.86
06192	n-Butylbenzene	104-51-8	16	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	16	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	16	0.15	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	22	0.13	3.9		0.86
06192	Chlorobenzene	108-90-7	19	0.11	3.9		0.86
06192	Chloroethane	75-00-3	13	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	15	0.29	3.9		0.86
06192	Chloroform	67-66-3	20	0.12	3.9		0.86
06192	Chloromethane	74-87-3	13	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	17	0.13	3.9		0.86
06192	4-Chlorotoluene	106-43-4	17	0.13	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	27	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	13	0.68	3.9		0.86
06192	Dibromochloromethane	124-48-1	20	0.19	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	19	0.16	3.9		0.86
06192	Dibromomethane	74-95-3	19	0.23	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	18	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	17	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	17	0.15	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	13	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	19	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	19	0.14	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	21	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	20	0.18	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	18	0.16	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	17	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	20	0.16	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	19	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	16	0.15	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.16	3.9		0.86
06192	Ethylbenzene	100-41-4	18	0.06	3.9		0.86
06192	Freon 113	76-13-1	22	0.11	3.9		0.86
06192	Freon 133a	75-88-7	18	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	14	0.13	3.9		0.86
06192	2-Hexanone	591-78-6	65	1.5	7.7		0.86
06192	Isopropylbenzene	98-82-8	18	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	16	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	17	0.20	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	55	0.38	7.7		0.86
06192	Methylene Chloride	75-09-2	19	0.23	3.9		0.86
06192	n-Propylbenzene	103-65-1	17	0.07	3.9		0.86

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Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	19	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	16	0.22	3.9		0.86
06192	Tetrachloroethene	127-18-4	23	0.19	3.9		0.86
06192	Toluene	108-88-3	19	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	14	0.13	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	13	0.17	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	21	0.19	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	19	0.26	3.9		0.86
06192	Trichloroethene	79-01-6	19	0.14	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	18	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	17	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	17	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	17	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	14	0.19	3.9		0.86
06192	m+p-Xylene	179601-23-1	39	0.16	3.9		0.86
06192	o-Xylene	95-47-6	17	0.16	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	92	4.5	14		20.23
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	835	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700	19	190		1
04688	Acenaphthylene	208-96-8	1,800	19	190		1
04688	Aniline	62-53-3	1,000	190	560		1
04688	Anthracene	120-12-7	1,800	19	190		1
04688	Benzidine	92-87-5	4,900	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600	19	190		1
04688	Benzoic acid	65-85-0	980	190	560		1
04688	Benzyl alcohol	100-51-6	1,600	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700	19	190		1
04688	Carbazole	86-74-8	1,700	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	37	190		1
04688	4-Chloroaniline	106-47-8	860	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500	19	190		1
04688	2-Chlorophenol	95-57-8	1,600	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	37	190		1

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Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,800	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500	19	190		1
04688	Dibenzofuran	132-64-9	1,700	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700	37	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000	37	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,700	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	370		1
04688	Fluoranthene	206-44-0	1,700	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,800	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,300	190	560		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	37	190		1
04688	4-Methylphenol	106-44-5	1,600	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,600	37	190		1
04688	4-Nitroaniline	100-01-6	1,400	75	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,800	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	560		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,700	19	190		1

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Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	2,100		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	36		0.75	1.9		1
10138	Acenaphthylene	208-96-8	35		0.37	1.9		1
10138	Anthracene	120-12-7	36		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	38		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	37		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	41		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	30		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	33		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	38		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	46		6.7	20		1
10138	Chrysene	218-01-9	37		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	33		0.75	1.9		1
10138	Diethylphthalate	84-66-2	42		6.7	20		1
10138	Dimethylphthalate	131-11-3	38		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	55		6.7	20		1
10138	Fluoranthene	206-44-0	40		0.75	1.9		1
10138	Fluorene	86-73-7	37		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	31		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	34		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	31		0.75	1.9		1
10138	Naphthalene	91-20-3	33		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	42		6.7	20		1
10138	Phenanthrene	85-01-8	34		0.75	1.9		1
10138	Pyrene	129-00-0	34		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.2		0.2	1.0		22.52
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1

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Sample Description: SL-294-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,300		45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		45	130	10000000	1
10132	HMX	2691-41-0	2,100		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,200		45	130	10000000	1
10132	Nitroglycerin	55-63-0	50,000		900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		90	130	10000000	1
10132	PETN	78-11-5	58,000		900	2,700	10000000	1
10132	RDX	121-82-4	2,300		56	130	10000000	1
10132	Tetryl	479-45-8	2,200		69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,400		45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	4,800		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	15		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	7.7		0.37	1.9		1
10225	PCB-1260	11096-82-5	17		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: SL-294-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.1	J	0.90	2.7		2
10199	EFH (C15-C20)	n.a.	5.4		0.90	2.7		2
10199	EFH (C21-C30)	n.a.	35		0.90	2.7		2
10199	EFH (C30 - C40)	n.a.	55		0.90	2.7		2
10199	EFH (C8-C11)	n.a.	0.90	U	0.90	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	560		1
10501	Isopropanol	67-63-0	2,200		110	560		1
10501	Methanol	67-56-1	2,100		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	200		5.6	14		1
08283	Ethylene glycol	107-21-1	180		5.6	14		1
08283	Propylene glycol	57-55-6	170		5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	J	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.9	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,800		5.43	21.6		1
07914	Boron	7440-42-8	220		0.960	5.40		1
01650	Calcium	7440-70-2	14,200		6.62	21.6		1
01654	Iron	7439-89-6	28,200		10.2	43.2		2
01656	Lithium	7439-93-2	136		0.24	2.2		1
01657	Magnesium	7439-95-4	6,730		2.74	10.8		1
06958	Manganese	7439-96-5	385		0.0842	0.540		1
10145	Phosphorus	7723-14-0	498		0.604	10.8		1
01662	Potassium	7440-09-7	5,470		19.4	54.0		1
01667	Sodium	7440-23-5	1,640		40.3	108		1
07968	Strontium	7440-24-6	139		0.0669	0.540		1
06969	Tin	7440-31-5	397		1.08	10.8		1
06970	Titanium	7440-32-6	1,650		0.410	1.08		1
10146	Zirconium	7440-67-7	107		0.907	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.813		0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.61		0.0880	0.440		2
06126	Barium	7440-39-3	99.3		0.119	0.440		2
06127	Beryllium	7440-41-7	1.39		0.0176	0.110		2
06128	Cadmium	7440-43-9	1.32		0.0440	0.110		2

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Sample Description: SL-294-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	36.9	0.132	0.440		2
06132	Cobalt	7440-48-4	53.9	0.0220	0.110		2
06133	Copper	7440-50-8	23.0	0.0726	0.440		2
06135	Lead	7439-92-1	12.1	0.0114	0.220		2
06138	Molybdenum	7439-98-7	10.6	0.0550	0.110		2
06139	Nickel	7440-02-0	24.2	0.110	0.440		2
06141	Selenium	7782-49-2	1.80	0.0440	0.440		2
06142	Silver	7440-22-4	10.7	0.0132	0.110		2
06145	Thallium	7440-28-0	0.752	0.0330	0.110		2
06148	Vanadium	7440-62-2	59.2	0.0242	0.110		2
06149	Zinc	7440-66-6	69.6	0.616	3.30		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.231	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.4	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	19.5	0.90	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	603	10.1	33.7		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	45.8	1.1	5.6		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	5.0	0.19	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-294-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 15:23	Chelsea B Eastep	0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 16:08	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 12:57	Jason M Long	20.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:14	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 12:40	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/27/2011 18:09	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 09:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 14:37	Marie D John	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:14	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 01:52	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 18:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 07:34	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 10:05	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/25/2011 23:44	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 01:26	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 21:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	02/01/2011 08:30	Joanne M Gates	2

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Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 21:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 00:52	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:18	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:18	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 00:52	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:18	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 00:52	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 08:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 01:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 01:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 18:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 15:03	Ashley M Adams	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:17	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1

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Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189214
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-294-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189215
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	260	7.4	8.9		0.99
06192	Benzene	71-43-2	24	0.11	4.4		0.99
06192	Bromobenzene	108-86-1	22	0.14	4.4		0.99
06192	Bromochloromethane	74-97-5	25	0.36	4.4		0.99
06192	Bromodichloromethane	75-27-4	22	0.09	4.4		0.99
06192	Bromoform	75-25-2	23	0.44	4.4		0.99
06192	Bromomethane	74-83-9	17	0.28	4.4		0.99
06192	2-Butanone	78-93-3	170	1.4	8.9		0.99
06192	n-Butylbenzene	104-51-8	20	0.13	4.4		0.99
06192	sec-Butylbenzene	135-98-8	21	0.07	4.4		0.99
06192	tert-Butylbenzene	98-06-6	20	0.18	4.4		0.99
06192	Carbon Tetrachloride	56-23-5	26	0.15	4.4		0.99
06192	Chlorobenzene	108-90-7	23	0.12	4.4		0.99
06192	Chloroethane	75-00-3	16	0.14	4.4		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.33	4.4		0.99
06192	Chloroform	67-66-3	24	0.13	4.4		0.99
06192	Chloromethane	74-87-3	17	0.36	4.4		0.99
06192	2-Chlorotoluene	95-49-8	22	0.15	4.4		0.99
06192	4-Chlorotoluene	106-43-4	22	0.15	4.4		0.99
06192	Chlorotrifluoroethene	79-38-9	26	0.44	4.4		0.78
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.77	4.4		0.99
06192	Dibromochloromethane	124-48-1	23	0.22	4.4		0.99
06192	1,2-Dibromoethane	106-93-4	22	0.19	4.4		0.99
06192	Dibromomethane	74-95-3	23	0.27	4.4		0.99
06192	1,2-Dichlorobenzene	95-50-1	22	0.1	4.4		0.99
06192	1,3-Dichlorobenzene	541-73-1	22	0.13	4.4		0.99
06192	1,4-Dichlorobenzene	106-46-7	22	0.18	4.4		0.99
06192	Dichlorodifluoromethane	75-71-8	16	0.13	4.4		0.99
06192	1,1-Dichloroethane	75-34-3	23	0.11	4.4		0.99
06192	1,2-Dichloroethane	107-06-2	23	0.17	4.4		0.99
06192	1,1-Dichloroethene	75-35-4	26	0.43	4.4		0.99
06192	cis-1,2-Dichloroethene	156-59-2	24	0.21	4.4		0.99
06192	trans-1,2-Dichloroethene	156-60-5	26	0.13	4.4		0.99
06192	1,2-Dichloropropane	78-87-5	21	0.19	4.4		0.99
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.4		0.99
06192	2,2-Dichloropropane	594-20-7	25	0.19	4.4		0.99
06192	1,1-Dichloropropene	563-58-6	23	0.14	4.4		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.18	4.4		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.19	4.4		0.99
06192	Ethylbenzene	100-41-4	22	0.07	4.4		0.99
06192	Freon 113	76-13-1	26	0.12	4.4		0.99
06192	Freon 133a	75-88-7	18	0.44	4.4		0.78
06192	Hexachlorobutadiene	87-68-3	18	0.15	4.4		0.99
06192	2-Hexanone	591-78-6	79	1.8	8.9		0.99
06192	Isopropylbenzene	98-82-8	22	0.07	4.4		0.99
06192	p-Isopropyltoluene	99-87-6	21	0.12	4.4		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	21	0.23	4.4		0.99
06192	4-Methyl-2-pentanone	108-10-1	68	0.43	8.9		0.99
06192	Methylene Chloride	75-09-2	23	0.27	4.4		0.99
06192	n-Propylbenzene	103-65-1	22	0.08	4.4		0.99

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Sample Description: SL-294-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189215
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	23	0.11	4.4		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	24	0.12	4.4		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	19	0.25	4.4		0.99
06192	Tetrachloroethene	127-18-4	28	0.22	4.4		0.99
06192	Toluene	108-88-3	24	0.09	4.4		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	16	0.15	4.4		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	16	0.20	4.4		0.99
06192	1,1,1-Trichloroethane	71-55-6	25	0.22	4.4		0.99
06192	1,1,2-Trichloroethane	79-00-5	23	0.30	4.4		0.99
06192	Trichloroethene	79-01-6	24	0.17	4.4		0.99
06192	Trichlorofluoromethane	75-69-4	21	0.32	4.4		0.99
06192	1,2,3-Trichloropropane	96-18-4	20	0.36	4.4		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	21	0.44	4.4		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	21	0.11	4.4		0.99
06192	Vinyl Chloride	75-01-4	18	0.22	4.4		0.99
06192	m+p-Xylene	179601-23-1	47	0.19	4.4		0.99
06192	o-Xylene	95-47-6	21	0.19	4.4		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110	4.5	14		20.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	859	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700	19	190		1
04688	Acenaphthylene	208-96-8	1,800	19	190		1
04688	Aniline	62-53-3	1,000	190	560		1
04688	Anthracene	120-12-7	1,700	19	190		1
04688	Benzidine	92-87-5	5,000	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600	19	190		1
04688	Benzoic acid	65-85-0	950	190	560		1
04688	Benzyl alcohol	100-51-6	1,500	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,000	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700	19	190		1
04688	Carbazole	86-74-8	1,800	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	37	190		1
04688	4-Chloroaniline	106-47-8	890	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600	19	190		1
04688	2-Chlorophenol	95-57-8	1,600	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	37	190		1

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Sample Description: **SL-294-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189215
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,800	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500	19	190		1
04688	Dibenzofuran	132-64-9	1,700	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900	37	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,600	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	19	370		1
04688	Fluoranthene	206-44-0	1,700	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,800	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,900	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,400	190	560		1
04688	Hexachloroethane	67-72-1	1,700	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,600	37	190		1
04688	4-Methylphenol	106-44-5	1,500	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	37	190		1
04688	4-Nitroaniline	100-01-6	1,400	75	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,800	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	19	190		1
04688	Pentachlorophenol	87-86-5	1,200	190	560		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1

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Sample Description: **SL-294-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189215
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	2,000		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.75	1.9		1
10138	Acenaphthylene	208-96-8	33		0.37	1.9		1
10138	Anthracene	120-12-7	35		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	35		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	40		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	27		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	31		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	41		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	46		6.7	20		1
10138	Chrysene	218-01-9	35		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	30		0.75	1.9		1
10138	Diethylphthalate	84-66-2	40		6.7	20		1
10138	Dimethylphthalate	131-11-3	36		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52		6.7	20		1
10138	Fluoranthene	206-44-0	37		0.75	1.9		1
10138	Fluorene	86-73-7	35		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	32		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	29		0.75	1.9		1
10138	Naphthalene	91-20-3	30		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	42		6.7	20		1
10138	Phenanthrene	85-01-8	33		0.75	1.9		1
10138	Pyrene	129-00-0	30		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.3		0.2	1		21.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1

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Sample Description: SL-294-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189215
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,300		45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		45	130	10000000	1
10132	HMX	2691-41-0	2,100		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,200		45	130	10000000	1
10132	Nitroglycerin	55-63-0	49,000		900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,200		90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,200		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		90	130	10000000	1
10132	PETN	78-11-5	58,000		900	2,700	10000000	1
10132	RDX	121-82-4	2,200		56	130	10000000	1
10132	Tetryl	479-45-8	2,200		69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,400		45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	4,800		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	15		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	6.3		0.37	1.9		1
10225	PCB-1260	11096-82-5	18		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

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E6502 SDG#: DE065-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.0	J	0.90	2.7		2
10199	EFH (C15-C20)	n.a.	3.3		0.90	2.7		2
10199	EFH (C21-C30)	n.a.	26		0.90	2.7		2
10199	EFH (C30 - C40)	n.a.	52		0.90	2.7		2
10199	EFH (C8-C11)	n.a.	0.90	U	0.90	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,400		110	560		1
10501	Isopropanol	67-63-0	2,400		110	560		1
10501	Methanol	67-56-1	2,200		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	180		5.6	14		1
08283	Ethylene glycol	107-21-1	200		5.6	14		1
08283	Propylene glycol	57-55-6	190		5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	J	1.6	3.9		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.4	J	1.3	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000		5.53	22.0		1
07914	Boron	7440-42-8	219		0.979	5.50		1
01650	Calcium	7440-70-2	13,600		6.75	22.0		1
01654	Iron	7439-89-6	28,700		5.18	22.0		1
01656	Lithium	7439-93-2	136		0.24	2.2		1
01657	Magnesium	7439-95-4	6,610		2.79	11.0		1
06958	Manganese	7439-96-5	392		0.0858	0.550		1
10145	Phosphorus	7723-14-0	504		0.616	11.0		1
01662	Potassium	7440-09-7	5,670		19.8	55.0		1
01667	Sodium	7440-23-5	1,600		41.0	110		1
07968	Strontium	7440-24-6	141		0.0682	0.550		1
06969	Tin	7440-31-5	396		1.10	11.0		1
06970	Titanium	7440-32-6	1,670		0.418	1.10		1
10146	Zirconium	7440-67-7	107		0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.831		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.88		0.0863	0.432		2
06126	Barium	7440-39-3	95.3		0.117	0.432		2
06127	Beryllium	7440-41-7	1.38		0.0173	0.108		2
06128	Cadmium	7440-43-9	1.31		0.0432	0.108		2

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SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189215
LLI Group # 1230076
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Project Name: SSFL Area IV Collocated Soil Sampling

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E6502 SDG#: DE065-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	36.6	0.130	0.432		2
06132	Cobalt	7440-48-4	55.5	0.0216	0.108		2
06133	Copper	7440-50-8	22.7	0.0712	0.432		2
06135	Lead	7439-92-1	11.7	0.0112	0.216		2
06138	Molybdenum	7439-98-7	11.4	0.0540	0.108		2
06139	Nickel	7440-02-0	25.2	0.108	0.432		2
06141	Selenium	7782-49-2	1.80	0.0432	0.432		2
06142	Silver	7440-22-4	11.1	0.0130	0.108		2
06145	Thallium	7440-28-0	0.720	0.0324	0.108		2
06148	Vanadium	7440-62-2	58.9	0.0237	0.108		2
06149	Zinc	7440-66-6	78.1	0.604	3.24		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.182	0.0032	0.110		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-294-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 15:46	Chelsea B Eastep	0.99
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 16:31	Chelsea B Eastep	0.78
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 13:16	Jason M Long	20.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:17	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 12:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/27/2011 18:44	Matthew S Woods	1

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Sample Description: **SL-294-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189215
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14420 Albemarle Point Place
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E6502 SDG#: DE065-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 09:41	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 15:13	Marie D John	21.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:17	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 02:34	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 18:57	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 07:52	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 10:30	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/25/2011 23:59	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 01:44	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 22:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 21:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 00:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-294-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189215
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:21	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:21	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 00:55	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:21	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:21	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 00:55	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-294-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189216
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		5.65	22.4		1
07914	Boron	7440-42-8	6.24		0.999	5.61		1
01650	Calcium	7440-70-2	10,900		6.88	22.4		1
01654	Iron	7439-89-6	28,100		5.29	22.4		1
01656	Lithium	7439-93-2	23.7		0.25	2.2		1
01657	Magnesium	7439-95-4	5,780		2.85	11.2		1
06958	Manganese	7439-96-5	347		0.0875	0.561		1
10145	Phosphorus	7723-14-0	372		0.629	11.2		1
01662	Potassium	7440-09-7	4,110		20.2	56.1		1
01667	Sodium	7440-23-5	516		41.9	112		1
07968	Strontium	7440-24-6	31.1		0.0696	0.561		1
06969	Tin	7440-31-5	2.79	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,290		0.426	1.12		1
10146	Zirconium	7440-67-7	4.71	J	0.943	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.195	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.35		0.0898	0.449		2
06126	Barium	7440-39-3	148		0.121	0.449		2
06127	Beryllium	7440-41-7	0.708		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.207		0.0449	0.112		2
06131	Chromium	7440-47-3	27.3		0.135	0.449		2
06132	Cobalt	7440-48-4	7.38		0.0224	0.112		2
06133	Copper	7440-50-8	12.9		0.0741	0.449		2
06135	Lead	7439-92-1	8.70		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.585		0.0561	0.112		2
06139	Nickel	7440-02-0	15.2		0.112	0.449		2
06141	Selenium	7782-49-2	0.0717	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0420	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.302		0.0337	0.112		2
06148	Vanadium	7440-62-2	47.1		0.0247	0.112		2
06149	Zinc	7440-66-6	59.9		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	8.3		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-294-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189216
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	348		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.53		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 21:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 00:49	David K Beck	2

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189216
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6502 SDG#: DE065-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:16	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 00:49	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:16	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 00:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 08:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 01:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 01:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 18:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 15:41	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:16	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	5.6	U	5.6	6.7		0.75
06192	Benzene	71-43-2	0.08	U	0.08	3.3		0.75
06192	Bromobenzene	108-86-1	0.11	U	0.11	3.3		0.75
06192	Bromochloromethane	74-97-5	0.28	U	0.28	3.3		0.75
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.3		0.75
06192	Bromoform	75-25-2	0.33	U	0.33	3.3		0.75
06192	Bromomethane	74-83-9	0.21	U	0.21	3.3		0.75
06192	2-Butanone	78-93-3	1.0	U	1.0	6.7		0.75
06192	n-Butylbenzene	104-51-8	0.1	U	0.1	3.3		0.75
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.3		0.75
06192	tert-Butylbenzene	98-06-6	0.13	U	0.13	3.3		0.75
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.3		0.75
06192	Chlorobenzene	108-90-7	0.09	U	0.09	3.3		0.75
06192	Chloroethane	75-00-3	0.11	U	0.11	3.3		0.75
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.25	U	0.25	3.3		0.75
06192	Chloroform	67-66-3	0.1	U	0.1	3.3		0.75
06192	Chloromethane	74-87-3	0.28	U	0.28	3.3		0.75
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.3		0.75
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.3		0.75
06192	Chlorotrifluoroethene	79-38-9	0.42	U	0.42	4.2		0.75
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.59	U	0.59	3.3		0.75
06192	Dibromochloromethane	124-48-1	0.17	U	0.17	3.3		0.75
06192	1,2-Dibromoethane	106-93-4	0.14	U	0.14	3.3		0.75
06192	Dibromomethane	74-95-3	0.20	U	0.20	3.3		0.75
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.3		0.75
06192	1,3-Dichlorobenzene	541-73-1	0.1	U	0.1	3.3		0.75
06192	1,4-Dichlorobenzene	106-46-7	0.13	U	0.13	3.3		0.75
06192	Dichlorodifluoromethane	75-71-8	0.1	U	0.1	3.3		0.75
06192	1,1-Dichloroethane	75-34-3	0.08	U	0.08	3.3		0.75
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.3		0.75
06192	1,1-Dichloroethene	75-35-4	0.33	U	0.33	3.3		0.75
06192	cis-1,2-Dichloroethene	156-59-2	0.16	U	0.16	3.3		0.75
06192	trans-1,2-Dichloroethene	156-60-5	0.1	U	0.1	3.3		0.75
06192	1,2-Dichloropropane	78-87-5	0.14	U	0.14	3.3		0.75
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.3		0.75
06192	2,2-Dichloropropane	594-20-7	0.14	U	0.14	3.3		0.75
06192	1,1-Dichloropropene	563-58-6	0.11	U	0.11	3.3		0.75
06192	cis-1,3-Dichloropropene	10061-01-5	0.13	U	0.13	3.3		0.75
06192	trans-1,3-Dichloropropene	10061-02-6	0.14	U	0.14	3.3		0.75
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.3		0.75
06192	Freon 113	76-13-1	0.09	U	0.09	3.3		0.75
06192	Freon 133a	75-88-7	0.42	U	0.42	4.2		0.75
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.3		0.75
06192	2-Hexanone	591-78-6	1.3	U	1.3	6.7		0.75
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.3		0.75
06192	p-Isopropyltoluene	99-87-6	0.09	U	0.09	3.3		0.75
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.18	U	0.18	3.3		0.75
06192	4-Methyl-2-pentanone	108-10-1	0.33	U	0.33	6.7		0.75
06192	Methylene Chloride	75-09-2	0.86	J	0.20	3.3		0.75
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.3		0.75

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Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.08	U	0.08	3.3		0.75
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.09	U	0.09	3.3		0.75
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.19	U	0.19	3.3		0.75
06192	Tetrachloroethene	127-18-4	0.17	U	0.17	3.3		0.75
06192	Toluene	108-88-3	0.07	U	0.07	3.3		0.75
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.3		0.75
06192	1,2,4-Trichlorobenzene	120-82-1	0.15	U	0.15	3.3		0.75
06192	1,1,1-Trichloroethane	71-55-6	0.17	U	0.17	3.3		0.75
06192	1,1,2-Trichloroethane	79-00-5	0.23	U	0.23	3.3		0.75
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.3		0.75
06192	Trichlorofluoromethane	75-69-4	0.24	U	0.24	3.3		0.75
06192	1,2,3-Trichloropropane	96-18-4	0.28	U	0.28	3.3		0.75
06192	1,2,4-Trimethylbenzene	95-63-6	0.33	U	0.33	3.3		0.75
06192	1,3,5-Trimethylbenzene	108-67-8	0.08	U	0.08	3.3		0.75
06192	Vinyl Chloride	75-01-4	0.17	U	0.17	3.3		0.75
06192	m+p-Xylene	179601-23-1	0.14	U	0.14	3.3		0.75
06192	o-Xylene	95-47-6	0.14	U	0.14	3.3		0.75
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.12
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	84.2		18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1

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Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.47	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.84	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: **SL-294-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	6.7	20		1
10138	Fluoranthene	206-44-0	1.1	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.8	J	0.74	1.9		1
10138	Pyrene	129-00-0	0.90	J	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.65	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.6		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	18		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	36		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.37	21.4		1
07914	Boron	7440-42-8	2.46	J	0.951	5.34		1
01650	Calcium	7440-70-2	6,480		6.55	21.4		1
01654	Iron	7439-89-6	19,600		5.03	21.4		1
01656	Lithium	7439-93-2	21.9		0.24	2.1		1
01657	Magnesium	7439-95-4	4,500		2.71	10.7		1
06958	Manganese	7439-96-5	276		0.0833	0.534		1
10145	Phosphorus	7723-14-0	402		0.598	10.7		1
01662	Potassium	7440-09-7	2,720		19.2	53.4		1
01667	Sodium	7440-23-5	365		39.9	107		1
07968	Strontium	7440-24-6	21.8		0.0662	0.534		1
06969	Tin	7440-31-5	2.59	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,120		0.406	1.07		1
10146	Zirconium	7440-67-7	1.95	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0920	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.39		0.0863	0.431		2
06126	Barium	7440-39-3	81.9		0.117	0.431		2
06127	Beryllium	7440-41-7	0.440		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.190		0.0431	0.108		2
06131	Chromium	7440-47-3	15.6		0.129	0.431		2
06132	Cobalt	7440-48-4	4.91		0.0216	0.108		2
06133	Copper	7440-50-8	8.61		0.0712	0.431		2
06135	Lead	7439-92-1	5.52		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.563		0.0539	0.108		2
06139	Nickel	7440-02-0	8.68		0.108	0.431		2
06141	Selenium	7782-49-2	0.122	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0524	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.246		0.0324	0.108		2
06148	Vanadium	7440-62-2	30.4		0.0237	0.108		2
06149	Zinc	7440-66-6	59.8		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.1		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	345		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.76		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-294-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011	16:53	Chelsea B Eastep	0.75
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011	13:36	Jason M Long	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:20	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011	18:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011	18:20	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011	13:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/27/2011	19:19	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011	10:43	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011	17:10	JoElla L Rice	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 15:49	Marie D John	19.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:19	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 03:17	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 19:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 09:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	01/28/2011 19:36	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 00:28	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/25/2011 22:00	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 10:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:07	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:05	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2

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Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189217
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6503 SDG#: DE065-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:28	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:05	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:28	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:28	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:05	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 08:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 01:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 01:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 19:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 15:53	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:18	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP19-SA5B-QC-012011 Soil
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6504 SDG#: DE065-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	0.56	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP19-SA5B-QC-012011 Soil
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6504 SDG#: DE065-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.55
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	96.8		19.6	39.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200		1

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Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6504 SDG#: DE065-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.71	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1

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Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6504 SDG#: DE065-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.94	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1

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Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6504 SDG#: DE065-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.66	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	39		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	81		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6504 SDG#: DE065-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,700		5.85	23.2		1
07914	Boron	7440-42-8	4.24	J	1.03	5.81		1
01650	Calcium	7440-70-2	11,700		7.12	23.2		1
01654	Iron	7439-89-6	26,500		10.9	46.5		2
01656	Lithium	7439-93-2	24.3		0.26	2.3		1
01657	Magnesium	7439-95-4	6,510		2.95	11.6		1
06958	Manganese	7439-96-5	494		0.0906	0.581		1
10145	Phosphorus	7723-14-0	260		0.651	11.6		1
01662	Potassium	7440-09-7	2,910		20.9	58.1		1
01667	Sodium	7440-23-5	444		43.3	116		1
07968	Strontium	7440-24-6	34.1		0.0720	0.581		1
06969	Tin	7440-31-5	2.94	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,340		0.442	1.16		1
10146	Zirconium	7440-67-7	4.56	J	0.976	5.81		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.189	J	0.0697	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0930	0.465		2
06126	Barium	7440-39-3	111		0.126	0.465		2
06127	Beryllium	7440-41-7	0.642		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.203		0.0465	0.116		2
06131	Chromium	7440-47-3	26.9		0.139	0.465		2
06132	Cobalt	7440-48-4	6.03		0.0232	0.116		2
06133	Copper	7440-50-8	13.2		0.0767	0.465		2
06135	Lead	7439-92-1	6.77		0.0121	0.232		2
06138	Molybdenum	7439-98-7	1.52		0.0581	0.116		2
06139	Nickel	7440-02-0	14.2		0.116	0.465		2
06141	Selenium	7782-49-2	0.0867	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0408	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.289		0.0349	0.116		2
06148	Vanadium	7440-62-2	44.3		0.0256	0.116		2
06149	Zinc	7440-66-6	60.3		0.651	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.0		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6504 SDG#: DE065-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	353		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.42		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 17:16	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 13:55	Jason M Long	21.55
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:23	Christopher D Meeks	n.a.

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Sample Description: DUP19-SA5B-QC-012011 Soil
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E6504 SDG#: DE065-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 13:47	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/27/2011 19:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 11:14	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 16:26	Marie D John	21.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:22	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 03:59	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 19:16	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 09:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 10:55	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 00:43	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 02:53	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 23:50	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	02/01/2011 08:33	Joanne M Gates	2
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:11	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189218
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6504 SDG#: DE065-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:14	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:35	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:14	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:35	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 02:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 02:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 20:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 16:05	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:20	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB23-SA5B-012011 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5B-012011

LLI Sample # WW 6189219
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6505 SDG#: DE065-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB23-SA5B-012011 Water
SSFL Area IV Collocated Soil Sampling
EB23-SA5B-012011

LLI Sample # WW 6189219
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6505 SDG#: DE065-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000054	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB23-SA5B-012011 Water**
SSFL Area IV Collocated Soil Sampling
EB23-SA5B-012011

LLI Sample # WW 6189219
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6505 SDG#: DE065-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11025WAE026	01/27/2011	06:19	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	11025WAE026	01/25/2011	16:00	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110250001A	02/01/2011	06:19	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110250001A	01/25/2011	14:30	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
08014	Boron	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
01750	Calcium	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
01754	Iron	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
01756	Lithium	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
07058	Manganese	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
01762	Potassium	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
01767	Sodium	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1
08068	Strontium	SW-846 6010B	1	110241848013	01/28/2011	17:45	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB23-SA5B-012011 Water**
SSFL Area IV Collocated Soil Sampling
EB23-SA5B-012011

LLI Sample # WW 6189219
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6505 SDG#: DE065-05EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07069	Tin	SW-846 6010B	1	110241848013	01/28/2011 17:45	John P Hook	1
07070	Titanium	SW-846 6010B	1	110241848013	01/28/2011 17:45	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110241848013	01/28/2011 17:45	John P Hook	1
06024	Antimony	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06025	Arsenic	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06026	Barium	SW-846 6020	1	110246050006D	01/29/2011 18:15	David K Beck	1
06027	Beryllium	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06028	Cadmium	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06031	Chromium	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06032	Cobalt	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06033	Copper	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06035	Lead	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110246050006C	01/29/2011 18:15	David K Beck	1
06039	Nickel	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06041	Selenium	SW-846 6020	1	110246050006B	01/29/2011 18:15	David K Beck	1
06042	Silver	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06045	Thallium	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06048	Vanadium	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
06049	Zinc	SW-846 6020	1	110246050006A	01/29/2011 18:15	David K Beck	1
00259	Mercury	SW-846 7470A	1	110265713008	01/28/2011 05:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110241848013	01/25/2011 08:46	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110246050006	01/25/2011 08:43	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110265713008	01/27/2011 05:55	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11026196602A	01/27/2011 01:48	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11034621701A	02/03/2011 14:11	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11021196401A	01/21/2011 13:12	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-030-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.87
06192	Methylene Chloride	75-09-2	0.58	J	0.24	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

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Sample Description: **SL-030-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		23.99
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	83.9		19.5	39.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-030-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	2.5		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-030-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		7.0	21		1
10138	Fluoranthene	206-44-0	2.2		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	2.7		0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	700	U	700	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.66	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.7	U	4.7	14		10
10199	EFH (C15-C20)	n.a.	4.7	U	4.7	14		10
10199	EFH (C21-C30)	n.a.	37		4.7	14		10
10199	EFH (C30 - C40)	n.a.	220		4.7	14		10
10199	EFH (C8-C11)	n.a.	4.7	U	4.7	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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Sample Description: **SL-030-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		5.73	22.8		1
07914	Boron	7440-42-8	5.60	J	1.01	5.69		1
01650	Calcium	7440-70-2	12,000		6.98	22.8		1
01654	Iron	7439-89-6	29,200		10.7	45.5		2
01656	Lithium	7439-93-2	24.7		0.25	2.3		1
01657	Magnesium	7439-95-4	6,510		2.89	11.4		1
06958	Manganese	7439-96-5	406		0.0888	0.569		1
10145	Phosphorus	7723-14-0	304		0.637	11.4		1
01662	Potassium	7440-09-7	3,640		20.5	56.9		1
01667	Sodium	7440-23-5	515		42.5	114		1
07968	Strontium	7440-24-6	37.0		0.0706	0.569		1
06969	Tin	7440-31-5	2.69	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,370		0.433	1.14		1
10146	Zirconium	7440-67-7	5.14	J	0.956	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.51		0.0919	0.460		2
06126	Barium	7440-39-3	121		0.124	0.460		2
06127	Beryllium	7440-41-7	0.711		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.201		0.0460	0.115		2
06131	Chromium	7440-47-3	30.1		0.138	0.460		2
06132	Cobalt	7440-48-4	7.64		0.0230	0.115		2
06133	Copper	7440-50-8	14.3		0.0759	0.460		2
06135	Lead	7439-92-1	8.64		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.843		0.0575	0.115		2
06139	Nickel	7440-02-0	15.8		0.115	0.460		2
06141	Selenium	7782-49-2	0.185	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0446	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.325		0.0345	0.115		2
06148	Vanadium	7440-62-2	54.1		0.0253	0.115		2
06149	Zinc	7440-66-6	62.2		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-030-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	379		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.38		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-030-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 17:38	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 14:15	Jason M Long	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.

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Sample Description: **SL-030-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:25	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 14:03	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 00:26	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 11:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 12:10	Marie D John	19.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:25	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 06:06	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 19:25	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110310001A	02/03/2011 14:05	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 10:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110310001A	01/31/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 11:20	Heather E Williams	10
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 00:58	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/25/2011 22:17	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/30/2011 00:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	02/01/2011 08:37	Joanne M Gates	2
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1

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Sample Description: SL-030-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189220
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6506 SDG#: DE065-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:15	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:18	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:38	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:18	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:38	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:18	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 02:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 02:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 20:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243202A	02/08/2011 16:12	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:21	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-030-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6507 SDG#: DE065-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		6.7	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.88
06192	Methylene Chloride	75-09-2	0.61	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: **SL-030-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6507 SDG#: DE065-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.78
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	91.3		19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-030-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6507 SDG#: DE065-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.8	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	4.1		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.6		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	7.6	J	6.9	21		1
10138	Chrysene	218-01-9	9.3		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: **SL-030-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6507 SDG#: DE065-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	71		6.9	21		1
10138	Fluoranthene	206-44-0	5.9		0.76	1.9		1
10138	Fluorene	86-73-7	1.3	J	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.79	J	0.76	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	6.7		0.76	1.9		1
10138	Pyrene	129-00-0	5.6		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.84
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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Sample Description: SL-030-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

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E6507 SDG#: DE065-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	6,600		690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	1.2	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	4.6	U	4.6	14		10
10199	EFH (C21-C30)	n.a.	62		4.6	14		10
10199	EFH (C30 - C40)	n.a.	130		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	200	J	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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Sample Description: SL-030-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6507 SDG#: DE065-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,100		5.76	22.9		1
07914	Boron	7440-42-8	7.14		1.02	5.73		1
01650	Calcium	7440-70-2	11,500		7.02	22.9		1
01654	Iron	7439-89-6	29,800		5.40	22.9		1
01656	Lithium	7439-93-2	23.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,100		2.91	11.5		1
06958	Manganese	7439-96-5	374		0.0893	0.573		1
10145	Phosphorus	7723-14-0	369		0.641	11.5		1
01662	Potassium	7440-09-7	4,220		20.6	57.3		1
01667	Sodium	7440-23-5	358		42.7	115		1
07968	Strontium	7440-24-6	38.6		0.0710	0.573		1
06969	Tin	7440-31-5	2.69	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,320		0.435	1.15		1
10146	Zirconium	7440-67-7	4.05	J	0.962	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.181	J	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.67		0.0890	0.445		2
06126	Barium	7440-39-3	117		0.120	0.445		2
06127	Beryllium	7440-41-7	0.687		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.380		0.0445	0.111		2
06131	Chromium	7440-47-3	27.2		0.133	0.445		2
06132	Cobalt	7440-48-4	8.30		0.0222	0.111		2
06133	Copper	7440-50-8	14.3		0.0734	0.445		2
06135	Lead	7439-92-1	9.29		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.506		0.0556	0.111		2
06139	Nickel	7440-02-0	15.0		0.111	0.445		2
06141	Selenium	7782-49-2	0.136	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0347	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.358		0.0334	0.111		2
06148	Vanadium	7440-62-2	50.3		0.0245	0.111		2
06149	Zinc	7440-66-6	62.5		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.883		0.0156	0.543		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-030-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6507 SDG#: DE065-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	379		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.51		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-030-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 18:01	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 14:35	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.

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Sample Description: SL-030-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E6507 SDG#: DE065-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:28	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 14:20	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 01:00	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 12:17	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 17:02	Marie D John	19.84
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:28	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 06:49	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 19:44	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 10:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 11:45	Heather E Williams	10
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 01:13	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 03:44	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/30/2011 01:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:19	John W Yanzuk II	1

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Sample Description: **SL-030-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189221
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6507 SDG#: DE065-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:21	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:40	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:21	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:40	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:21	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:15	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 02:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 02:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 21:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 16:30	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:22	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB24-SA5B-012011 Water
SSFL Area IV Collocated Soil Sampling
EB24-SA5B-012011

LLI Sample # WW 6189222
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:35

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6508 SDG#: DE065-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	22	U	22	65		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1

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Analysis Report

Sample Description: EB24-SA5B-012011 Water
SSFL Area IV Collocated Soil Sampling
EB24-SA5B-012011

LLI Sample # WW 6189222
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:35

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6508 SDG#: DE065-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.55		1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.55		1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.55		1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.55		1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.55		1
10227	PCB-1232	11141-16-5	0.22	U	0.22	0.55		1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.55		1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.55		1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.55		1
10227	PCB-1260	11096-82-5	0.11	U	0.11	0.55		1
10227	PCB-1262	37324-23-5	0.22	U	0.22	0.55		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.55		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000072	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB24-SA5B-012011 Water
SSFL Area IV Collocated Soil Sampling
EB24-SA5B-012011

LLI Sample # WW 6189222
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:35

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6508 SDG#: DE065-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11025WAE026	01/27/2011	06:44	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	11025WAE026	01/25/2011	16:00	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110250001A	02/01/2011	06:38	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110250001A	01/25/2011	14:30	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
08014	Boron	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
01750	Calcium	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
01754	Iron	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
01756	Lithium	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
07058	Manganese	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
01762	Potassium	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
01767	Sodium	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1
08068	Strontium	SW-846 6010B	1	110241848013	01/28/2011	17:48	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB24-SA5B-012011 Water
SSFL Area IV Collocated Soil Sampling
EB24-SA5B-012011

LLI Sample # WW 6189222
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:35

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6508 SDG#: DE065-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07069	Tin	SW-846 6010B	1	110241848013	01/28/2011 17:48	John P Hook	1
07070	Titanium	SW-846 6010B	1	110241848013	01/28/2011 17:48	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110241848013	01/28/2011 17:48	John P Hook	1
06024	Antimony	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06025	Arsenic	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06026	Barium	SW-846 6020	1	110246050006D	01/29/2011 18:18	David K Beck	1
06027	Beryllium	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06028	Cadmium	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06031	Chromium	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06032	Cobalt	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06033	Copper	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06035	Lead	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110246050006C	01/29/2011 18:18	David K Beck	1
06039	Nickel	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06041	Selenium	SW-846 6020	1	110246050006B	01/29/2011 18:18	David K Beck	1
06042	Silver	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06045	Thallium	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06048	Vanadium	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
06049	Zinc	SW-846 6020	1	110246050006A	01/29/2011 18:18	David K Beck	1
00259	Mercury	SW-846 7470A	1	110265713008	01/28/2011 05:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110241848013	01/25/2011 08:46	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110246050006	01/25/2011 08:43	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110265713008	01/27/2011 05:55	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11026196602A	01/27/2011 02:04	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11034621701A	02/03/2011 14:34	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11021196401A	01/21/2011 13:24	Ashley M Adams	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6509 SDG#: DE065-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.02
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.02
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.02
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.02
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		1.02
06192	Methylene Chloride	75-09-2	0.73	J	0.27	4.5		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.02

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6509 SDG#: DE065-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		1.02
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.02
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		24.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	198		18.3	36.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100		1

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Sample Description: SL-035-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6509 SDG#: DE065-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	J	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.5	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.5		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.93	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	15	J	6.6	20		1

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Sample Description: **SL-035-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6509 SDG#: DE065-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	4.1		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	110		6.6	20		1
10138	Fluoranthene	206-44-0	5.8		0.73	1.8		1
10138	Fluorene	86-73-7	0.85	J	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.90	J	0.73	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	5.7		0.73	1.8		1
10138	Pyrene	129-00-0	4.4		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1

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Sample Description: SL-035-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6509 SDG#: DE065-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	1,300	J	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.57	J	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.2	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	2.0	J	0.88	2.6		2
10199	EFH (C21-C30)	n.a.	25		0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	50		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the

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Sample Description: SL-035-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6509 SDG#: DE065-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.43	21.6		1
07914	Boron	7440-42-8	2.51	J	0.960	5.39		1
01650	Calcium	7440-70-2	6,950		6.61	21.6		1
01654	Iron	7439-89-6	19,700		5.08	21.6		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,030		2.74	10.8		1
06958	Manganese	7439-96-5	262		0.0841	0.539		1
10145	Phosphorus	7723-14-0	335		0.604	10.8		1
01662	Potassium	7440-09-7	2,960		19.4	53.9		1
01667	Sodium	7440-23-5	414		40.2	108		1
07968	Strontium	7440-24-6	22.0		0.0669	0.539		1
06969	Tin	7440-31-5	2.53	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,100		0.410	1.08		1
10146	Zirconium	7440-67-7	2.36	J	0.906	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0937	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.26		0.0880	0.440		2
06126	Barium	7440-39-3	75.1		0.119	0.440		2
06127	Beryllium	7440-41-7	0.425		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.152		0.0440	0.110		2
06131	Chromium	7440-47-3	14.4		0.132	0.440		2
06132	Cobalt	7440-48-4	4.66		0.0220	0.110		2
06133	Copper	7440-50-8	7.96		0.0726	0.440		2
06135	Lead	7439-92-1	5.86		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.415		0.0550	0.110		2
06139	Nickel	7440-02-0	7.78		0.110	0.440		2
06141	Selenium	7782-49-2	0.160	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0213	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.240		0.0330	0.110		2
06148	Vanadium	7440-62-2	28.3		0.0242	0.110		2
06149	Zinc	7440-66-6	56.3		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.88	1.7		1

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Sample Description: SL-035-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E6509 SDG#: DE065-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.76		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-035-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 18:23	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 14:55	Jason M Long	24.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.

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Sample Description: **SL-035-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
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Project Name: SSFL Area IV Collocated Soil Sampling

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E6509 SDG#: DE065-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:32	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 14:36	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 01:35	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 12:48	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 17:39	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:32	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 07:31	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 19:54	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 10:39	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 12:09	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 01:27	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 03:10	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/30/2011 02:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:24	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-035-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189223
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6509 SDG#: DE065-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:24	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:43	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:24	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:43	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:24	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 02:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 02:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 21:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 16:43	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:25	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-035-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6510 SDG#: DE065-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		6.8	8.1		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.94
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.94
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.94
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.94
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.94
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.94
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.94
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.94
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.94
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.94
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.94
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.94
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.94
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.94
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.94
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.94
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.94
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.94
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.94
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.94
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.94
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.94
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.94
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.94
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.94
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.94
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.94
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.94
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.94
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.94
06192	Methylene Chloride	75-09-2	0.67	J	0.24	4.1		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.94

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Sample Description: SL-035-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6510 SDG#: DE065-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.94
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.94
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.94
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.94
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.94
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.94
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	224		90.1	180		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100		1

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Sample Description: SL-035-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6510 SDG#: DE065-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.65	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	3.9		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.7		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	5.9		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1

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Sample Description: **SL-035-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6510 SDG#: DE065-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	23		6.5	19		1
10138	Fluoranthene	206-44-0	7.6		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.85	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.76	J	0.72	1.8		1
10138	Naphthalene	91-20-3	0.79	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	1.4	J	0.72	1.8		1
10138	Pyrene	129-00-0	5.7		0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.22
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1

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Sample Description: SL-035-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6510 SDG#: DE065-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.6	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	4.2		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	9.0		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-035-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6510 SDG#: DE065-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.28	21.0		1
07914	Boron	7440-42-8	3.22	J	0.934	5.25		1
01650	Calcium	7440-70-2	4,310		6.43	21.0		1
01654	Iron	7439-89-6	18,200		4.94	21.0		1
01656	Lithium	7439-93-2	20.6		0.23	2.1		1
01657	Magnesium	7439-95-4	3,700		2.67	10.5		1
06958	Manganese	7439-96-5	235		0.0819	0.525		1
10145	Phosphorus	7723-14-0	333		0.588	10.5		1
01662	Potassium	7440-09-7	2,900		18.9	52.5		1
01667	Sodium	7440-23-5	995		39.1	105		1
07968	Strontium	7440-24-6	17.2		0.0651	0.525		1
06969	Tin	7440-31-5	2.51	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,040		0.399	1.05		1
10146	Zirconium	7440-67-7	1.85	J	0.882	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0893	J	0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.66		0.0832	0.416		2
06126	Barium	7440-39-3	66.7		0.112	0.416		2
06127	Beryllium	7440-41-7	0.424		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.123		0.0416	0.104		2
06131	Chromium	7440-47-3	10.9		0.125	0.416		2
06132	Cobalt	7440-48-4	3.80		0.0208	0.104		2
06133	Copper	7440-50-8	5.87		0.0686	0.416		2
06135	Lead	7439-92-1	4.84		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.393		0.0520	0.104		2
06139	Nickel	7440-02-0	6.49		0.104	0.416		2
06141	Selenium	7782-49-2	0.119	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.0224	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.255		0.0312	0.104		2
06148	Vanadium	7440-62-2	22.8		0.0229	0.104		2
06149	Zinc	7440-66-6	48.5		0.582	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.22	1.1		1

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Sample Description: SL-035-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6510 SDG#: DE065-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-035-SA5B-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 18:46	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 15:14	Jason M Long	24.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 18:46	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:36	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	02/01/2011 16:54	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 02:10	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 13:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1

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Sample Description: SL-035-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E6510 SDG#: DE065-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 18:15	Marie D John	24.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:35	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 08:13	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 20:03	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 10:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	01/28/2011 19:11	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 01:42	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/25/2011 22:34	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 11:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:27	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2

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Sample Description: **SL-035-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189224
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6510 SDG#: DE065-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:45	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:45	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:27	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:45	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:45	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:27	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 03:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 03:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 21:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 16:55	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:27	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-034-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	4.9		0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: SL-034-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		24.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	64.2		18.9	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-034-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	2.7		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.2		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.96	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	7.5	J	6.8	20		1
10138	Chrysene	218-01-9	5.2		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Sample Description: **SL-034-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	50		6.8	20		1
10138	Fluoranthene	206-44-0	4.9		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	3.2		0.76	1.9		1
10138	Pyrene	129-00-0	4.3		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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Sample Description: SL-034-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	1,800		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.78	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	9.1	U	9.1	27		20
10199	EFH (C15-C20)	n.a.	9.1	U	9.1	27		20
10199	EFH (C21-C30)	n.a.	78		9.1	27		20
10199	EFH (C30 - C40)	n.a.	200		9.1	27		20
10199	EFH (C8-C11)	n.a.	9.1	U	9.1	27		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-034-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.60	22.3		1
07914	Boron	7440-42-8	4.96	J	0.992	5.57		1
01650	Calcium	7440-70-2	9,100		6.83	22.3		1
01654	Iron	7439-89-6	22,200		5.25	22.3		1
01656	Lithium	7439-93-2	21.2		0.25	2.2		1
01657	Magnesium	7439-95-4	4,710		2.83	11.1		1
06958	Manganese	7439-96-5	283		0.0869	0.557		1
10145	Phosphorus	7723-14-0	363		0.624	11.1		1
01662	Potassium	7440-09-7	3,250		20.1	55.7		1
01667	Sodium	7440-23-5	454		41.6	111		1
07968	Strontium	7440-24-6	29.0		0.0691	0.557		1
06969	Tin	7440-31-5	2.51	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,220		0.423	1.11		1
10146	Zirconium	7440-67-7	3.32	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.96		0.0900	0.450		2
06126	Barium	7440-39-3	84.8		0.122	0.450		2
06127	Beryllium	7440-41-7	0.440		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.160		0.0450	0.113		2
06131	Chromium	7440-47-3	15.1		0.135	0.450		2
06132	Cobalt	7440-48-4	4.88		0.0225	0.113		2
06133	Copper	7440-50-8	8.84		0.0743	0.450		2
06135	Lead	7439-92-1	5.42		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.423		0.0563	0.113		2
06139	Nickel	7440-02-0	9.13		0.113	0.450		2
06141	Selenium	7782-49-2	0.0825	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0341	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.222		0.0338	0.113		2
06148	Vanadium	7440-62-2	28.8		0.0248	0.113		2
06149	Zinc	7440-66-6	69.3		0.630	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.23	1.1		1

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Sample Description: SL-034-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	336		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-034-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011	19:08	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011	15:34	Jason M Long	24.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011	18:46	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011	18:39	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011	15:26	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011	02:44	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011	13:50	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011	17:10	JoElla L Rice	1

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Sample Description: SL-034-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 12:48	Marie D John	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:38	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 08:56	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 20:13	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 11:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 12:34	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 02:26	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/25/2011 22:51	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 11:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:30	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2

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Sample Description: SL-034-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189225
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6511 SDG#: DE065-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:48	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:30	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:48	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:30	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 03:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 03:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 22:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 17:20	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101A	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401A	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	14		6.6	7.9		0.9
06192	Benzene	71-43-2	0.13	J	0.1	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.9
06192	Methylene Chloride	75-09-2	0.83	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.10	J	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.63
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	67.2		18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1

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Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	55	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.82	J	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.5	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.3		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.3		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.5		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	7.6	J	6.6	20		1
10138	Chrysene	218-01-9	7.0		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1

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Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	6.6		0.74	1.8		1
10138	Fluorene	86-73-7	0.88	J	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.8		0.74	1.8		1
10138	Naphthalene	91-20-3	2.8		0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	4.9		0.74	1.8		1
10138	Pyrene	129-00-0	7.4		0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	6,000		660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.9		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	2.8		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	26		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	46		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,100		5.50	21.9		1
07914	Boron	7440-42-8	4.90	J	0.973	5.46		1
01650	Calcium	7440-70-2	9,750		6.70	21.9		1
01654	Iron	7439-89-6	27,500		5.15	21.9		1
01656	Lithium	7439-93-2	22.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,220		2.78	10.9		1
06958	Manganese	7439-96-5	339		0.0852	0.546		1
10145	Phosphorus	7723-14-0	363		0.612	10.9		1
01662	Potassium	7440-09-7	3,270		19.7	54.6		1
01667	Sodium	7440-23-5	448		40.8	109		1
07968	Strontium	7440-24-6	34.4		0.0678	0.546		1
06969	Tin	7440-31-5	2.66	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,260		0.415	1.09		1
10146	Zirconium	7440-67-7	3.63	J	0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.25		0.0866	0.433		2
06126	Barium	7440-39-3	96.5		0.117	0.433		2
06127	Beryllium	7440-41-7	0.476		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.172		0.0433	0.108		2
06131	Chromium	7440-47-3	16.6		0.130	0.433		2
06132	Cobalt	7440-48-4	5.25		0.0216	0.108		2
06133	Copper	7440-50-8	9.06		0.0714	0.433		2
06135	Lead	7439-92-1	7.06		0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.463		0.0541	0.108		2
06139	Nickel	7440-02-0	9.43		0.108	0.433		2
06141	Selenium	7782-49-2	0.0967	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0277	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.224		0.0325	0.108		2
06148	Vanadium	7440-62-2	33.4		0.0238	0.108		2
06149	Zinc	7440-66-6	59.5		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.22	1.1		1

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Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	278		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-034-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011	19:31	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011	15:54	Jason M Long	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011	18:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011	18:46	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011	18:42	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011	15:43	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011	03:19	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011	14:21	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011	17:10	JoElla L Rice	1

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Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 21:18	Marie D John	22.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:41	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 09:38	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 20:22	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 11:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	01/28/2011 20:51	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 02:41	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110240003A	01/26/2011 00:00	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 12:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110240003A	01/25/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:35	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2

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Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189226
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6512 SDG#: DE065-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:50	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:50	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:33	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:50	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:50	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201A	02/04/2011 04:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201A	02/04/2011 04:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201A	02/03/2011 22:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 17:33	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201A	02/01/2011 19:29	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201A	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201A	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201A	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.94
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.94
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.94
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.94
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.94
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.94
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.94
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.94
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.94
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.94
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.94
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.94
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.94
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.94
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.94
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.94
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.94
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.94
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.94
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.94
06192	Methylene Chloride	75-09-2	0.93	J	0.25	4.1		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.94

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Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.94
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.94
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		24.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	45.2		18.4	36.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1

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Sample Description: SL-019-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-019-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were

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Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.51	21.9		1
07914	Boron	7440-42-8	0.975	U	0.975	5.48		1
01650	Calcium	7440-70-2	1,530		6.71	21.9		1
01654	Iron	7439-89-6	16,200		5.16	21.9		1
01656	Lithium	7439-93-2	16.1		0.24	2.2		1
01657	Magnesium	7439-95-4	2,580		2.78	11.0		1
06958	Manganese	7439-96-5	161		0.0854	0.548		1
10145	Phosphorus	7723-14-0	286		0.613	11.0		1
01662	Potassium	7440-09-7	2,680		19.7	54.8		1
01667	Sodium	7440-23-5	214		40.9	110		1
07968	Strontium	7440-24-6	11.7		0.0679	0.548		1
06969	Tin	7440-31-5	2.54	J	1.10	11.0		1
06970	Titanium	7440-32-6	933		0.416	1.10		1
10146	Zirconium	7440-67-7	0.920	U	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0638	U	0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.31		0.0851	0.425		2
06126	Barium	7440-39-3	59.7		0.115	0.425		2
06127	Beryllium	7440-41-7	0.370		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0825	J	0.0425	0.106		2
06131	Chromium	7440-47-3	6.15		0.128	0.425		2
06132	Cobalt	7440-48-4	2.71		0.0213	0.106		2
06133	Copper	7440-50-8	2.85		0.0702	0.425		2
06135	Lead	7439-92-1	3.56		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.439		0.0532	0.106		2
06139	Nickel	7440-02-0	3.97		0.106	0.425		2
06141	Selenium	7782-49-2	0.142	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0259	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.212		0.0319	0.106		2
06148	Vanadium	7440-62-2	16.5		0.0234	0.106		2
06149	Zinc	7440-66-6	46.6		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.88	1.1		1

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Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.1		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.96		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-019-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 21:46	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 16:13	Jason M Long	24.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:51	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 19:08	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:51	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 15:59	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 03:54	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 14:53	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 21:54	Marie D John	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:50	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 10:21	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 20:32	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 11:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	01/28/2011 18:46	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 02:55	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 10:00	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 14:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1

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Sample Description: SL-019-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189227
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6513 SDG#: DE065-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:39	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:53	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:53	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:36	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:53	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:53	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201B	02/04/2011 04:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201B	02/04/2011 04:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11034621201B	02/09/2011 01:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 17:45	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201B	02/01/2011 19:30	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201B	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11034621201B	02/08/2011 12:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201B	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189228
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6514 SDG#: DE065-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.94
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.94
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.94
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.94
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.94
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.94
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.94
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.94
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.94
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.94
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.94
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.94
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.94
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.94
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.94
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.94
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.94
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.94
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.94
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.94
06192	Methylene Chloride	75-09-2	1.0	J	0.25	4.1		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.94

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Sample Description: SL-036-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189228
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6514 SDG#: DE065-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.94
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.94
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25.1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: **SL-036-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189228
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6514 SDG#: DE065-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.7		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	9.1		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.8		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.3		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	16		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	J	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189228
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6514 SDG#: DE065-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	53		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43		6.6	20		1
10138	Fluoranthene	206-44-0	2.2		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.76	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	16	J	6.6	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.74	1.8		1
10138	Pyrene	129-00-0	3.7		0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.7	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.46	21.7		1
07914	Boron	7440-42-8	2.89	J	0.965	5.42		1
01650	Calcium	7440-70-2	3,200		6.65	21.7		1
01654	Iron	7439-89-6	21,400		5.11	21.7		1
01656	Lithium	7439-93-2	24.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,330		2.75	10.8		1
06958	Manganese	7439-96-5	247		0.0846	0.542		1
10145	Phosphorus	7723-14-0	391		0.607	10.8		1
01662	Potassium	7440-09-7	3,450		19.5	54.2		1
01667	Sodium	7440-23-5	1,370		40.5	108		1
07968	Strontium	7440-24-6	17.7		0.0672	0.542		1
06969	Tin	7440-31-5	2.80	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,230		0.412	1.08		1
10146	Zirconium	7440-67-7	1.30	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.33		0.0885	0.442		2

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Sample Description: SL-036-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189228
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6514 SDG#: DE065-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	86.7	0.119	0.442		2
06127	Beryllium	7440-41-7	0.450	0.0177	0.111		2
06128	Cadmium	7440-43-9	0.142	0.0442	0.111		2
06131	Chromium	7440-47-3	13.6	0.133	0.442		2
06132	Cobalt	7440-48-4	5.17	0.0221	0.111		2
06133	Copper	7440-50-8	7.41	0.0730	0.442		2
06135	Lead	7439-92-1	5.69	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.447	0.0553	0.111		2
06139	Nickel	7440-02-0	8.50	0.111	0.442		2
06141	Selenium	7782-49-2	0.0879 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0396 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.244	0.0332	0.111		2
06148	Vanadium	7440-62-2	30.0	0.0243	0.111		2
06149	Zinc	7440-66-6	64.7	0.619	3.32		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0102 J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	416	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.33	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-036-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189228
LLI Group # 1230076
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Collected: 01/20/2011 15:04

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Suite 210
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E6514 SDG#: DE065-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 20:16	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 16:33	Jason M Long	25.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 19:09	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:54	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 04:28	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 15:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 12:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:43	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2

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Sample Description: **SL-036-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189228
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6514 SDG#: DE065-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:55	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:55	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:40	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:55	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:55	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201B	02/04/2011 05:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201B	02/04/2011 00:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243202A	02/08/2011 17:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201B	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201B	02/03/2011 13:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-037-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.98
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.98
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.98
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.98
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.98
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.98
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.98
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.98
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.98
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.98
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.98
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.98
06192	Methylene Chloride	75-09-2	1.1	J	0.26	4.4		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.98

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.98
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.98
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.98
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		25.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	46.6		18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.39	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.8		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.6		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.8		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.8	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.7	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	3.6		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49		6.7	20		1
10138	Fluoranthene	206-44-0	4.0		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.83	J	0.75	1.9		1
10138	Pyrene	129-00-0	4.1		0.75	1.9		1
The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.75
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-037-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.59	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	9.0	U	9.0	27		20
10199	EFH (C15-C20)	n.a.	9.0	U	9.0	27		20
10199	EFH (C21-C30)	n.a.	63		9.0	27		20
10199	EFH (C30 - C40)	n.a.	220		9.0	27		20
10199	EFH (C8-C11)	n.a.	9.0	U	9.0	27		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		5.47	21.8		1
07914	Boron	7440-42-8	3.28	J	0.969	5.44		1
01650	Calcium	7440-70-2	3,310		6.67	21.8		1
01654	Iron	7439-89-6	18,700		5.13	21.8		1
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	3,630		2.76	10.9		1
06958	Manganese	7439-96-5	238		0.0849	0.544		1
10145	Phosphorus	7723-14-0	291		0.610	10.9		1
01662	Potassium	7440-09-7	2,670		19.6	54.4		1
01667	Sodium	7440-23-5	966		40.6	109		1
07968	Strontium	7440-24-6	17.0		0.0675	0.544		1
06969	Tin	7440-31-5	2.51	J	1.09	10.9		1
06970	Titanium	7440-32-6	972		0.414	1.09		1
10146	Zirconium	7440-67-7	1.50	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0910	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.68		0.0862	0.431		2
06126	Barium	7440-39-3	77.1		0.116	0.431		2
06127	Beryllium	7440-41-7	0.382		0.0172	0.108		2
06128	Cadmium	7440-43-9	1.12		0.0431	0.108		2
06131	Chromium	7440-47-3	12.3		0.129	0.431		2
06132	Cobalt	7440-48-4	4.34		0.0216	0.108		2
06133	Copper	7440-50-8	7.38		0.0711	0.431		2
06135	Lead	7439-92-1	4.50		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.523		0.0539	0.108		2
06139	Nickel	7440-02-0	7.62		0.108	0.431		2
06141	Selenium	7782-49-2	0.0783	J	0.0431	0.431		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	0.0273 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.226	0.0323	0.108		2
06148	Vanadium	7440-62-2	26.3	0.0237	0.108		2
06149	Zinc	7440-66-6	62.7	0.604	3.23		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	366	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.75	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 20:38	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 16:53	Jason M Long	25.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:57	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 19:09	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 18:57	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 16:16	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 05:38	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 15:55	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 22:31	Marie D John	24.75
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 18:56	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 11:03	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 20:42	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 12:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 12:59	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 03:10	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 10:51	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/30/2011 02:50	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:54	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 02:57	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 02:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:43	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 02:57	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 02:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201B	02/04/2011 05:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201B	02/04/2011 05:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11034621201B	02/09/2011 02:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243202A	02/08/2011 18:04	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201B	02/01/2011 19:34	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201B	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11034621201B	02/08/2011 12:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201B	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1

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Sample Description: **SL-037-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189229
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6515 SDG#: DE065-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-029-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6516 SDG#: DE065-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.96
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.96
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.96
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.96
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.96
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.96
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.96
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.96
06192	Methylene Chloride	75-09-2	1.7	J	0.26	4.4		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.96

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Sample Description: SL-029-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6516 SDG#: DE065-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.96
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.96
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.87
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	75.6		19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-029-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6516 SDG#: DE065-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
3,3'-dichlorobenzidine

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.93	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1

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Sample Description: **SL-029-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6516 SDG#: DE065-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.9	21		1
10138	Chrysene	218-01-9	2.2		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.9	21		1
10138	Fluoranthene	206-44-0	5.3		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	4.4		0.76	1.9		1
10138	Pyrene	129-00-0	4.2		0.76	1.9		1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1

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Sample Description: SL-029-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6516 SDG#: DE065-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	1.3	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	U	0.92	2.7		2
10199	EFH (C15-C20)	n.a.	1.8	J	0.92	2.7		2
10199	EFH (C21-C30)	n.a.	26		0.92	2.7		2
10199	EFH (C30 - C40)	n.a.	69		0.92	2.7		2
10199	EFH (C8-C11)	n.a.	0.92	U	0.92	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1

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Sample Description: SL-029-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
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E6516 SDG#: DE065-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.70	22.7		1
07914	Boron	7440-42-8	8.15		1.01	5.67		1
01650	Calcium	7440-70-2	9,140		6.95	22.7		1
01654	Iron	7439-89-6	26,400		5.34	22.7		1
01656	Lithium	7439-93-2	20.5		0.25	2.3		1
01657	Magnesium	7439-95-4	4,410		2.88	11.3		1
06958	Manganese	7439-96-5	270		0.0885	0.567		1
10145	Phosphorus	7723-14-0	427		0.635	11.3		1
01662	Potassium	7440-09-7	2,930		20.4	56.7		1
01667	Sodium	7440-23-5	532		42.3	113		1
07968	Strontium	7440-24-6	31.7		0.0703	0.567		1
06969	Tin	7440-31-5	3.06	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,120		0.431	1.13		1
10146	Zirconium	7440-67-7	1.98	J	0.953	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0814	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.39		0.0907	0.454		2
06126	Barium	7440-39-3	85.1		0.122	0.454		2
06127	Beryllium	7440-41-7	0.475		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.166		0.0454	0.113		2
06131	Chromium	7440-47-3	14.8		0.136	0.454		2
06132	Cobalt	7440-48-4	4.75		0.0227	0.113		2
06133	Copper	7440-50-8	7.66		0.0749	0.454		2
06135	Lead	7439-92-1	5.39		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.377		0.0567	0.113		2
06139	Nickel	7440-02-0	8.76		0.113	0.454		2
06141	Selenium	7782-49-2	0.0706	J	0.0454	0.454		2

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Sample Description: SL-029-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

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14420 Albemarle Point Place
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E6516 SDG#: DE065-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	0.0368 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.231	0.0340	0.113		2
06148	Vanadium	7440-62-2	28.1	0.0250	0.113		2
06149	Zinc	7440-66-6	56.9	0.635	3.40		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.4	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30 J	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	378	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-029-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-029-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6516 SDG#: DE065-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 21:01	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 17:13	Jason M Long	20.87
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 19:09	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 19:00	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 16:32	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 06:12	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/01/2011 16:27	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 23:07	Marie D John	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:00	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 11:45	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 20:51	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 12:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	02/01/2011 13:24	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 03:25	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 11:09	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/30/2011 03:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-029-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6516 SDG#: DE065-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 22:58	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:52	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 03:05	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 03:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:52	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 03:05	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 03:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:52	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201B	02/04/2011 05:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201B	02/04/2011 05:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201B	02/04/2011 01:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 18:22	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201B	02/01/2011 19:35	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201B	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201B	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201B	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1

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Sample Description: **SL-029-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189230
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6516 SDG#: DE065-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-029-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6517 SDG#: DE065-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.6		6.5	7.8		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.87
06192	Methylene Chloride	75-09-2	3.3	J	0.23	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-029-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6517 SDG#: DE065-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		19.11
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	55.5		18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

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Sample Description: SL-029-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6517 SDG#: DE065-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 3,3'-dichlorobenzidine							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.7		0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	6.8		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	8.1		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	7.0		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	8.3		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.8		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.6		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	10		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Sample Description: **SL-029-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6517 SDG#: DE065-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	190		6.8	20		1
10138	Fluoranthene	206-44-0	26		0.75	1.9		1
10138	Fluorene	86-73-7	4.3		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.7		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.75	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	20		0.75	1.9		1
10138	Pyrene	129-00-0	18		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6517 SDG#: DE065-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	6,800		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.81	J	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.5	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	2.2		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	20		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	32		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	310	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were

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Sample Description: SL-029-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6517 SDG#: DE065-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.51	21.9		1
07914	Boron	7440-42-8	3.04	J	0.974	5.47		1
01650	Calcium	7440-70-2	7,400		6.71	21.9		1
01654	Iron	7439-89-6	20,800		5.16	21.9		1
01656	Lithium	7439-93-2	20.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,320		2.78	10.9		1
06958	Manganese	7439-96-5	277		0.0854	0.547		1
10145	Phosphorus	7723-14-0	421		0.613	10.9		1
01662	Potassium	7440-09-7	2,880		19.7	54.7		1
01667	Sodium	7440-23-5	406		40.8	109		1
07968	Strontium	7440-24-6	28.1		0.0679	0.547		1
06969	Tin	7440-31-5	2.69	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,080		0.416	1.09		1
10146	Zirconium	7440-67-7	2.48	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.158	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.16		0.0884	0.442		2
06126	Barium	7440-39-3	99.1		0.119	0.442		2
06127	Beryllium	7440-41-7	0.551		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.195		0.0442	0.111		2
06131	Chromium	7440-47-3	22.8		0.133	0.442		2
06132	Cobalt	7440-48-4	5.97		0.0221	0.111		2
06133	Copper	7440-50-8	10.5		0.0729	0.442		2
06135	Lead	7439-92-1	6.61		0.0115	0.221		2
06138	Molybdenum	7439-98-7	1.60		0.0553	0.111		2
06139	Nickel	7440-02-0	11.6		0.111	0.442		2
06141	Selenium	7782-49-2	0.0952	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0354	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.276		0.0332	0.111		2
06148	Vanadium	7440-62-2	39.0		0.0243	0.111		2
06149	Zinc	7440-66-6	58.9		0.619	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.90	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E6517 SDG#: DE065-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	278		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-029-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011 21:23	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110241AA	01/24/2011 17:32	Jason M Long	19.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:05	Christopher D Meeks	n.a.

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Sample Description: **SL-029-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
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E6517 SDG#: DE065-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102123562	01/21/2011 19:09	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102123562	01/21/2011 19:05	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11024SLD026	01/30/2011 16:49	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLD026	01/28/2011 06:47	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLB026	02/02/2011 00:27	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11024SLD026	01/24/2011 17:10	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLB026	01/25/2011 16:35	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLD026	01/26/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/25/2011 23:43	Marie D John	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102123562	01/21/2011 19:02	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110220005A	01/28/2011 12:28	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110240009A	01/27/2011 21:01	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110250005A	02/03/2011 13:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110250005A	01/25/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110240009A	01/26/2011 09:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110220005A	01/24/2011 04:50	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110250021A	01/28/2011 21:16	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250022A	01/26/2011 03:39	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 11:26	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 18:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110250021A	01/26/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250022A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-029-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189231
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6517 SDG#: DE065-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110255708002	01/28/2011 23:02	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06125	Arsenic	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06126	Barium	SW-846 6020	1	110251026001D	02/02/2011 01:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06131	Chromium	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06133	Copper	SW-846 6020	1	110251026001A	02/03/2011 03:07	David K Beck	2
06135	Lead	SW-846 6020	1	110251026001A	02/03/2011 03:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110251026001C	02/02/2011 01:55	David K Beck	2
06139	Nickel	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06141	Selenium	SW-846 6020	1	110251026001B	02/03/2011 03:07	David K Beck	2
06142	Silver	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06145	Thallium	SW-846 6020	1	110251026001A	02/03/2011 03:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
06149	Zinc	SW-846 6020	1	110251026001A	02/02/2011 01:55	David K Beck	2
00159	Mercury	SW-846 7471A	1	110255711002	01/26/2011 09:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110255708002	01/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110251026001	01/25/2011 22:10	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110255711002	01/25/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033201B	02/04/2011 06:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033201B	02/04/2011 06:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621201B	02/04/2011 01:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243202A	02/08/2011 18:28	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11032102201B	02/01/2011 19:36	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033201B	02/02/2011 20:25	Venia B McFadden	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621201B	02/03/2011 13:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11032102201B	02/01/2011 16:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-012011 Water
SSFL Area IV Collocated Soil Sampling
TB-012011

LLI Sample # WW 6189232
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 08:00

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6518 SDG#: DE065-18TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-012011 Water**
SSFL Area IV Collocated Soil Sampling
TB-012011

LLI Sample # WW 6189232
LLI Group # 1230076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 08:00

Submitted: 01/21/2011 10:00
Reported: 02/10/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6518 SDG#: DE065-18TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110241AA	01/24/2011	14:12	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110251AA	01/25/2011	09:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110241AA	01/24/2011	14:12	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110251AA	01/25/2011	09:41	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11024D20A	01/25/2011	13:13	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11024D20A	01/25/2011	13:13	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110251AA	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231									
Acetone	6.7	U	6.7	8.0	ug/kg	157		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	103		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	91		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	103		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	71		32-162		
2-Butanone	5.1	J	1.2	8.0	ug/kg	110		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	87		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	85		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	82		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	110		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	69		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	82		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	104		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	69		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	152*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	79		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	94		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	91		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	98		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	106		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	110		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	93		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	90		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	106		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	84		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	81		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	92		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	99		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	92		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	70		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	91		76-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	87		75-120		
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	64		61-134		
Methylene Chloride	2.0	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	89		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	96		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	84		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	112		77-120		
Toluene	0.29	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	88		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	79		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	108		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	90		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	89		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	88		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	71		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	88		80-120		
Batch number: E110241AA	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	103	70-130	5	30
Batch number: E110251AA	Sample number(s): 6189232									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	109	60-132	6	30
Batch number: Y110241AA	Sample number(s): 6189232									
Acetone	6	U	6.	20	ug/l	115	113	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	98	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	99	98	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	106	102	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	110	110	80-120	0	30
Bromoform	1	U	1.	5	ug/l	100	96	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	113	115	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	101	97	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	96	93	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	101	97	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	111	111	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	94	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	116	117	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	102	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	111	110	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	121	126	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	100	96	80-120	4	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	95	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	98	97	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	109	104	66-120	5	30
Dibromochloromethane	1	U	1.	5	ug/l	103	98	80-120	6	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	96	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	108	104	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	91	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	93	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	93	80-120	3	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dichlorodifluoromethane	2	U	2.	5	ug/l	107	107	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	103	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	122	121	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	106	104	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	100	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	98	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	98	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	114	111	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	101	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	103	101	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	94	79-120	5	30
Freon 113	2	U	2.	10	ug/l	102	102	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	93	94	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	88	87	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	101	95	65-136	6	30
Isopropylbenzene	1	U	1.	5	ug/l	98	93	77-120	6	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	97	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	109	105	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	101	98	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	112	108	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	101	98	80-120	4	30
Styrene	1	U	1.	5	ug/l	96	94	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	100	97	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	97	96	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	97	93	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	97	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	94	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	96	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	98	95	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	102	100	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	113	112	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	109	102	80-120	7	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	98	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	98	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	97	97	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	93	80-120	4	30
o-Xylene	0.8	U	0.8	5	ug/l	96	92	80-120	4	30
Batch number: 11024SLD026	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11025SLB026	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	87		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	91		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	89		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	97		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	104		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	92		73-114		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	97		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	107		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	103		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	93		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	91		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 11025SLD026	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231									
Acenaphthene	17	U	17.	170	ug/kg	92		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	96		75-122		
Aniline	170 U		170.	500	ug/kg	51		10-107		
Anthracene	17	U	17.	170	ug/kg	93		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	54		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	90		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	82		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	83		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	88		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	81		67-125		
Benzoic acid	170 U		170.	500	ug/kg	77		10-154		
Benzyl alcohol	170 U		170.	500	ug/kg	79		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	90		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	88		79-112		
Carbazole	17	U	17.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	85		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	38		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	84		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	82		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	87		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	90		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	92		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	36*		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	87		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	90		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	90		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	92		77-109		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	75		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	66		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	89		75-117		
Fluoranthene	17	U	17.	170	ug/kg	92		78-116		
Fluorene	17	U	17.	170	ug/kg	91		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	90		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	94		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	88		64-119		
Isophorone	17	U	17.	170	ug/kg	87		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	89		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	84		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	81		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	90		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	92		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	81		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	83		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	93		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	76		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	69		35-106		
Phenanthrene	17	U	17.	170	ug/kg	91		77-113		
Phenol	17	U	17.	170	ug/kg	88		58-112		
Pyrene	17	U	17.	170	ug/kg	94		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11025WAE026	Sample number(s): 6189219,6189222									
Aniline	1	U	1.	5	ug/l	69	70	49-101	2	30
Benzidine	20	U	20.	60	ug/l	61	61	20-109	1	30
Benzoic acid	6	U	6.	15	ug/l	37	41	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	78	81	66-97	4	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	88	90	82-117	2	30
Carbazole	1	U	1.	5	ug/l	94	93	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	93	90	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	50	51	42-124	3	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	90	74-124	2	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	91	92	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	91	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	97	97	54-132	0	30
2-Chlorophenol	1	U	1.	5	ug/l	92	92	77-108	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	93	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	93	94	83-108	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	1	U	1.	5	ug/l	83	85	67-108	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	82	84	63-110	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	83	85	65-113	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	67	62	49-111	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	93	94	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	94	91	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	103	102	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	87	88	78-119	1	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	86	84	64-120	2	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	95	94	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	92	95	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	97	78-116	1	30
Hexachlorobenzene	1	U	1.	5	ug/l	91	93	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	85	82	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	61	65	10-118	5	30
Hexachloroethane	1	U	1.	5	ug/l	79	82	52-113	4	30
Isophorone	1	U	1.	5	ug/l	93	92	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	85	87	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	71	72	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	94	93	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	94	94	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	81	78	59-100	4	30
Nitrobenzene	1	U	1.	5	ug/l	91	91	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	93	93	86-120	0	30
4-Nitrophenol	10	U	10.	30	ug/l	37	38	16-78	4	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	94	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	91	91	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	76	75	53-110	1	30
Phenol	1	U	1.	5	ug/l	40	43	29-67	7	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	85	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	94	94	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	95	93	81-113	2	30
Batch number: 11024A34A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	70	77	67-119	10	30
Batch number: 11024D20A	Sample number(s): 6189232									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	127	127	75-135	0	30
Batch number: 110220005A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	102		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	106	103	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	105	102	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	101		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100 U		100.	300	ug/kg	94		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	100		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	100		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	101		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PETN	800 U		800.	2,400	ug/kg	108		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	101		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	102		80-120		
Batch number: 110240009A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	90		80-126		
Batch number: 110310001A	Sample number(s): 6189220									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110250001A	Sample number(s): 6189219,6189222									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	50*	52*	75-125	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	100	68-119	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	110	116	68-121	5	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110250005A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	81	79	75-125	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	76		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	92		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110250021A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		66-113		
Batch number: 110240003A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189226									
Diethylene glycol	5.0	U	5.0	13	mg/kg	113		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110250022A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231								
Ethanol	100 U	100.	500	ug/kg	96		75-112		
Isopropanol	100 U	100.	500	ug/kg	96		75-125		
Methanol	100 U	100.	500	ug/kg	93		75-134		
Batch number: 110310023A	Sample number(s): 6189227,6189229-6189231								
Diethylene glycol	5.0 U	5.0	13	mg/kg	90		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	89		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	96		75-125		
Batch number: 110250013A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	97		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	97		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	84		75-125		
Batch number: 110241848013	Sample number(s): 6189219,6189222								
Aluminum	0.0834 U	0.0834	0.200	mg/l	99	99	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	101	101	90-110	1	20
Calcium	0.0702 U	0.0702	0.200	mg/l	100	98	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	101	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	100	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	102	102	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	98	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	103	102	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	99	97	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	99	99	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	105	104	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	97	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	97	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	100	99	80-120	2	20
Batch number: 110246050006A	Sample number(s): 6189219,6189222								
Antimony	0.00030 U	0.00030	0.0010	mg/l	108	110	87-110	2	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	102	104	86-111	2	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	106	104	90-112	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	97	107	90-114	10	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	105	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	106	105	80-120	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	108	107	90-113	1	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	103	100	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	105	90-113	0	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	104	90-115	4	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	103	89-116	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	105	102	80-120	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	103	104	80-120	0	20
Batch number: 110246050006B	Sample number(s): 6189219,6189222								
Selenium	0.00025 U	0.00025	0.0020	mg/l	105	101	85-114	4	20
Batch number: 110246050006C	Sample number(s): 6189219,6189222								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	103	80-120	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110246050006D	Sample number(s): 6189219,6189222								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	109	88-113	4	20
Batch number: 110251026001A	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231								
Antimony	0.0600 U	0.0600	0.200	mg/kg	114		11-208		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	100		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	98		82-118		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	97		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	106		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	111		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	108		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	102		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	111		80-120		
Zinc	0.560 U	0.560	3.00	mg/kg	99		78-122		
Batch number: 110251026001B	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231								
Selenium	0.0400 U	0.0400	0.400	mg/kg	104		79-122		
Batch number: 110251026001C	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	104		78-122		
Batch number: 110251026001D	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231								
Barium	0.108 U	0.108	0.400	mg/kg	106		79-121		
Batch number: 110255708002	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231								
Aluminum	5.03 U	5.03	20.0	mg/kg	90		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	96		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	94		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	99		81-119		
Phosphorus	0.951 J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3 U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	98		79-121		
Tin	1.32 J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	97		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110255711002	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231								
Mercury	0.0028 U	0.0028	0.0984	mg/kg	99		88-123		
Batch number: 110265713008	Sample number(s): 6189219,6189222								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	102	108	80-120	6	20
Batch number: 11021196401A	Sample number(s): 6189219,6189222								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	107	106	90-110	0	20
Batch number: 11026196602A	Sample number(s): 6189219,6189222								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	106	105	90-110	1	20
Batch number: 11032102201A	Sample number(s): 6189212-6189214,6189216-6189218,6189220-6189221,6189223-								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	6189226									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	90		80-120		
Batch number: 11032102201B	Sample number(s): 6189227,6189229-6189231									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	90		80-120		
Batch number: 11033033201A	Sample number(s): 6189212-6189214,6189216-6189218,6189220-6189221,6189223-6189226									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11033033201B	Sample number(s): 6189227-6189231									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11034243202A	Sample number(s): 6189212-6189214,6189216-6189218,6189220-6189221,6189223-6189231									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11034621201A	Sample number(s): 6189212-6189214,6189216-6189218,6189220-6189221,6189223-6189226									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11034621201B	Sample number(s): 6189227-6189231									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11034621701A	Sample number(s): 6189219,6189222									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	92	94	85-115	2	20
Batch number: 11026039401A	Sample number(s): 6189212-6189213,6189216-6189218,6189220-6189221,6189223-6189225									
22a pH by 9045C						100		95-105		
Batch number: 11026039401B	Sample number(s): 6189226-6189231									
22a pH by 9045C						100		95-105		
Batch number: 11026182101A	Sample number(s): 6189212-6189213,6189216-6189218,6189220-6189221,6189223-6189225									
32a OR Potential						99		98-102		
Batch number: 11026182101B	Sample number(s): 6189226-6189231									
32a OR Potential						99		98-102		
Batch number: 11027162401A	Sample number(s): 6189228									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11034162401A	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189227,6189229-6189231									
28a Moisture Content by 160.3						99		80-120		
28a Moisture Content by 160.3						99		80-120		
28a Moisture Content by 160.3						99		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM
Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110251AA	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213								
Acetone	152	156	15-210	16	30				
Benzene	101	107	55-143	20	30				
Bromobenzene	92	100	43-139	22	30				
Bromochloromethane	109	113	60-137	17	30				
Bromodichloromethane	96	100	53-136	18	30				
Bromoform	103	104	38-124	14	30				
Bromomethane	70	75	42-168	20	30				
2-Butanone	101	105	37-163	17	30				
n-Butylbenzene	81	89	30-146	24	30				
sec-Butylbenzene	83	94	33-157	25	30				
tert-Butylbenzene	83	92	41-152	24	30				
Carbon Tetrachloride	112	117	45-153	18	30				
Chlorobenzene	100	106	49-135	19	30				
Chloroethane	68	74	39-152	22	30				
2-Chloroethyl Vinyl Ether	76	79	32-139	18	30				
Chloroform	103	108	61-142	19	30				
Chloromethane	67	75	51-163	24	30				
2-Chlorotoluene	89	99	42-146	23	30				
4-Chlorotoluene	88	98	39-145	24	30				
Chlorotrifluoroethene	146*	148*	70-130	5	30				
1,2-Dibromo-3-chloropropane	70	73	30-139	18	30				
Dibromochloromethane	104	106	51-128	15	30				
1,2-Dibromoethane	97	100	54-129	17	30				
Dibromomethane	99	103	57-130	17	30				
1,2-Dichlorobenzene	91	97	36-133	21	30				
1,3-Dichlorobenzene	89	97	34-134	23	30				
1,4-Dichlorobenzene	90	97	35-136	21	30				
Dichlorodifluoromethane	69	72	26-151	19	30				
1,1-Dichloroethane	98	104	63-142	19	30				
1,2-Dichloroethane	99	103	68-131	17	30				
1,1-Dichloroethene	110	115	61-149	19	30				
cis-1,2-Dichloroethene	104	110	60-136	19	30				
trans-1,2-Dichloroethene	111	117	59-142	19	30				
1,2-Dichloropropane	91	97	62-135	20	30				
1,3-Dichloropropane	90	95	58-129	18	30				
2,2-Dichloropropane	106	112	53-147	19	30				
1,1-Dichloropropene	97	104	54-145	20	30				
cis-1,3-Dichloropropene	82	88	51-131	21	30				
trans-1,3-Dichloropropene	81	87	49-129	21	30				
Ethylbenzene	92	100	44-141	22	30				
Freon 113	112	118	56-156	19	30				
Freon 133a	98	102	70-130	3	30				
Hexachlorobutadiene	73	79	10-155	22	30				
2-Hexanone	67	72	32-160	20	30				
Isopropylbenzene	91	97	38-144	21	30				
p-Isopropyltoluene	84	94	29-152	25	30				
Methyl Tertiary Butyl Ether	90	97	55-129	21	30				
4-Methyl-2-pentanone	57	61	46-139	20	30				
Methylene Chloride	93	98	61-141	17	30				
n-Propylbenzene	89	98	39-157	24	30				
Styrene	97	103	35-134	20	30				
1,1,1,2-Tetrachloroethane	106	110	52-130	17	30				

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Quality Control Summary

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Reported: 02/10/11 at 01:06 PM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2,2-Tetrachloroethane	82	86	40-152	19	30				
Tetrachloroethene	117	125	42-149	20	30				
Toluene	100	107	50-146	20	30				
1,2,3-Trichlorobenzene	73	73	10-140	14	30				
1,2,4-Trichlorobenzene	66	70	10-136	20	30				
1,1,1-Trichloroethane	109	114	64-142	18	30				
1,1,2-Trichloroethane	99	103	54-139	18	30				
Trichloroethene	101	107	53-144	20	30				
Trichlorofluoromethane	93	94	47-163	15	30				
1,2,3-Trichloropropane	88	92	45-154	18	30				
1,2,4-Trimethylbenzene	88	97	37-149	23	30				
1,3,5-Trimethylbenzene	88	97	38-150	23	30				
Vinyl Chloride	73	80	50-154	23	30				
m+p-Xylene	100	107	44-137	20	30				
o-Xylene	89	95	42-137	20	30				
Batch number: E110241AA	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213								
1,4-Dioxane	81	97	70-130	19	30				
Batch number: E110251AA	Sample number(s): 6189232 UNSPK: P189813								
1,4-Dioxane	99		50-150						
Batch number: 11024SLD026	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231 UNSPK: 6189213								
N-Nitrosodimethylamine	81	84	70-130	3	30				
Batch number: 11025SLB026	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213								
Acenaphthene	96	90	63-105	7	30				
Acenaphthylene	94	89	67-114	5	30				
Anthracene	95	95	60-122	0	30				
Benzo(a)anthracene	99	93	59-128	6	30				
Benzo(a)pyrene	96	91	45-138	5	30				
Benzo(b)fluoranthene	106	102	43-155	3	30				
Benzo(g,h,i)perylene	78	69	33-141	12	30				
Benzo(k)fluoranthene	88	83	42-144	6	30				
Butylbenzylphthalate	103	109	57-173	6	30				
Di-n-butylphthalate	122	123	65-148	1	30				
Chrysene	94	88	48-134	7	30				
Dibenz(a,h)anthracene	87	79	22-133	10	30				
Diethylphthalate	111	107	70-136	4	30				
Dimethylphthalate	102	97	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	147	140	39-167	5	30				
Fluoranthene	102	92	26-166	9	30				
Fluorene	99	95	66-122	4	30				
Indeno(1,2,3-cd)pyrene	83	75	21-143	10	30				
1-Methylnaphthalene	92	85	72-123	8	30				
2-Methylnaphthalene	83	77	64-103	7	30				
Naphthalene	88	81	61-102	9	30				
N-Nitrosodimethylamine	88	83	48-113	5	30				
Di-n-octylphthalate	112	112	40-192	0	30				
Phenanthrene	92	88	12-165	4	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Pyrene	86	75	15-153	12	30				
Batch number: 11025SLD026	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213								
Acenaphthene	93	93	75-115	0	30				
Acenaphthylene	96	97	49-126	1	30				
Aniline	55	54	14-114	3	30				
Anthracene	94	93	75-115	1	30				
Benzidine	53	53	35-141	1	30				
Benzo(a)anthracene	96	94	65-122	3	30				
Benzo(a)pyrene	83	84	57-126	1	30				
Benzo(b)fluoranthene	85	85	59-125	0	30				
Benzo(g,h,i)perylene	82	80	59-127	3	30				
Benzo(k)fluoranthene	84	86	56-132	2	30				
Benzoic acid	52	51	10-173	3	30				
Benzyl alcohol	83	81	55-123	3	30				
4-Bromophenyl-phenylether	93	93	67-129	0	30				
Butylbenzylphthalate	111	108	73-134	3	30				
Di-n-butylphthalate	91	93	67-123	2	30				
Carbazole	92	95	64-120	3	30				
4-Chloro-3-methylphenol	86	89	53-130	4	30				
4-Chloroaniline	46	48	23-95	4	30				
bis(2-Chloroethoxy)methane	94	96	54-117	1	30				
bis(2-Chloroethyl)ether	83	84	60-116	0	30				
bis(2-Chloroisopropyl)ether	88	84	55-142	4	30				
2-Chloronaphthalene	79	87	50-141	9	30				
2-Chlorophenol	88	87	73-121	1	30				
4-Chlorophenyl-phenylether	95	93	64-119	3	30				
Chrysene	96	94	62-128	2	30				
Dibenz(a,h)anthracene	83	82	65-125	1	30				
Dibenzofuran	92	92	71-112	0	30				
1,2-Dichlorobenzene	87	86	66-108	2	30				
1,3-Dichlorobenzene	85	83	63-109	3	30				
1,4-Dichlorobenzene	84	86	53-113	2	30				
3,3'-Dichlorobenzidine	58	62	25-123	7	30				
2,4-Dichlorophenol	92	92	78-117	0	30				
Diethylphthalate	91	90	66-118	1	30				
2,4-Dimethylphenol	93	94	56-130	1	30				
3,5-Dimethylphenol	106	104	70-130	2	30				
Dimethylphthalate	92	91	64-118	0	30				
4,6-Dinitro-2-methylphenol	63	62	10-148	2	30				
2,4-Dinitrophenol	47	42	20-143	9	30				
2,4-Dinitrotoluene	93	91	57-114	2	30				
2,6-Dinitrotoluene	94	94	69-123	0	30				
1,2-Diphenylhydrazine	105	106	71-129	0	30				
bis(2-Ethylhexyl)phthalate	102	100	63-122	2	30				
Fluoranthene	89	93	59-122	4	30				
Fluorene	92	91	60-125	2	30				
Hexachlorobenzene	93	96	61-111	3	30				
Hexachlorobutadiene	97	102	62-120	5	30				
Hexachlorocyclopentadiene	61	64	10-153	5	30				
Hexachloroethane	88	91	57-109	3	30				
Indeno(1,2,3-cd)pyrene	82	81	61-126	0	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	89	90	51-118	1	30				
1-Methylnaphthalene	90	92	73-112	2	30				
2-Methylnaphthalene	83	86	76-114	2	30				
2-Methylphenol	89	85	47-142	4	30				
4-Methylphenol	87	82	55-126	6	30				
Naphthalene	86	88	72-116	3	30				
2-Nitroaniline	97	95	67-125	3	30				
3-Nitroaniline	88	88	59-122	0	30				
4-Nitroaniline	73	73	52-112	1	30				
Nitrobenzene	96	97	51-114	1	30				
2-Nitrophenol	93	92	74-115	1	30				
4-Nitrophenol	95	96	39-133	1	30				
N-Nitroso-di-n-propylamine	84	84	60-116	1	30				
N-Nitrosodimethylamine	73	73	47-116	0	30				
N-Nitrosodiphenylamine	96	95	86-145	0	30				
Di-n-octylphthalate	97	96	56-126	1	30				
Pentachlorophenol	67	63	17-149	6	30				
Phenanthrene	92	93	65-125	1	30				
Phenol	89	87	58-126	3	30				
Pyrene	112	107	51-151	5	30				
1,2,4-Trichlorobenzene	92	94	72-115	2	30				
2,4,5-Trichlorophenol	99	96	34-139	3	30				
2,4,6-Trichlorophenol	99	96	49-140	3	30				
Batch number: 11024A34A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231 UNSPK: 6189213								
9a TPH by EPA 8015B Gas C5-C12	65	69	39-118	0	30				
Batch number: 110220005A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231 UNSPK: 6189213								
4-Amino-2,6-Dinitrotoluene	103	102	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	104	102	80-137	1	50				
1,3-Dinitrobenzene	101	100	38-166	1	50				
2,4-Dinitrotoluene	100	99	80-131	1	50				
2,6-Dinitrotoluene	103	102	80-127	1	50				
HMX	94	93	63-128	0	50				
Nitrobenzene	98	97	80-125	1	50				
Nitroglycerin	93	92	80-120	1	50				
2-Nitrotoluene	101	99	80-122	1	50				
3-Nitrotoluene	101	99	72-119	2	50				
4-Nitrotoluene	99	97	80-125	1	50				
PETN	108	108	80-121	1	50				
RDX	102	100	75-129	2	50				
Tetryl	98	98	55-174	1	50				
1,3,5-Trinitrobenzene	106	105	82-126	1	50				
2,4,6-Trinitrotoluene	101	100	82-130	0	50				
Batch number: 110240009A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231 UNSPK: 6189213								
17a Formaldehyde by 8315A	85	85	80-120	1	50				
Batch number: 110310001A	Sample number(s): 6189220 UNSPK: 6189220								
6a Perchlorate EPA 6850	104	100	80-120	4	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110250005A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213								
PCB-1016	78	81	29-146	4	50				
PCB-1260	91	94	39-149	3	50				
Batch number: 110250021A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231 UNSPK: 6189213								
EFH (C12-C14)	115	106	49-123	9	20				
EFH (C15-C20)	298*	148*	49-123	49*	20				
EFH (C21-C30)	544 (2)	168 (2)	49-123	29*	20				
EFH (C30 - C40)	88 (2)	8 (2)	49-123	4	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 110240003A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189226 UNSPK: 6189213								
Diethylene glycol	81	73	59-109	11	20				
Ethylene glycol	78	87	63-107	11	20				
Propylene glycol	77	87	63-107	13	20				
Batch number: 110250022A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231 UNSPK: 6189213								
Ethanol	78	84	24-143	7	20				
Isopropanol	79	86	75-125	7	20				
Methanol	73	79	45-136	7	20				
Batch number: 110310023A	Sample number(s): 6189227,6189229-6189231 UNSPK: 6189227								
Diethylene glycol	82	82	59-109	1	20				
Ethylene glycol	86	87	63-107	1	20				
Propylene glycol	89	88	63-107	1	20				
Batch number: 110250013A	Sample number(s): 6189212-6189215,6189217-6189218,6189220-6189221,6189223-6189227,6189229-6189231 UNSPK: 6189213								
m-Terphenyl	90	89	75-125	1	20				
o-Terphenyl	102	96	75-125	6	20				
p-Terphenyl	81	77	75-125	6	20				
Batch number: 110251026001A	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213 BKG: 6189213								
Antimony	42*	44*	75-125	2	20	0.236	0.173 J	30* (1)	20
Arsenic	157*	172*	75-125	3	20	4.60	5.66	21*	20
Beryllium	85	85	75-125	1	20	0.573	0.630	10	20
Cadmium	98	98	75-125	1	20	0.223	0.185	19 (1)	20
Chromium	107	107	75-125	1	20	22.4	24.3	8	20
Cobalt	86	90	75-125	3	20	6.10	6.57	7	20
Copper	100	99	75-125	2	20	10.7	11.5	7	20
Lead	129*	120	75-125	3	20	7.02	7.75	10	20
Nickel	93	105	75-125	4	20	12.4	13.5	9	20
Silver	97	103	75-125	3	20	0.0310 J	0.0374 J	19 (1)	20
Thallium	105	100	75-125	4	20	0.259	0.269	4 (1)	20
Vanadium	129 (2)	129 (2)	75-125	1	20	40.1	42.0	5	20
Zinc	70 (2)	150 (2)	75-125	12	20	55.2	53.4	3	20

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Batch number: 110251026001B	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213 BKG: 6189213								
Selenium	76	78	75-125	0	20	0.107 J	0.0639 J	50* (1)	20
Batch number: 110251026001C	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213 BKG: 6189213								
Molybdenum	91	100	75-125	8	20	0.561	0.521	7	20
Batch number: 110251026001D	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213 BKG: 6189213								
Barium	163 (2)	129 (2)	75-125	4	20	72.5	132	58*	20
Batch number: 110255708002	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213 BKG: 6189213								
Aluminum	3458 (2)	3464 (2)	75-125	1	20	19,000	20,100	6	20
Boron	99	97	84-115	0	20	5.51	5.56	1 (1)	20
Calcium	1226 (2)	1067 (2)	75-125	4	20	7,930	9,710	20	20
Iron	2209 (2)	2614 (2)	75-125	2	20	23,000	25,100	9	20
Lithium	104	101	82-114	0	20	21.4	21.1	1	20
Magnesium	451 (2)	389 (2)	75-125	2	20	5,130	5,150	0	20
Manganese	163 (2)	173 (2)	75-125	2	20	265	309	15	20
Phosphorus	99	103	75-125	1	20	348	332	5	20
Potassium	124	139*	75-125	4	20	3,690	3,660	1	20
Sodium	105	100	75-125	2	20	447	460	3 (1)	20
Strontium	101	101	75-115	1	20	26.3	27.7	5	20
Tin	91	89	80-110	0	20	2.33 J	2.48 J	6 (1)	20
Titanium	384 (2)	394 (2)	75-125	1	20	1,100	1,150	5	20
Zirconium	96	94	75-125	0	20	3.19 J	4.19 J	27* (1)	20
Batch number: 110255711002	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189231 UNSPK: 6189213 BKG: 6189213								
Mercury	125	99	65-135	24*	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11032102201A	Sample number(s): 6189212-6189214,6189216-6189218,6189220-6189221,6189223-6189226 UNSPK: 6189213 BKG: 6189213								
21a Cyanide by 9012B	93		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11032102201B	Sample number(s): 6189227,6189229-6189231 UNSPK: 6189227 BKG: 6189227								
21a Cyanide by 9012B	89		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11033033201A	Sample number(s): 6189212-6189214,6189216-6189218,6189220-6189221,6189223-6189226 UNSPK: 6189213 BKG: 6189213								
11a Anions by 300.0 - Fluoride	83		80-120			3.6	3.7	5 (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			6.5	7.4	13 (1)	20
Batch number: 11033033201B	Sample number(s): 6189227-6189231 UNSPK: 6189227 BKG: 6189227								
11a Anions by 300.0 - Fluoride	66*		80-120			1.7	1.7	2 (1)	20
11a Anions by 300.0 - Nitrate	93		80-120			3.7	4.1	10 (1)	20
Batch number: 11034243202A	Sample number(s): 6189212-6189214,6189216-6189218,6189220-6189221,6189223-								

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	6189231 UNSPK: 6189213 BKG: 6189213										
3a Cr VI by EPA 7199	101		75-125			0.35	J	0.59	J	52* (1)	20
Batch number: 11034621201A	Sample number(s): 6189212-6189214,6189216-6189218,6189220-6189221,6189223-6189226 UNSPK: 6189213 BKG: 6189213										
7a Perchlorate EPA 314.0	106		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11034621201B	Sample number(s): 6189227-6189231 UNSPK: 6189227 BKG: 6189227										
7a Perchlorate EPA 314.0	94		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11026039401A	Sample number(s): 6189212-6189213,6189216-6189218,6189220-6189221,6189223-6189225 BKG: 6189213										
22a pH by 9045C						8.53		8.53		0	1
Batch number: 11026039401B	Sample number(s): 6189226-6189231 BKG: P189703										
22a pH by 9045C						7.84		7.85		0	1
Batch number: 11026182101A	Sample number(s): 6189212-6189213,6189216-6189218,6189220-6189221,6189223-6189225 BKG: 6189213										
32a OR Potential						348		348		0	6
Batch number: 11026182101B	Sample number(s): 6189226-6189231 BKG: 6189226										
32a OR Potential						278		278		0	6
Batch number: 11027162401A	Sample number(s): 6189228 BKG: P189705										
28a Moisture Content by 160.3						13.5		14.1		4	20
Batch number: 11034162401A	Sample number(s): 6189212-6189218,6189220-6189221,6189223-6189227,6189229-6189231 BKG: 6189213										
28a Moisture Content by 160.3						10.9		10.9		0	20
28a Moisture Content by 160.3						10.9		10.9		0	20
28a Moisture Content by 160.3						10.9		10.9		0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6189212	115	104	92	83
6189213	115	111	93	83
6189214	105	105	100	101
6189215	103	105	101	98
6189217	116	113	93	83
6189218	114	112	93	82
6189220	116	114	93	83
6189221	115	115	93	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Surrogate Quality Control

6189223	116	111	95	80
6189224	114	107	94	80
6189225	115	110	93	80
6189226	114	113	94	83
6189227	118	112	93	84
6189228	119	112	94	81
6189229	116	108	94	82
6189230	116	108	93	80
6189231	115	112	92	83
Blank	114	110	91	85
LCS	106	104	98	102
MS	105	105	100	101
MSD	103	105	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110241AA

	Toluene-d8
6189212	98
6189213	98
6189214	98
6189215	98
6189217	98
6189218	98
6189220	97
6189221	98
6189223	98
6189224	98
6189225	98
6189226	97
6189227	98
6189228	97
6189229	97
6189230	98
6189231	98
Blank	98
LCS	99
LCSD	98
MS	98
MSD	98
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110251AA

	Toluene-d8
6189232	95
Blank	96
LCS	96
LCSD	95
MS	95
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Surrogate Quality Control

Batch number: Y110241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6189232	108	102	97	100
Blank	104	102	99	101
LCS	106	104	98	103
LCSD	106	100	96	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C
Batch number: 11024SLD026

	N-Nitrosodimethylamine-d6
6189212	77
6189213	102
6189214	79
6189215	74
6189217	85
6189218	68
6189220	89
6189221	119
6189223	83
6189224	368*
6189225	115
6189226	146
6189227	70
6189229	79
6189230	120
6189231	87
Blank	77
LCS	83
MS	79
MSD	74
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11025SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6189212	113	86	71
6189213	103	81	85
6189214	109	81	79
6189215	113	83	80
6189217	112	84	84
6189218	105	79	86
6189220	112	81	80
6189221	114	85	76
6189223	112	82	74
6189224	112	84	68
6189225	107	83	76
6189226	105	82	78
6189227	107	78	95
6189228	108	76	64
6189229	113	80	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Surrogate Quality Control

6189230	106	77	93
6189231	103	81	70
Blank	97	84	97
LCS	104	81	88
MS	109	81	79
MSD	113	83	80
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11025SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6189212	86	87	79	83	97	91
6189213	85	84	91	77	89	94
6189214	87	86	103	85	94	100
6189215	85	84	99	87	93	96
6189217	81	82	98	83	90	90
6189218	85	88	94	87	96	96
6189220	85	85	95	78	80	89
6189221	90	82	91	84	90	97
6189223	87	84	90	77	88	102
6189224	94	91	101	84	93	95
6189225	95	92	106	83	96	103
6189226	88	86	91	82	91	99
6189227	90	89	95	81	90	90
6189228	90	90	90	82	95	100
6189229	89	85	96	83	92	106
6189230	95	89	103	86	96	108
6189231	89	85	96	84	93	100
Blank	82	86	89	79	93	87
LCS	87	89	98	87	94	86
MS	87	86	103	85	94	100
MSD	85	84	99	87	93	96
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11025WAE026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6189219	49	32	91	83	86	86
6189222	48	33	85	78	82	76
Blank	51	33	94	85	88	82
LCS	59	39	91	89	90	83
LCSD	62	42	91	86	90	83
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11024A34A

	Trifluorotoluene-F
6189212	76
6189213	76
6189214	79
6189215	80

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Surrogate Quality Control

6189217	74
6189218	76
6189220	75
6189221	76
6189223	79
6189224	79
6189225	75
6189226	72
6189227	78
6189229	71
6189230	69
6189231	73
Blank	87
LCS	84
LCSD	93
MS	79
MSD	80
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11024D20A

	Trifluorotoluene-F
6189232	78
Blank	69
LCS	118
LCSD	119
Limits:	63-135

Analysis Name: 20a Energetics by 8330A
Batch number: 110220005A

	2-Nitro-m-xylene
6189212	130
6189213	119
6189214	109
6189215	109
6189217	126
6189218	130
6189220	118
6189221	109
6189223	116
6189224	111
6189225	113
6189226	113
6189227	129
6189229	114
6189230	106
6189231	125
Blank	117
LCS	121
LCSD	111
MS	109
MSD	109
Limits:	80-146

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Surrogate Quality Control

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110240009A

	Butyraldehyde
6189212	103
6189213	89
6189214	100
6189215	99
6189217	100
6189218	96
6189220	95
6189221	97
6189223	103
6189224	101
6189225	104
6189226	99
6189227	100
6189229	103
6189230	104
6189231	104
Blank	92
LCS	98
MS	100
MSD	99
Limits:	64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110250001A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6189219	98	103
6189222	99	102
Blank	105	74
LCS	100	93
LCSD	100	92
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110250005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6189212	96	107
6189213	91	103
6189214	87	90
6189215	86	92
6189217	76	89
6189218	77	89
6189220	77	87
6189221	79	90
6189223	80	82
6189224	85	85
6189225	79	83
6189226	77	86
6189227	82	86

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Surrogate Quality Control

6189228	81	72
6189229	83	76
6189230	80	75
6189231	72	75
Blank	101	112
LCS	94	111
LCSD	71	114
MS	87	90
MSD	86	92
Limits:	53-139	45-120

Analysis Name: 27a Glycols by 8015B
Batch number: 110240003A

Tetramethylene glycol

6189212	84
6189213	77
6189214	90
6189215	98
6189217	91
6189218	63
6189220	96
6189221	35
6189223	74
6189224	91
6189225	86
6189226	122
Blank	101
LCS	105
MS	90
MSD	98
Limits:	29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110250013A

n-Triacontane-d62

6189212	106
6189213	111
6189214	112
6189215	109
6189217	106
6189218	112
6189220	113
6189221	103
6189223	123
6189224	104
6189225	98
6189226	99
6189227	106
6189229	238*
6189230	122
6189231	108
Blank	102
LCS	103
MS	112

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Surrogate Quality Control

MSD	109	
Limits:	50-150	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110250021A

	Chlorobenzene	Orthoterphenyl
6189212	81	105
6189213	97	107
6189214	108	119
6189215	94	109
6189217	63	85
6189218	88	116
6189220	85	109
6189221	99	125
6189223	93	121
6189224	73	94
6189225	85	110
6189226	84	103
6189227	78	91
6189229	103	123
6189230	94	107
6189231	88	99
Blank	88	98
LCS	93	101
MS	108	119
MSD	94	109
Limits:	37-125	47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 110250022A

	Acetone
6189212	81
6189213	76
6189214	83
6189215	89
6189217	88
6189218	83
6189220	86
6189221	81
6189223	83
6189224	82
6189225	77
6189226	83
6189227	84
6189229	82
6189230	77
6189231	81
Blank	97
LCS	101
MS	83
MSD	89
Limits:	42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230076
Reported: 02/10/11 at 01:06 PM

Surrogate Quality Control

Analysis Name: 27a Glycols by 8015B
Batch number: 110310023A

	Tetramethylene glycol
6189227	87
6189229	62
6189230	50
6189231	65
Blank	94
LCS	98
MS	87
MSD	84
Limits:	29-137

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1230076 sample# 6189212-32

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A(surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Isophorone EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-044-SA5B-SB-4.0-5.0	01.20.11	0930	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-044-SA5B-SB-4.5	01.20.11	0929	SOIL	NONE	5 ENCORES											X	X	X											
SL-294-SA5B-SB-4.0-5.0MS	01.20.11	0948	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-294-SA5B-SB-4.5MS	01.20.11	0945	SOIL	NONE	15 Encores											X	X	X											MS/MSD
SL-294-SA5B-SB-9.0-10.0	01.20.11	1004	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-294-SA5B-SB-9.5	01.20.11	0959	SOIL	NONE	5 ENCORES											X	X	X											
DUP19-SA5B-QC-012011	01.20.11	0959	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP19-SA5B-QC-012011	01.20.11	0959	SOIL	NONE	5 ENCORES											X	X	X											FIELD DUP
EB23-SA5B-012011	01.20.11	1118	SOIL	NONE	4 1L AMBERS			X	X	X																			SUBSURFACE RINSATE
EB23-SA5B-012011	01.20.11	1118	SOIL	NONE	1-500 mL poly		X				X	X																	SUBSURFACE RINSATE
EB23-SA5B-012011	01.20.11	1118	SOIL	HNO3	1-500mL poly	X																							SUBSURFACE RINSATE
SL-030-SA5B-SB-4.0-5.0	01.20.11	1122	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-030-SA5B-SB-4.5	01.20.11	1118	SOIL	NONE	5 ENCORES											X	X	X											
SL-030-SA5B-SB-9.0-10.0	01.20.11	1130	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-030-SA5B-SB-9.5	01.20.11	1126	SOIL	NONE	5 ENCORES											X	X	X											
EB24-SA5B-012011	01.20.11	1135	SOIL	NONE	4 1L AMBERS			X	X	X																			SUBSURFACE RINSATE
EB24-SA5B-012011	01.20.11	1135	SOIL	NONE	1-500 mL poly		X				X	X																	SUBSURFACE RINSATE
EB24-SA5B-012011	01.20.11	1135	SOIL	HNO3	1-500mL poly	X																							SUBSURFACE RINSATE
SL-035-SA5B-SB-4.0-5.0	01.20.11	1350	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-035-SA5B-SB-4.5	01.20.11	1349	SOIL	NONE	5 ENCORES											X	X	X											
SL-035-SA5B-SB-7.0-8.0	01.20.11	1338	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-035-SA5B-SB-7.5	01.20.11	1335	SOIL	NONE	5 ENCORES											X	X	X											
SL-034-SA5B-SB-4.0-5.0	01.20.11	1545	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-034-SA5B-SB-4.5	01.20.11	1541	SOIL	NONE	5 ENCORES											X	X	X											
SL-034-SA5B-SB-9.0-10.0	01.20.11	1553	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-034-SA5B-SB-9.5	01.20.11	1549	SOIL	NONE	5 ENCORES											X	X	X											
SL-019-SA5B-SB-4.0-5.0	01.20.11	1030	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-019-SA5B-SB-4.5	01.20.11	1025	SOIL	NONE	5 ENCORES											X	X	X											
SL-036-SA5B-SB-4.0-5.0	01.20.11	1504	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X																	
SL-036-SA5B-SB-4.5	01.20.11	1459	SOIL	NONE	4 ENCORES											X	X												
SL-037-SA5B-SB-3.5-4.5	01.20.11	1556	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-037-SA5B-SB-4.5	01.20.11	1553	SOIL	NONE	5 ENCORES											X	X	X											
SL-029-SA5B-SB-4.0-5.0	01.20.11	1418	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X																	
SL-029-SA5B-SB-4.5	01.20.11	1414	SOIL	NONE	5 ENCORES											X	X	X											
SL-029-SA5B-SB-9.0-10.0	01.20.11	1427	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-029-SA5B-SB-9.5	01.20.11	1423	SOIL	NONE	5 ENCORES											X	X	X											
TB-012011	01.20.11	0600	WATER	HCl	6-40 mL VOA VIALS											X	X	X											

Relinquished by: [Signature] Date/Time 1/20/2011, 17:08 Received for Laboratory by: [Signature]

Received by: [Signature] Date/Time 1/21/2011 Airbill No.(s) 8895 1432 2278, ...2290, ...2291, ...2306, ...2317

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 6

The sample depth for SL-037 was updated to 3.5-4.5, per PB. NLM 1/20/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/21/2011
Group Number: 1230077
SDG: DX042
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-014-SA5B-SB-4.0-5.0 Soil	6189233
SL-294-SA5B-SB-4.0-5.0 Soil	6189234
SL-294-SA5B-SB-4.0-5.0MS Soil	6189235
SL-294-SA5B-SB-4.0-5.0MSD Soil	6189236
SL-294-SA5B-SB-9.0-10.0 Soil	6189237
DUP19-SA5B-QC-012011 Soil	6189238
EB23-SA5B-012011 Water	6189239
SL-030-SA5B-SB-4.0-5.0 Soil	6189240
SL-030-SA5B-SB-9.0-10.0 Soil	6189241
EB24-SA5B-012011 Water	6189242
SL-035-SA5B-SB-4.0-5.0 Soil	6189243
SL-035-SA5B-SB-7.0-8.0 Soil	6189244
SL-034-SA5B-SB-4.0-5.0 Soil	6189245
SL-034-SA5B-SB-9.0-10.0 Soil	6189246
SL-019-SA5B-SB-4.0-5.0 Soil	6189247
SL-036-SA5B-SB-4.0-5.0 Soil	6189248
SL-037-SA5B-SB-3.5-4.5 Soil	6189249
SL-029-SA5B-SB-4.0-5.0 Soil	6189250
SL-029-SA5B-SB-9.0-10.0 Soil	6189251

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

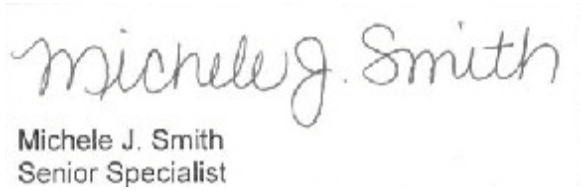

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189233
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4201 SDG#: DX042-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189233
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4201 SDG#: DX042-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0394	U	0.0394	1.13	1
11031	12378-PeCDD	40321-76-4	0.0969	JBQ	0.0495	5.66	1
11031	123478-HxCDD	39227-28-6	0.142	JB	0.0780	5.66	1
11031	123678-HxCDD	57653-85-7	0.959	JBQ	0.0772	5.66	1
11031	123789-HxCDD	19408-74-3	0.662	JB	0.0622	5.66	1
11031	1234678-HpCDD	35822-46-9	23.5	B	0.121	5.66	1
11031	OCDD	3268-87-9	396	B	0.0852	11.3	1
11031	2378-TCDF	51207-31-9	0.0446	U	0.0446	1.13	1
11031	12378-PeCDF	57117-41-6	0.0452	JBQ	0.0280	5.66	1
11031	23478-PeCDF	57117-31-4	0.176	JBQ	0.0260	5.66	1
11031	123478-HxCDF	70648-26-9	0.158	JB	0.0520	5.66	1
11031	123678-HxCDF	57117-44-9	0.275	JBQ	0.0465	5.66	1
11031	123789-HxCDF	72918-21-9	0.0951	JBQ	0.0460	5.66	1
11031	234678-HxCDF	60851-34-5	0.198	JBQ	0.0383	5.66	1
11031	1234678-HpCDF	67562-39-4	2.09	JB	0.0632	5.66	1
11031	1234789-HpCDF	55673-89-7	0.126	JBQ	0.0591	5.66	1
11031	OCDF	39001-02-0	7.89	JB	0.0554	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-014-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189233
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4201 SDG#: DX042-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-014-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5B-SB-4.0-5.0

LLI Sample # SW 6189233
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:34

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4201 SDG#: DX042-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/07/2011 23:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189234
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-294-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189234
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0489	U	0.0489	1.12	1
11031	12378-PeCDD	40321-76-4	0.0577	U	0.0577	5.61	1
11031	123478-HxCDD	39227-28-6	0.0708	U	0.0708	5.61	1
11031	123678-HxCDD	57653-85-7	0.464	JBQ	0.0689	5.61	1
11031	123789-HxCDD	19408-74-3	0.348	JB	0.0637	5.61	1
11031	1234678-HpCDD	35822-46-9	16.9	B	0.105	5.61	1
11031	OCDD	3268-87-9	212	B	0.0998	11.2	1
11031	2378-TCDF	51207-31-9	0.0515	U	0.0515	1.12	1
11031	12378-PeCDF	57117-41-6	0.0493	JB	0.0288	5.61	1
11031	23478-PeCDF	57117-31-4	0.130	JBQ	0.0210	5.61	1
11031	123478-HxCDF	70648-26-9	0.0468	JBQ	0.0442	5.61	1
11031	123678-HxCDF	57117-44-9	0.0706	JBQ	0.0395	5.61	1
11031	123789-HxCDF	72918-21-9	0.235	JBQ	0.0425	5.61	1
11031	234678-HxCDF	60851-34-5	0.0849	JBQ	0.0360	5.61	1
11031	1234678-HpCDF	67562-39-4	1.03	JB	0.0433	5.61	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0589	5.61	1
11031	OCDF	39001-02-0	3.05	JB	0.0882	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189234
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189234
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 00:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189235
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189235
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 01/21/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.5		0.0510	1.12	1
11031	12378-PeCDD	40321-76-4	112	B	0.0552	5.61	1
11031	123478-HxCDD	39227-28-6	109	B	0.117	5.61	1
11031	123678-HxCDD	57653-85-7	106	B	0.119	5.61	1
11031	123789-HxCDD	19408-74-3	106	B	0.0978	5.61	1
11031	1234678-HpCDD	35822-46-9	128	B	0.118	5.61	1
11031	OCDD	3268-87-9	541	B	0.0383	11.2	1
11031	2378-TCDF	51207-31-9	23.5		0.0703	1.12	1
11031	12378-PeCDF	57117-41-6	115	B	0.0502	5.61	1
11031	23478-PeCDF	57117-31-4	110	B	0.0431	5.61	1
11031	123478-HxCDF	70648-26-9	112	B	0.0698	5.61	1
11031	123678-HxCDF	57117-44-9	118	B	0.0547	5.61	1
11031	123789-HxCDF	72918-21-9	108	B	0.0756	5.61	1
11031	234678-HxCDF	60851-34-5	99.7	B	0.0718	5.61	1
11031	1234678-HpCDF	67562-39-4	105	B	0.0735	5.61	1
11031	1234789-HpCDF	55673-89-7	105	B	0.120	5.61	1
11031	OCDF	39001-02-0	220	B	0.0963	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	97	25 - 164
13C12-12378-PeCDD	118	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	130	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189235
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189235
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 01:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189236
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-294-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189236
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.3		0.0692	1.12	1
11031	12378-PeCDD	40321-76-4	110	B	0.0886	5.61	1
11031	123478-HxCDD	39227-28-6	108	B	0.0741	5.61	1
11031	123678-HxCDD	57653-85-7	114	B	0.0760	5.61	1
11031	123789-HxCDD	19408-74-3	113	B	0.0633	5.61	1
11031	1234678-HpCDD	35822-46-9	110	B	0.117	5.61	1
11031	OCDD	3268-87-9	271	B	0.0710	11.2	1
11031	2378-TCDF	51207-31-9	25.2		0.0746	1.12	1
11031	12378-PeCDF	57117-41-6	110	B	0.0533	5.61	1
11031	23478-PeCDF	57117-31-4	110	B	0.0572	5.61	1
11031	123478-HxCDF	70648-26-9	106	B	0.123	5.61	1
11031	123678-HxCDF	57117-44-9	119	B	0.0808	5.61	1
11031	123789-HxCDF	72918-21-9	105	B	0.129	5.61	1
11031	234678-HxCDF	60851-34-5	113	B	0.0893	5.61	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0800	5.61	1
11031	1234789-HpCDF	55673-89-7	108	B	0.102	5.61	1
11031	OCDF	39001-02-0	223	B	0.0868	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189236
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-294-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-4.0-5.0

LLI Sample # SW 6189236
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:48

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX042-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 02:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-294-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189237
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4203 SDG#: DX042-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189237
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4203 SDG#: DX042-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0593	U	0.0593	1.11	1
11031	12378-PeCDD	40321-76-4	0.571	JB	0.0748	5.56	1
11031	123478-HxCDD	39227-28-6	0.847	JBQ	0.135	5.56	1
11031	123678-HxCDD	57653-85-7	1.80	JB	0.150	5.56	1
11031	123789-HxCDD	19408-74-3	2.14	JBQ	0.132	5.56	1
11031	1234678-HpCDD	35822-46-9	45.8	B	0.118	5.56	1
11031	OCDD	3268-87-9	492	B	0.110	11.1	1
11031	2378-TCDF	51207-31-9	0.0704	U	0.0704	1.11	1
11031	12378-PeCDF	57117-41-6	0.216	JBQ	0.0379	5.56	1
11031	23478-PeCDF	57117-31-4	0.359	JBQ	0.0331	5.56	1
11031	123478-HxCDF	70648-26-9	0.516	JBQ	0.107	5.56	1
11031	123678-HxCDF	57117-44-9	0.542	JBQ	0.0914	5.56	1
11031	123789-HxCDF	72918-21-9	0.459	JB	0.104	5.56	1
11031	234678-HxCDF	60851-34-5	0.862	JB	0.0902	5.56	1
11031	1234678-HpCDF	67562-39-4	7.26	B	0.0570	5.56	1
11031	1234789-HpCDF	55673-89-7	0.655	JB	0.0608	5.56	1
11031	OCDF	39001-02-0	16.2	B	0.0771	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

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Analysis Report

Sample Description: SL-294-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189237
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4203 SDG#: DX042-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-294-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-294-SA5B-SB-9.0-10.0

LLI Sample # SW 6189237
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:04

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4203 SDG#: DX042-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 03:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189238
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4204 SDG#: DX042-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189238
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4204 SDG#: DX042-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0498	U	0.0498	1.17	1
11031	12378-PeCDD	40321-76-4	0.0478	U	0.0478	5.87	1
11031	123478-HxCDD	39227-28-6	0.0335	U	0.0335	5.87	1
11031	123678-HxCDD	57653-85-7	0.0549	JB	0.0325	5.87	1
11031	123789-HxCDD	19408-74-3	0.0499	JB	0.0318	5.87	1
11031	1234678-HpCDD	35822-46-9	0.395	JBQ	0.0599	5.87	1
11031	OCDD	3268-87-9	3.99	JB	0.0496	11.7	1
11031	2378-TCDF	51207-31-9	0.0595	U	0.0595	1.17	1
11031	12378-PeCDF	57117-41-6	0.0336	JBQ	0.0256	5.87	1
11031	23478-PeCDF	57117-31-4	0.0580	JBQ	0.0244	5.87	1
11031	123478-HxCDF	70648-26-9	0.0534	JBQ	0.0291	5.87	1
11031	123678-HxCDF	57117-44-9	0.0503	JBQ	0.0236	5.87	1
11031	123789-HxCDF	72918-21-9	0.0571	JBQ	0.0227	5.87	1
11031	234678-HxCDF	60851-34-5	0.0881	JB	0.0236	5.87	1
11031	1234678-HpCDF	67562-39-4	0.227	JBQ	0.0185	5.87	1
11031	1234789-HpCDF	55673-89-7	0.0291	U	0.0291	5.87	1
11031	OCDF	39001-02-0	0.323	JBQ	0.0629	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189238
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4204 SDG#: DX042-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP19-SA5B-QC-012011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP19-SA5B-QC-012011

LLI Sample # SW 6189238
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 09:55

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4204 SDG#: DX042-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 04:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB23-SA5B-012011 Water**
SSFL Area IV Collocated Soil Sampling
EB23-SA5B-012011

LLI Sample # WW 6189239
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:18

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4205 SDG#: DX042-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.519	U	0.519	2.05	1
10915	12378-PeCDD	40321-76-4	0.512	U	0.512	10.2	1
10915	123478-HxCDD	39227-28-6	0.273	U	0.273	10.2	1
10915	123678-HxCDD	57653-85-7	0.410	JBQ	0.285	10.2	1
10915	123789-HxCDD	19408-74-3	0.299	JQ	0.287	10.2	1
10915	1234678-HpCDD	35822-46-9	3.26	JBQ	0.478	10.2	1
10915	OCDD	3268-87-9	7.32	JB	0.479	20.5	1
10915	2378-TCDF	51207-31-9	0.338	U	0.338	2.05	1
10915	12378-PeCDF	57117-41-6	0.197	U	0.197	10.2	1
10915	23478-PeCDF	57117-31-4	1.14	JBQ	0.183	10.2	1
10915	123478-HxCDF	70648-26-9	0.835	JBQ	0.265	10.2	1
10915	123678-HxCDF	57117-44-9	0.759	JBQ	0.246	10.2	1
10915	123789-HxCDF	72918-21-9	0.283	U	0.283	10.2	1
10915	234678-HxCDF	60851-34-5	1.60	JB	0.247	10.2	1
10915	1234678-HpCDF	67562-39-4	5.15	JB	0.216	10.2	1
10915	1234789-HpCDF	55673-89-7	0.520	JB	0.242	10.2	1
10915	OCDF	39001-02-0	2.75	JBQ	0.440	20.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	40	25 - 164
13C12-12378-PeCDD	40	25 - 181
13C12-123478-HxCDD	39	32 - 141
13C12-123678-HxCDD	39	28 - 130
13C12-123789-HxCDD	39	28 - 130
13C12-1234678-HpCDD	43	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	46	24 - 169
13C12-12378-PeCDF	42	24 - 185
13C12-23478-PeCDF	43	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	43	28 - 136
13C12-123789-HxCDF	42	29 - 147
13C12-1234678-HpCDF	44	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB23-SA5B-012011 Water**
SSFL Area IV Collocated Soil Sampling
EB23-SA5B-012011

LLI Sample # WW 6189239
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:18

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4205 SDG#: DX042-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025002	02/03/2011 00:45	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11025002	01/26/2011 05:55	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189240
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4206 SDG#: DX042-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-030-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189240
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4206 SDG#: DX042-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0879	U	0.0879	1.17	1
11031	12378-PeCDD	40321-76-4	0.183	JBQ	0.0624	5.86	1
11031	123478-HxCDD	39227-28-6	0.0579	U	0.0579	5.86	1
11031	123678-HxCDD	57653-85-7	0.243	JBQ	0.0819	5.86	1
11031	123789-HxCDD	19408-74-3	0.281	JBQ	0.0856	5.86	1
11031	1234678-HpCDD	35822-46-9	7.18	B	0.145	5.86	1
11031	OCDD	3268-87-9	106	B	0.0934	11.7	1
11031	2378-TCDF	51207-31-9	0.103	U	0.103	1.17	1
11031	12378-PeCDF	57117-41-6	0.119	JBQ	0.0437	5.86	1
11031	23478-PeCDF	57117-31-4	0.135	JBQ	0.0329	5.86	1
11031	123478-HxCDF	70648-26-9	0.110	JB	0.0549	5.86	1
11031	123678-HxCDF	57117-44-9	0.128	JB	0.0474	5.86	1
11031	123789-HxCDF	72918-21-9	0.230	JB	0.0542	5.86	1
11031	234678-HxCDF	60851-34-5	0.0540	JBQ	0.0529	5.86	1
11031	1234678-HpCDF	67562-39-4	0.828	JBQ	0.0361	5.86	1
11031	1234789-HpCDF	55673-89-7	0.125	JBQ	0.0560	5.86	1
11031	OCDF	39001-02-0	1.75	JB	0.122	11.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	106	25 - 164
13C12-12378-PeCDD	126	25 - 181
13C12-123478-HxCDD	121	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	124	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	100	29 - 147
13C12-1234678-HpCDF	113	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	118	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189240
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4206 SDG#: DX042-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-4.0-5.0

LLI Sample # SW 6189240
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:22

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4206 SDG#: DX042-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 08:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-030-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189241
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4207 SDG#: DX042-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-030-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189241
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4207 SDG#: DX042-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0578	U	0.0578	1.15	1
11031	12378-PeCDD	40321-76-4	0.101	JBQ	0.0616	5.73	1
11031	123478-HxCDD	39227-28-6	0.0726	JBQ	0.0715	5.73	1
11031	123678-HxCDD	57653-85-7	0.333	JBQ	0.0699	5.73	1
11031	123789-HxCDD	19408-74-3	0.402	JB	0.0652	5.73	1
11031	1234678-HpCDD	35822-46-9	5.49	JB	0.112	5.73	1
11031	OCDD	3268-87-9	53.5	B	0.0656	11.5	1
11031	2378-TCDF	51207-31-9	0.0537	U	0.0537	1.15	1
11031	12378-PeCDF	57117-41-6	0.204	JBQ	0.0286	5.73	1
11031	23478-PeCDF	57117-31-4	0.176	JB	0.0261	5.73	1
11031	123478-HxCDF	70648-26-9	0.178	JBQ	0.0459	5.73	1
11031	123678-HxCDF	57117-44-9	0.127	JBQ	0.0381	5.73	1
11031	123789-HxCDF	72918-21-9	0.542	JBQ	0.0372	5.73	1
11031	234678-HxCDF	60851-34-5	0.114	JB	0.0431	5.73	1
11031	1234678-HpCDF	67562-39-4	0.807	JB	0.0324	5.73	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0608	5.73	1
11031	OCDF	39001-02-0	1.32	JB	0.101	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	112	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189241
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4207 SDG#: DX042-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5B-SB-9.0-10.0

LLI Sample # SW 6189241
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:30

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4207 SDG#: DX042-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 09:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB24-SA5B-012011 Water**
SSFL Area IV Collocated Soil Sampling
EB24-SA5B-012011

LLI Sample # WW 6189242
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:35

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4208 SDG#: DX042-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.324	U	0.324	2.13	1
10915	12378-PeCDD	40321-76-4	0.595	JBQ	0.328	10.7	1
10915	123478-HxCDD	39227-28-6	0.208	U	0.208	10.7	1
10915	123678-HxCDD	57653-85-7	0.224	U	0.224	10.7	1
10915	123789-HxCDD	19408-74-3	0.213	U	0.213	10.7	1
10915	1234678-HpCDD	35822-46-9	2.91	JBQ	0.396	10.7	1
10915	OCDD	3268-87-9	4.81	JB	0.324	21.3	1
10915	2378-TCDF	51207-31-9	0.218	U	0.218	2.13	1
10915	12378-PeCDF	57117-41-6	0.132	JBQ	0.126	10.7	1
10915	23478-PeCDF	57117-31-4	0.580	JBQ	0.115	10.7	1
10915	123478-HxCDF	70648-26-9	0.609	JBQ	0.189	10.7	1
10915	123678-HxCDF	57117-44-9	0.548	JBQ	0.182	10.7	1
10915	123789-HxCDF	72918-21-9	0.185	U	0.185	10.7	1
10915	234678-HxCDF	60851-34-5	0.893	JBQ	0.168	10.7	1
10915	1234678-HpCDF	67562-39-4	3.58	JBQ	0.158	10.7	1
10915	1234789-HpCDF	55673-89-7	0.413	JB	0.183	10.7	1
10915	OCDF	39001-02-0	2.53	JBQ	0.337	21.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB24-SA5B-012011 Water**
SSFL Area IV Collocated Soil Sampling
EB24-SA5B-012011

LLI Sample # WW 6189242
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 11:35

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4208 SDG#: DX042-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11025002	02/03/2011 01:42	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11025002	01/26/2011 05:55	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-035-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189243
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4209 SDG#: DX042-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-035-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189243
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4209 SDG#: DX042-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0474	U	0.0474	1.10	1
11031	12378-PeCDD	40321-76-4	0.227	JBQ	0.0453	5.50	1
11031	123478-HxCDD	39227-28-6	0.334	JB	0.0619	5.50	1
11031	123678-HxCDD	57653-85-7	0.918	JB	0.0656	5.50	1
11031	123789-HxCDD	19408-74-3	0.963	JB	0.0636	5.50	1
11031	1234678-HpCDD	35822-46-9	21.3	B	0.0846	5.50	1
11031	OCDD	3268-87-9	233	B	0.0546	11.0	1
11031	2378-TCDF	51207-31-9	0.0743	JQ	0.0525	1.10	1
11031	12378-PeCDF	57117-41-6	0.0574	JBQ	0.0277	5.50	1
11031	23478-PeCDF	57117-31-4	0.155	JBQ	0.0221	5.50	1
11031	123478-HxCDF	70648-26-9	0.121	JBQ	0.0518	5.50	1
11031	123678-HxCDF	57117-44-9	0.271	JBQ	0.0420	5.50	1
11031	123789-HxCDF	72918-21-9	0.132	JBQ	0.0409	5.50	1
11031	234678-HxCDF	60851-34-5	0.270	JBQ	0.0361	5.50	1
11031	1234678-HpCDF	67562-39-4	2.76	JB	0.0382	5.50	1
11031	1234789-HpCDF	55673-89-7	0.206	JBQ	0.0306	5.50	1
11031	OCDF	39001-02-0	6.22	JB	0.0604	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	99	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	157	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	106	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	100	28 - 136
13C12-123789-HxCDF	104	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	133	26 - 138
13C12-OCDF	100	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-035-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189243
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4209 SDG#: DX042-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-4.0-5.0

LLI Sample # SW 6189243
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:53

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4209 SDG#: DX042-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 10:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189244
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4210 SDG#: DX042-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-035-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189244
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4210 SDG#: DX042-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0525	U	0.0525	1.08	1
11031	12378-PeCDD	40321-76-4	0.0544	U	0.0544	5.41	1
11031	123478-HxCDD	39227-28-6	0.0606	U	0.0606	5.41	1
11031	123678-HxCDD	57653-85-7	0.248	JB	0.0589	5.41	1
11031	123789-HxCDD	19408-74-3	0.238	JB	0.0514	5.41	1
11031	1234678-HpCDD	35822-46-9	5.73	B	0.0768	5.41	1
11031	OCDD	3268-87-9	72.3	B	0.0571	10.8	1
11031	2378-TCDF	51207-31-9	0.0683	U	0.0683	1.08	1
11031	12378-PeCDF	57117-41-6	0.0696	JBQ	0.0285	5.41	1
11031	23478-PeCDF	57117-31-4	0.0842	JBQ	0.0274	5.41	1
11031	123478-HxCDF	70648-26-9	0.0512	JBQ	0.0370	5.41	1
11031	123678-HxCDF	57117-44-9	0.0553	JBQ	0.0310	5.41	1
11031	123789-HxCDF	72918-21-9	0.107	JBQ	0.0350	5.41	1
11031	234678-HxCDF	60851-34-5	0.112	JBQ	0.0355	5.41	1
11031	1234678-HpCDF	67562-39-4	0.495	JB	0.0347	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0479	U	0.0479	5.41	1
11031	OCDF	39001-02-0	1.24	JBQ	0.0745	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189244
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4210 SDG#: DX042-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5B-SB-7.0-8.0

LLI Sample # SW 6189244
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 13:39

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4210 SDG#: DX042-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 11:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189245
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4211 SDG#: DX042-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189245
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4211 SDG#: DX042-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0510	U	0.0510	1.14	1
11031	12378-PeCDD	40321-76-4	0.155	JBQ	0.0594	5.68	1
11031	123478-HxCDD	39227-28-6	0.138	JBQ	0.0972	5.68	1
11031	123678-HxCDD	57653-85-7	0.707	JBQ	0.110	5.68	1
11031	123789-HxCDD	19408-74-3	0.661	JB	0.0981	5.68	1
11031	1234678-HpCDD	35822-46-9	19.1	B	0.116	5.68	1
11031	OCDD	3268-87-9	241	B	0.148	11.4	1
11031	2378-TCDF	51207-31-9	0.0655	U	0.0655	1.14	1
11031	12378-PeCDF	57117-41-6	0.0569	JBQ	0.0335	5.68	1
11031	23478-PeCDF	57117-31-4	0.138	JBQ	0.0289	5.68	1
11031	123478-HxCDF	70648-26-9	0.140	JBQ	0.0472	5.68	1
11031	123678-HxCDF	57117-44-9	0.117	JBQ	0.0414	5.68	1
11031	123789-HxCDF	72918-21-9	0.193	JBQ	0.0510	5.68	1
11031	234678-HxCDF	60851-34-5	0.110	JB	0.0450	5.68	1
11031	1234678-HpCDF	67562-39-4	1.64	JBQ	0.0408	5.68	1
11031	1234789-HpCDF	55673-89-7	0.176	JBQ	0.0445	5.68	1
11031	OCDF	39001-02-0	3.74	JB	0.0876	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	94	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189245
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4211 SDG#: DX042-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-4.0-5.0

LLI Sample # SW 6189245
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:45

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4211 SDG#: DX042-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 12:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189246
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4212 SDG#: DX042-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189246
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4212 SDG#: DX042-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0630	U	0.0630	1.10	1
11031	12378-PeCDD	40321-76-4	0.102	JBQ	0.0719	5.52	1
11031	123478-HxCDD	39227-28-6	0.159	JB	0.106	5.52	1
11031	123678-HxCDD	57653-85-7	0.956	JB	0.116	5.52	1
11031	123789-HxCDD	19408-74-3	0.593	JB	0.0709	5.52	1
11031	1234678-HpCDD	35822-46-9	23.7	B	0.0865	5.52	1
11031	OCDD	3268-87-9	337	B	0.101	11.0	1
11031	2378-TCDF	51207-31-9	0.0641	JQ	0.0583	1.10	1
11031	12378-PeCDF	57117-41-6	0.0363	U	0.0363	5.52	1
11031	23478-PeCDF	57117-31-4	0.0315	U	0.0315	5.52	1
11031	123478-HxCDF	70648-26-9	0.123	JBQ	0.0479	5.52	1
11031	123678-HxCDF	57117-44-9	0.180	JBQ	0.0510	5.52	1
11031	123789-HxCDF	72918-21-9	0.184	JBQ	0.0371	5.52	1
11031	234678-HxCDF	60851-34-5	0.140	JB	0.0561	5.52	1
11031	1234678-HpCDF	67562-39-4	2.09	JB	0.0497	5.52	1
11031	1234789-HpCDF	55673-89-7	0.200	JBQ	0.0636	5.52	1
11031	OCDF	39001-02-0	4.99	JB	0.0784	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	106	28 - 130
13C12-1234678-HpCDD	103	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	119	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-034-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189246
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4212 SDG#: DX042-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5B-SB-9.0-10.0

LLI Sample # SW 6189246
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:53

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4212 SDG#: DX042-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 13:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189247
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4213 SDG#: DX042-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189247
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4213 SDG#: DX042-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0469	U	0.0469	1.11	1
11031	12378-PeCDD	40321-76-4	0.0386	U	0.0386	5.53	1
11031	123478-HxCDD	39227-28-6	0.0346	U	0.0346	5.53	1
11031	123678-HxCDD	57653-85-7	0.0837	JBQ	0.0379	5.53	1
11031	123789-HxCDD	19408-74-3	0.175	JBQ	0.0382	5.53	1
11031	1234678-HpCDD	35822-46-9	0.204	JB	0.0544	5.53	1
11031	OCDD	3268-87-9	0.889	JB	0.0496	11.1	1
11031	2378-TCDF	51207-31-9	0.0533	U	0.0533	1.11	1
11031	12378-PeCDF	57117-41-6	0.0319	JBQ	0.0236	5.53	1
11031	23478-PeCDF	57117-31-4	0.0444	JB	0.0195	5.53	1
11031	123478-HxCDF	70648-26-9	0.0258	U	0.0258	5.53	1
11031	123678-HxCDF	57117-44-9	0.0250	JBQ	0.0212	5.53	1
11031	123789-HxCDF	72918-21-9	0.0377	JBQ	0.0280	5.53	1
11031	234678-HxCDF	60851-34-5	0.0257	JBQ	0.0228	5.53	1
11031	1234678-HpCDF	67562-39-4	0.0799	JB	0.0192	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0283	U	0.0283	5.53	1
11031	OCDF	39001-02-0	0.121	JB	0.0580	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189247
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4213 SDG#: DX042-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5B-SB-4.0-5.0

LLI Sample # SW 6189247
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 10:30

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4213 SDG#: DX042-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 14:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189248
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4214 SDG#: DX042-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189248
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4214 SDG#: DX042-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0636	U	0.0636	1.11	1
11031	12378-PeCDD	40321-76-4	0.127	JBQ	0.0646	5.53	1
11031	123478-HxCDD	39227-28-6	0.0952	U	0.0952	5.53	1
11031	123678-HxCDD	57653-85-7	0.868	JBQ	0.0919	5.53	1
11031	123789-HxCDD	19408-74-3	0.604	JBQ	0.0694	5.53	1
11031	1234678-HpCDD	35822-46-9	40.1	B	0.0856	5.53	1
11031	OCDD	3268-87-9	339	B	0.0908	11.1	1
11031	2378-TCDF	51207-31-9	0.0728	U	0.0728	1.11	1
11031	12378-PeCDF	57117-41-6	0.0796	JBQ	0.0248	5.53	1
11031	23478-PeCDF	57117-31-4	0.111	JBQ	0.0305	5.53	1
11031	123478-HxCDF	70648-26-9	0.181	JB	0.0485	5.53	1
11031	123678-HxCDF	57117-44-9	0.227	JBQ	0.0444	5.53	1
11031	123789-HxCDF	72918-21-9	0.174	JBQ	0.0403	5.53	1
11031	234678-HxCDF	60851-34-5	0.136	JB	0.0449	5.53	1
11031	1234678-HpCDF	67562-39-4	2.37	JB	0.0355	5.53	1
11031	1234789-HpCDF	55673-89-7	0.227	JB	0.0413	5.53	1
11031	OCDF	39001-02-0	6.48	JB	0.0800	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	105	28 - 130
13C12-1234678-HpCDD	112	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	111	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	109	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189248
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4214 SDG#: DX042-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-036-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5B-SB-4.0-5.0

LLI Sample # SW 6189248
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:04

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4214 SDG#: DX042-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 15:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189249
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4215 SDG#: DX042-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189249
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4215 SDG#: DX042-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0512	U	0.0512	1.12	1
11031	12378-PeCDD	40321-76-4	0.0822	JBQ	0.0552	5.61	1
11031	123478-HxCDD	39227-28-6	0.144	JBQ	0.0794	5.61	1
11031	123678-HxCDD	57653-85-7	0.588	JBQ	0.0876	5.61	1
11031	123789-HxCDD	19408-74-3	0.365	JB	0.0748	5.61	1
11031	1234678-HpCDD	35822-46-9	19.7	B	0.107	5.61	1
11031	OCDD	3268-87-9	342	B	0.0739	11.2	1
11031	2378-TCDF	51207-31-9	0.0597	JQ	0.0517	1.12	1
11031	12378-PeCDF	57117-41-6	0.0922	JBQ	0.0247	5.61	1
11031	23478-PeCDF	57117-31-4	0.102	JBQ	0.0335	5.61	1
11031	123478-HxCDF	70648-26-9	0.129	JB	0.0491	5.61	1
11031	123678-HxCDF	57117-44-9	0.161	JB	0.0387	5.61	1
11031	123789-HxCDF	72918-21-9	0.0455	U	0.0455	5.61	1
11031	234678-HxCDF	60851-34-5	0.0886	JBQ	0.0454	5.61	1
11031	1234678-HpCDF	67562-39-4	1.61	JB	0.0332	5.61	1
11031	1234789-HpCDF	55673-89-7	0.145	JB	0.0494	5.61	1
11031	OCDF	39001-02-0	5.98	JB	0.0533	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	111	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	90	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189249
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4215 SDG#: DX042-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-037-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5B-SB-3.5-4.5

LLI Sample # SW 6189249
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 15:58

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4215 SDG#: DX042-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 16:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189250
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4216 SDG#: DX042-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-029-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189250
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4216 SDG#: DX042-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0958	U	0.0958	1.15	1
11031	12378-PeCDD	40321-76-4	0.296	JBQ	0.0913	5.73	1
11031	123478-HxCDD	39227-28-6	0.248	JBQ	0.154	5.73	1
11031	123678-HxCDD	57653-85-7	0.791	JB	0.150	5.73	1
11031	123789-HxCDD	19408-74-3	0.691	JBQ	0.138	5.73	1
11031	1234678-HpCDD	35822-46-9	26.9	B	0.221	5.73	1
11031	OCDD	3268-87-9	363	B	0.192	11.5	1
11031	2378-TCDF	51207-31-9	0.0944	U	0.0944	1.15	1
11031	12378-PeCDF	57117-41-6	0.119	JBQ	0.0666	5.73	1
11031	23478-PeCDF	57117-31-4	0.0683	U	0.0683	5.73	1
11031	123478-HxCDF	70648-26-9	0.140	JBQ	0.104	5.73	1
11031	123678-HxCDF	57117-44-9	0.176	JBQ	0.0918	5.73	1
11031	123789-HxCDF	72918-21-9	0.107	U	0.107	5.73	1
11031	234678-HxCDF	60851-34-5	0.184	JBQ	0.0946	5.73	1
11031	1234678-HpCDF	67562-39-4	2.25	JB	0.0969	5.73	1
11031	1234789-HpCDF	55673-89-7	0.196	JB	0.146	5.73	1
11031	OCDF	39001-02-0	6.50	JB	0.156	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	98	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	110	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	54	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	104	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-029-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189250
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4216 SDG#: DX042-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-4.0-5.0

LLI Sample # SW 6189250
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:18

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4216 SDG#: DX042-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/08/2011 17:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189251
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4217 SDG#: DX042-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-029-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189251
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4217 SDG#: DX042-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0306	U	0.0306	1.13	1
11031	12378-PeCDD	40321-76-4	0.264	JBQ	0.0307	5.64	1
11031	123478-HxCDD	39227-28-6	0.339	JB	0.0499	5.64	1
11031	123678-HxCDD	57653-85-7	0.897	JB	0.0523	5.64	1
11031	123789-HxCDD	19408-74-3	0.819	JB	0.0508	5.64	1
11031	1234678-HpCDD	35822-46-9	21.5	B	0.0601	5.64	1
11031	OCDD	3268-87-9	281	B	0.0778	11.3	1
11031	2378-TCDF	51207-31-9	0.0814	JQ	0.0308	1.13	1
11031	12378-PeCDF	57117-41-6	0.121	JB	0.0171	5.64	1
11031	23478-PeCDF	57117-31-4	0.163	JBQ	0.0153	5.64	1
11031	123478-HxCDF	70648-26-9	0.176	JBQ	0.0272	5.64	1
11031	123678-HxCDF	57117-44-9	0.220	JB	0.0253	5.64	1
11031	123789-HxCDF	72918-21-9	0.218	JBQ	0.0333	5.64	1
11031	234678-HxCDF	60851-34-5	0.307	JB	0.0283	5.64	1
11031	1234678-HpCDF	67562-39-4	2.54	JB	0.0225	5.64	1
11031	1234789-HpCDF	55673-89-7	0.210	JB	0.0287	5.64	1
11031	OCDF	39001-02-0	5.29	JB	0.0373	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189251
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4217 SDG#: DX042-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5B-SB-9.0-10.0

LLI Sample # SW 6189251
LLI Group # 1230077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/20/2011 14:27

Submitted: 01/21/2011 10:00
Reported: 03/01/2011 19:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4217 SDG#: DX042-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11032001	02/11/2011 13:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11032001	02/01/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401A	02/03/2011 19:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230077
Reported: 03/01/11 at 07:50 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11027162401A	Sample number(s): 6189248									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11034162401A	Sample number(s): 6189233-6189238,6189240-6189241,6189243-6189247,6189249-6189251									
28a Moisture Content by 160.3						99		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11025002	Sample number(s): 6189239,6189242									
2378-TCDD	0.212	U	0.212	2.00	pg/l	100		67-158		
12378-PeCDD	0.265	J	0.231	10.0	pg/l	104		70-142		
123478-HxCDD	0.161	J	0.140	10.0	pg/l	107		70-164		
123678-HxCDD	0.155	J	0.148	10.0	pg/l	106		76-134		
123789-HxCDD	0.146	U	0.146	10.0	pg/l	106		64-162		
1234678-HpCDD	1.97	J	0.274	10.0	pg/l	111		70-140		
OCDD	4.75	J	0.252	20.0	pg/l	117		78-144		
2378-TCDF	0.291	J	0.168	2.00	pg/l	107		75-158		
12378-PeCDF	0.284	J	0.0732	10.0	pg/l	106		80-134		
23478-PeCDF	0.530	J	0.0682	10.0	pg/l	105		68-160		
123478-HxCDF	0.784	J	0.122	10.0	pg/l	111		72-134		
123678-HxCDF	0.463	J	0.112	10.0	pg/l	108		84-130		
123789-HxCDF	0.178	J	0.123	10.0	pg/l	108		78-130		
234678-HxCDF	0.865	J	0.110	10.0	pg/l	109		70-156		
1234678-HpCDF	3.23	J	0.136	10.0	pg/l	113		82-122		
1234789-HpCDF	0.279	J	0.162	10.0	pg/l	113		78-138		
OCDF	2.06	J	0.262	20.0	pg/l	118		63-170		
Batch number: 11032001	Sample number(s): 6189233-6189238,6189240-6189241,6189243-6189251									
2378-TCDD	0.0323	U	0.0323	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0510	J	0.0302	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0361	J	0.0209	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0384	J	0.0219	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0359	J	0.0204	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.219	J	0.0316	5.00	ng/kg	103		70-140		
OCDD	0.513	J	0.0319	10.0	ng/kg	103		78-144		
2378-TCDF	0.0349	U	0.0349	1.00	ng/kg	111		75-158		
12378-PeCDF	0.0415	J	0.0151	5.00	ng/kg	101		80-134		
23478-PeCDF	0.106	J	0.0150	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0659	J	0.0165	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0508	J	0.0145	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0588	J	0.0187	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0823	J	0.0153	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.242	J	0.0145	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0453	J	0.0190	5.00	ng/kg	102		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230077
Reported: 03/01/11 at 07:50 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.298	J	0.0355	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11027162401A	Sample number(s): 6189248 BKG: P189705								
28a Moisture Content by 160.3						13.5	14.1	4	20
Batch number: 11034162401A	Sample number(s): 6189233-6189238,6189240-6189241,6189243-6189247,6189249-6189251 BKG: P189213								
28a Moisture Content by 160.3						10.9	10.9	0	20
Batch number: 11032001	Sample number(s): 6189233-6189238,6189240-6189241,6189243-6189251 UNSPK: 6189234								
2378-TCDD	92	95	67-158	4	25				
12378-PeCDD	100	98	70-142	1	25				
123478-HxCDD	97	96	70-164	1	25				
123678-HxCDD	94	101	76-134	7	25				
123789-HxCDD	95	100	64-162	6	25				
1234678-HpCDD	99	83	70-140	15	25				
OCDD	146*	26*	78-144	66*	25				
2378-TCDF	105	112	75-158	7	25				
12378-PeCDF	102	98	80-134	4	25				
23478-PeCDF	98	98	68-160	1	25				
123478-HxCDF	100	95	72-134	5	25				
123678-HxCDF	105	106	84-130	1	25				
123789-HxCDF	96	93	78-130	3	25				
234678-HxCDF	89	101	70-156	13	25				
1234678-HpCDF	93	96	82-122	3	25				
1234789-HpCDF	94	96	78-138	2	25				
OCDF	97	98	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11025002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6189239	40	43	40	42	43	42
6189242	58	63	62	65	65	67
Blank	77	86	83	85	87	88
OPR	76	82	78	84	82	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230077
Reported: 03/01/11 at 07:50 PM

Surrogate Quality Control

(CRS)

6189239	44	46	53	81	40	39
6189242	66	69	77	83	59	60
Blank	84	86	89	98	83	82
OPR	83	87	96	93	78	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6189239	39	39	43	49	46	42
6189242	61	59	64	71	64	63
Blank	82	81	82	87	83	89
OPR	78	78	81	89	79	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11032001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6189233	86	76	52	57	70	75
6189234	68	93	56	62	67	66
6189235	97	80	69	82	63	77
6189236	78	60	54	78	71	59
6189237	83	85	58	66	69	68
6189238	65	63	55	65	68	79
6189240	106	124	82	95	85	100
6189241	75	82	74	86	79	112
6189243	86	106	73	86	100	104
6189244	68	75	65	74	68	79
6189245	77	73	77	81	78	82
6189246	72	69	80	73	68	119
6189247	75	90	68	81	76	75
6189248	71	81	75	81	80	111
6189249	82	64	67	74	67	81
6189250	73	52	78	84	80	83
6189251	72	78	72	78	70	67
Blank	76	80	75	83	79	82
MS	97	80	69	82	63	77
MSD	78	60	54	78	71	59
OPR	65	55	69	66	72	80
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6189233	55	73	76	90	85	73
6189234	68	61	54	82	67	66
6189235	64	52	50	83	118	63
6189236	70	64	85	85	63	64
6189237	73	86	84	96	85	78
6189238	95	76	76	76	67	75
6189240	113	88	68	118	126	121
6189241	96	64	64	99	74	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230077
Reported: 03/01/11 at 07:50 PM

Surrogate Quality Control

6189243	88	133	100	93	94	99
6189244	86	78	82	74	75	72
6189245	85	94	71	75	79	76
6189246	81	77	82	78	67	72
6189247	94	80	78	82	92	84
6189248	103	109	69	90	82	76
6189249	95	83	90	85	79	70
6189250	89	75	104	76	67	84
6189251	78	75	83	86	98	79
Blank	84	86	85	96	80	86
MS	64	52	50	83	118	63
MSD	70	64	85	85	63	64
OPR	86	84	84	78	68	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6189233	74	86	69	78	79	76
6189234	71	73	74	65	68	69
6189235	64	75	67	130	72	76
6189236	65	75	67	97	73	67
6189237	74	81	92	100	73	79
6189238	79	79	88	90	55	65
6189240	93	82	86	87	86	100
6189241	80	89	70	88	78	81
6189243	96	97	99	157	90	87
6189244	71	80	90	95	59	75
6189245	67	75	87	90	75	67
6189246	66	106	103	105	74	65
6189247	81	74	86	92	72	82
6189248	78	105	112	84	84	103
6189249	65	74	86	111	82	94
6189250	89	98	97	110	77	54
6189251	76	77	82	88	72	76
Blank	83	88	95	86	63	83
MS	64	75	67	130	72	76
MSD	65	75	67	97	73	67
OPR	78	80	93	91	58	59
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1230077 sample# 6189233-51

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which $ Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196/	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)@	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 6850	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-014-SA5B-SB-4.0-5.0	01.20.11	0934	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-014-SA5B-SB-4.5	01.20.11	0929	SOIL	NONE	5 ENCORES											X	X	X											
SL-294-SA5B-SB-4.0-5.0MS	01.20.11	0948	SOIL	NONE	12 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-294-SA5B-SB-4.5MS	01.20.11	0945	SOIL	NONE	15 Encores											X	X	X											MS/MSD
SL-294-SA5B-SB-9.0-10.0	01.20.11	1004	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-294-SA5B-SB-9.5	01.20.11	0959	SOIL	NONE	5 ENCORES											X	X	X											
DUP18-SA5B-QC-012011	01.20.11	0955	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP18-SA5B-QC-012011	01.20.11	0955	SOIL	NONE	5 ENCORES											X	X	X											FIELD DUP
EB23-SA5B-012011	01.20.11	1118	SOIL	NONE	4 1L AMBERS			X	X	X																			SUBSURFACE RINSATE
EB23-SA5B-012011	01.20.11	1118	SOIL	NONE	1-500 mL poly		X				X	X																	SUBSURFACE RINSATE
EB23-SA5B-012011	01.20.11	1118	SOIL	HNO3	1-500mL poly	X																							SUBSURFACE RINSATE
SL-030-SA5B-SB-4.0-5.0	01.20.11	1122	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-030-SA5B-SB-4.5	01.20.11	1118	SOIL	NONE	5 ENCORES											X	X	X											
SL-030-SA5B-SB-9.0-10.0	01.20.11	1130	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-030-SA5B-SB-9.5	01.20.11	1126	SOIL	NONE	5 ENCORES											X	X	X											
EB24-SA5B-012011	01.20.11	1135	SOIL	NONE	4 1L AMBERS			X	X	X																			SUBSURFACE RINSATE
EB24-SA5B-012011	01.20.11	1135	SOIL	NONE	1-500 mL poly		X				X	X																	SUBSURFACE RINSATE
EB24-SA5B-012011	01.20.11	1135	SOIL	HNO3	1-500mL poly	X																							SUBSURFACE RINSATE
SL-035-SA5B-SB-4.0-5.0	01.20.11	1353	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-035-SA5B-SB-4.5	01.20.11	1348	SOIL	NONE	5 ENCORES											X	X	X											
SL-035-SA5B-SB-7.0-8.0	01.20.11	1339	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-035-SA5B-SB-7.5	01.20.11	1335	SOIL	NONE	5 ENCORES											X	X	X											
SL-034-SA5B-SB-4.0-5.0	01.20.11	1545	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-034-SA5B-SB-4.5	01.20.11	1541	SOIL	NONE	5 ENCORES											X	X	X											
SL-034-SA5B-SB-9.0-10.0	01.20.11	1553	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-034-SA5B-SB-9.5	01.20.11	1549	SOIL	NONE	5 ENCORES											X	X	X											
SL-019-SA5B-SB-4.0-5.0	01.20.11	1030	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-019-SA5B-SB-4.5	01.20.11	1025	SOIL	NONE	5 ENCORES											X	X	X											
SL-036-SA5B-SB-4.0-5.0	01.20.11	1504	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-036-SA5B-SB-4.5	01.20.11	1459	SOIL	NONE	4 ENCORES											X	X												
SL-037-SA5B-SB-4.5	01.20.11	1558	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-037-SA5B-SB-4.0	01.20.11	1553	SOIL	NONE	5 ENCORES											X	X	X											
SL-029-SA5B-SB-4.0-5.0	01.20.11	1416	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-029-SA5B-SB-4.5	01.20.11	1414	SOIL	NONE	5 ENCORES											X	X	X											
SL-029-SA5B-SB-9.0-10.0	01.20.11	1427	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-029-SA5B-SB-9.5	01.20.11	1423	SOIL	NONE	5 ENCORES											X	X	X											
TB-012011	01.20.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature) — Date/Time: 1/20/2011, 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 1/21/2011 — Airbill No.(s): 8885 1432 2278, ...2280, ...2291, ...2306, ...2317

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 5

The sample depth for SL-037 was updated to 3.5-4.5 per PB. NLM 1/26/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/22/2011
Group Number: 1230154
SDG: DE066
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-308-SA5B-SB-4.0-5.0 Soil	6189701
SL-308-SA5B-SB-9.0-10.0 Soil	6189702
SL-308-SA5B-SB-14.0-15.0 Soil	6189703
EB25-SA5B-012111 Water	6189704
SL-253-SA5B-SB-3.0-4.0 Soil	6189705
SL-253-SA5B-SB-3.0-4.0MS Soil	6189706
SL-253-SA5B-SB-3.0-4.0MSD Soil	6189707
SL-253-SA5B-SB-3.0-4.0DUP Soil	6189708
SL-254-SA5B-SB-3.5-4.5 Soil	6189709
DUP20-SA5B-QC-012111 Soil	6189710
SL-307-SA5B-SB-4.0-5.0 Soil	6189711
SL-307-SA5B-SB-9.0-10.0 Soil	6189712
SL-307-SA5B-SB-14.0-15.0 Soil	6189713
TB-012111 Water	6189714

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-308-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189701
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE066-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.8		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.83
06192	Methylene Chloride	75-09-2	0.48	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-308-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189701
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE066-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08	J	0.07	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.63
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	58.7		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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SL-308-SA5B-SB-4.0-5.0

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E6601 SDG#: DE066-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.66	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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LLI Group # 1230154
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E6601 SDG#: DE066-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.52	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	3.3		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	5.4		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were

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	obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls		**SW-846 8015B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		5.48	21.8		1
07914	Boron	7440-42-8	1.65	J	0.970	5.45		1
01650	Calcium	7440-70-2	1,830		6.68	21.8		1
01654	Iron	7439-89-6	15,400		5.13	21.8		1
01656	Lithium	7439-93-2	19.4		0.24	2.2		1
01657	Magnesium	7439-95-4	3,220		2.77	10.9		1
06958	Manganese	7439-96-5	200		0.0850	0.545		1
10145	Phosphorus	7723-14-0	297		0.611	10.9		1
01662	Potassium	7440-09-7	2,620		19.6	54.5		1
01667	Sodium	7440-23-5	92.8	J	40.7	109		1
07968	Strontium	7440-24-6	17.4		0.0676	0.545		1
06969	Tin	7440-31-5	1.91	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,060		0.422	1.11		1
10146	Zirconium	7440-67-7	2.16	J	0.916	5.45		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0648	U	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.72		0.0864	0.432		2
06126	Barium	7440-39-3	80.7		0.117	0.432		2
06127	Beryllium	7440-41-7	0.502		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0821	J	0.0432	0.108		2
06131	Chromium	7440-47-3	15.6		0.130	0.432		2
06132	Cobalt	7440-48-4	5.15		0.0216	0.108		2
06133	Copper	7440-50-8	8.06		0.0713	0.432		2
06135	Lead	7439-92-1	4.89		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.406		0.0540	0.108		2
06139	Nickel	7440-02-0	10.2		0.108	0.432		2
06141	Selenium	7782-49-2	0.108	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0281	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.231		0.0324	0.108		2
06148	Vanadium	7440-62-2	30.4		0.0238	0.108		2
06149	Zinc	7440-66-6	51.2		0.605	3.24		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1

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E6601 SDG#: DE066-01

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Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	390		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-308-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011	19:10	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	10:57	Jason M Long	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011	14:27	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-308-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189701
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE066-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011 15:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011 15:01	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011 14:27	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 13:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 01:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/01/2011 23:40	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/26/2011 00:20	Marie D John	20.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:27	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 03:52	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 18:50	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110310001A	02/03/2011 14:24	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 17:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110310001A	01/31/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 00:35	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 04:23	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 11:43	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 23:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1

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Sample Description: SL-308-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189701
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE066-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 09:51	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 16:58	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:20	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:20	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:20	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:20	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:20	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 00:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 00:57	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 00:57	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:20	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:20	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 00:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/02/2011 15:20	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:20	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:20	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 00:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:20	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 14:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033202A	02/04/2011 14:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621202A	02/04/2011 11:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243201A	02/09/2011 00:40	James S Mathiot	1

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Sample Description: **SL-308-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189701
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE066-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201B	01/29/2011 10:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11034621202A	02/04/2011 08:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201B	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

Sample Description: SL-308-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE066-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	83		6.4	7.7		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	11		1.2	7.7		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.87
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.8		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.7		0.87
06192	Methylene Chloride	75-09-2	0.49	J	0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

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Sample Description: SL-308-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE066-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.09	J	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	31.7	J	18.4	36.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100		1

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Sample Description: SL-308-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE066-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.5	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-308-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE066-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	4.8		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	6.1		0.73	1.8		1
10138	Naphthalene	91-20-3	3.1		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.6	J	0.73	1.8		1
10138	Pyrene	129-00-0	0.91	J	0.73	1.8		1
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

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E6602 SDG#: DE066-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	18,000		6,600	17,000		10
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.67	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.6		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	6.9		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	6.6	U	6.6	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-308-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE066-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for ethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,200		5.48	21.8		1
07914	Boron	7440-42-8	2.51	J	0.970	5.45		1
01650	Calcium	7440-70-2	5,820		6.68	21.8		1
01654	Iron	7439-89-6	20,600		5.14	21.8		1
01656	Lithium	7439-93-2	21.0		0.24	2.2		1
01657	Magnesium	7439-95-4	3,810		2.77	10.9		1
06958	Manganese	7439-96-5	1,490		0.425	2.73		5
10145	Phosphorus	7723-14-0	495		0.611	10.9		1
01662	Potassium	7440-09-7	2,870		19.6	54.5		1
01667	Sodium	7440-23-5	101	J	40.7	109		1
07968	Strontium	7440-24-6	24.7		0.0676	0.545		1
06969	Tin	7440-31-5	1.79	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,270		0.410	1.08		1
10146	Zirconium	7440-67-7	2.30	J	0.916	5.45		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0629	U	0.0629	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.00		0.0839	0.420		2
06126	Barium	7440-39-3	100		0.113	0.420		2
06127	Beryllium	7440-41-7	0.549		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.156		0.0420	0.105		2
06131	Chromium	7440-47-3	20.9		0.126	0.420		2
06132	Cobalt	7440-48-4	5.50		0.0210	0.105		2
06133	Copper	7440-50-8	9.62		0.0692	0.420		2
06135	Lead	7439-92-1	5.39		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.489		0.0524	0.105		2
06139	Nickel	7440-02-0	12.4		0.105	0.420		2
06141	Selenium	7782-49-2	0.105	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0309	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.241		0.0315	0.105		2
06148	Vanadium	7440-62-2	35.1		0.0231	0.105		2
06149	Zinc	7440-66-6	48.6		0.587	3.15		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1

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Sample Description: **SL-308-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6602 SDG#: DE066-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	409		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-308-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011	19:32	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	11:16	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011	14:30	Christopher D Meeks	n.a.

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LLI Sample # SW 6189702
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E6602 SDG#: DE066-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011 15:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011 15:01	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011 14:30	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 15:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 01:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/02/2011 00:11	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/26/2011 00:56	Marie D John	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:30	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 07:24	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 22:01	James H Place	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 17:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	3	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 01:00	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 04:38	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 12:18	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 17:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/31/2011 11:54	Eric L Eby	5
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1

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Sample Description: SL-308-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE066-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 10:03	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 17:10	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:23	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:23	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:23	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:23	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:23	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 00:59	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 00:59	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 00:59	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:23	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:23	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 00:59	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/02/2011 15:23	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:23	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:23	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 00:59	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:23	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 14:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033202A	02/04/2011 14:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11034621202A	02/09/2011 03:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243201A	02/09/2011 00:46	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201B	01/29/2011 10:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1

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Sample Description: **SL-308-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189702
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE066-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621202A	02/08/2011 12:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201B	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-308-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189703
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE066-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	50		6.9	8.2		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	5.1	J	1.3	8.2		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.93
06192	Methylene Chloride	75-09-2	0.41	J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

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Sample Description: **SL-308-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189703
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE066-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	9.0	J	4.8	15		21.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	52.9		18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1

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Sample Description: SL-308-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189703
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE066-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1

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Sample Description: SL-308-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189703
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE066-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.93	J	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	J	0.2	1.1		24.75
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189703
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E6603 SDG#: DE066-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	6,800		660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.3		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.79	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	2.6		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	5.2		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	10		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	1,300		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various							

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SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189703
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE066-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,700		5.55	22.1		1
07914	Boron	7440-42-8	1.64	J	0.982	5.52		1
01650	Calcium	7440-70-2	3,040		6.77	22.1		1
01654	Iron	7439-89-6	16,800		5.20	22.1		1
01656	Lithium	7439-93-2	24.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,950		2.80	11.0		1
06958	Manganese	7439-96-5	214		0.0861	0.552		1
10145	Phosphorus	7723-14-0	360		0.618	11.0		1
01662	Potassium	7440-09-7	2,850		19.9	55.2		1
01667	Sodium	7440-23-5	123		41.2	110		1
07968	Strontium	7440-24-6	15.1		0.0684	0.552		1
06969	Tin	7440-31-5	2.02	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,180		0.407	1.07		1
10146	Zirconium	7440-67-7	1.55	J	0.927	5.52		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0878	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.74		0.0883	0.442		2
06126	Barium	7440-39-3	88.3		0.119	0.442		2
06127	Beryllium	7440-41-7	0.477		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.0662	J	0.0442	0.110		2
06131	Chromium	7440-47-3	19.3		0.132	0.442		2
06132	Cobalt	7440-48-4	6.24		0.0221	0.110		2
06133	Copper	7440-50-8	10.3		0.0728	0.442		2
06135	Lead	7439-92-1	7.03		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.470		0.0552	0.110		2
06139	Nickel	7440-02-0	11.7		0.110	0.442		2
06141	Selenium	7782-49-2	0.136	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0249	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.285		0.0331	0.110		2
06148	Vanadium	7440-62-2	35.7		0.0243	0.110		2
06149	Zinc	7440-66-6	60.1		0.618	3.31		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-308-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189703
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE066-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	395		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-308-SA5B-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011	19:55	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	11:36	Jason M Long	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011	14:35	Christopher D Meeks	n.a.

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Laboratory Sample Analysis Record

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07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011 15:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011 15:01	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011 14:35	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 15:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 02:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/02/2011 00:44	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/26/2011 01:33	Marie D John	24.75
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:35	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 08:06	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 19:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 17:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	3	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 01:25	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 05:22	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 12:35	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 17:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1

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SL-308-SA5B-SB-14.0-15.0

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Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE066-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 10:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 17:14	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:33	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:33	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:33	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:33	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:33	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 01:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 01:07	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 01:07	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:33	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:33	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 01:07	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/02/2011 15:33	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:33	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:33	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 01:07	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:33	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 15:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033202A	02/04/2011 15:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621202A	02/04/2011 12:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243201A	02/09/2011 01:05	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201B	01/29/2011 10:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-308-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189703
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE066-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11034621202A	02/04/2011 08:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201B	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11026182101B	01/26/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039401B	01/26/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB25-SA5B-012111 Water**
SSFL Area IV Collocated Soil Sampling
EB25-SA5B-012111

LLI Sample # WW 6189704
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 12:30

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6604 SDG#: DE066-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.39		0.531	1.06		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 3.39 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and N-Nitrosodimethylamine was again detected in the method blank at a concentration of 1.7 ng/l and the sample at a concentration of 2.69 ng/l. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB25-SA5B-012111 Water**
SSFL Area IV Collocated Soil Sampling
EB25-SA5B-012111

LLI Sample # WW 6189704
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 12:30

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6604 SDG#: DE066-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	17b Formaldehyde by 8315A	50-00-0	10	J	10	50		1
	Formaldehyde was detected in the method blank at a concentration of 12 ug/l. The sample was reextracted. Formaldehyde was detected in the reextracted method blank at 29 ug/l. The hold time had expired prior to the reextraction so all results are reported from the original extract. Formaldehyde was detected at a concentraction of 10 ug/l in the original extraction and nondetect in the reextraction.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.63		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	12	U	12	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.084	U	0.084	0.26		1
10319	o-Terphenyl	84-15-1	0.084	U	0.084	0.26		1
10319	p-Terphenyl	92-94-4	0.084	U	0.084	0.26		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	The method requirement for Nitrate Nitrogen is a Continuing Calibration Verification standard (CCV) and Continuing Calibration Blank (CCB) must be analyzed every 10 samples. For the reported result, 12 samples were analyzed between CCV/CCB pairs. The sample was repeated outside of the 48 hour holding time with a result of ND at a MDL of 0.05 mg/l.							
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB25-SA5B-012111 Water**
SSFL Area IV Collocated Soil Sampling
EB25-SA5B-012111

LLI Sample # WW 6189704
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 12:30

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6604 SDG#: DE066-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	21b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	6.2	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	19b NDMA by 1625C	EPA 1625C	1	11025WAI026	01/29/2011 23:45	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11025WAI026	01/26/2011 03:45	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11027A20A	01/27/2011 18:39	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11027A20A	01/27/2011 18:39	Butch A Sokolowski	1
10131	20b Energetics by 8330A	SW-846 8330A	1	110240033A	01/26/2011 20:30	Michele D Hamilton	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	110240005A	01/24/2011 20:07	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110240005A	01/24/2011 13:50	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	110240033A	01/25/2011 08:30	Deborah M Zimmerman	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110240035A	01/28/2011 07:41	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	110270020A	01/28/2011 10:07	Tyler O Griffin	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	110240002A	01/26/2011 19:18	Dustin A Underkoffler	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	110240013A	01/29/2011 08:07	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	110240035A	01/25/2011 07:30	Kerrie A Freeburn	1
10304	Terphenyls water prep	SW-846 3510C	1	110240013A	01/24/2011 16:30	Timothy J Attenberger	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11022373901A	01/22/2011 13:03	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	11033117101C	02/02/2011 19:48	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11033117101C	02/02/2011 11:00	Nancy J Shoop	1
00200	22b pH by 9040B	SW-846 9040B	1	11024020001A	01/24/2011 21:30	Luz M Groff	1

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Analysis Report

Sample Description: SL-253-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189705
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.83
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	0.39	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189705
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.55
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-253-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189705
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

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Sample Description: SL-253-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189705
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,600		5.70	22.7		1
07914	Boron	7440-42-8	1.49	J	1.01	5.67		1
01650	Calcium	7440-70-2	3,320		6.95	22.7		1
01654	Iron	7439-89-6	27,900		5.34	22.7		1
01656	Lithium	7439-93-2	33.6		0.25	2.3		1
01657	Magnesium	7439-95-4	4,810		2.88	11.3		1
06958	Manganese	7439-96-5	406		0.0884	0.567		1
10145	Phosphorus	7723-14-0	180		0.635	11.3		1
01662	Potassium	7440-09-7	1,890		20.4	56.7		1
01667	Sodium	7440-23-5	147		42.3	113		1
07968	Strontium	7440-24-6	30.6		0.0703	0.567		1
06969	Tin	7440-31-5	2.79	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,530		0.427	1.12		1
10146	Zirconium	7440-67-7	3.26	J	0.952	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0924	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.53		0.0898	0.449		2
06126	Barium	7440-39-3	141		0.121	0.449		2
06127	Beryllium	7440-41-7	0.935		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.154		0.0449	0.112		2
06131	Chromium	7440-47-3	32.4		0.135	0.449		2
06132	Cobalt	7440-48-4	7.70		0.0224	0.112		2
06133	Copper	7440-50-8	14.1		0.0741	0.449		2
06135	Lead	7439-92-1	7.43		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.449		0.0561	0.112		2

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Sample Description: SL-253-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189705
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

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Suite 210
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E6605 SDG#: DE066-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	19.3	0.112	0.449		2
06141	Selenium	7782-49-2	0.199 J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0562 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.334	0.0337	0.112		2
06148	Vanadium	7440-62-2	58.1	0.0247	0.112		2
06149	Zinc	7440-66-6	51.8	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	476	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.14	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-253-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-253-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189705
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
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E6605 SDG#: DE066-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 20:17	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 11:55	Jason M Long	21.55
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:38	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011 14:38	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/28/2011 23:56	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/01/2011 22:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 17:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 09:27	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 16:35	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:01	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:01	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:01	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:01	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:01	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 00:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 00:42	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 00:42	David K Beck	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189705
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E6605 SDG#: DE066-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:01	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:01	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 00:42	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/03/2011 00:42	David K Beck	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:01	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:01	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 00:42	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:01	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 13:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621202A	02/04/2011 10:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243201A	02/09/2011 01:17	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11034621202A	02/04/2011 08:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189706
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	130	6.5	7.7		0.84
06192	Benzene	71-43-2	19	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	15	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	21	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	18	0.08	3.9		0.84
06192	Bromoform	75-25-2	18	0.39	3.9		0.84
06192	Bromomethane	74-83-9	14	0.24	3.9		0.84
06192	2-Butanone	78-93-3	100	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	12	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	13	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	13	0.15	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	21	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	17	0.11	3.9		0.84
06192	Chloroethane	75-00-3	14	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	14	0.29	3.9		0.84
06192	Chloroform	67-66-3	20	0.12	3.9		0.84
06192	Chloromethane	74-87-3	15	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	14	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	14	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	31	0.45	4.5		0.78
06192	1,2-Dibromo-3-chloropropane	96-12-8	12	0.68	3.9		0.84
06192	Dibromochloromethane	124-48-1	19	0.19	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	17	0.16	3.9		0.84
06192	Dibromomethane	74-95-3	19	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	15	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	14	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	14	0.15	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	14	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	19	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	19	0.15	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	21	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	20	0.18	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	17	0.16	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	16	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	20	0.16	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	18	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	15	0.15	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	15	0.16	3.9		0.84
06192	Ethylbenzene	100-41-4	15	0.06	3.9		0.84
06192	Freon 113	76-13-1	22	0.11	3.9		0.84
06192	Freon 133a	75-88-7	19	0.45	4.5		0.78
06192	Hexachlorobutadiene	87-68-3	12	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	47	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	15	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	13	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	17	0.20	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	53	0.38	7.7		0.84
06192	Methylene Chloride	75-09-2	19	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	14	0.07	3.9		0.84

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Sample Description: SL-253-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189706
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	16		0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	15		0.22	3.9		0.84
06192	Tetrachloroethene	127-18-4	19		0.19	3.9		0.84
06192	Toluene	108-88-3	18		0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	9.9		0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	9.0		0.17	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	23		0.19	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	18		0.26	3.9		0.84
06192	Trichloroethene	79-01-6	19		0.15	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	18		0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	16		0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	14		0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	14		0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	15		0.19	3.9		0.84
06192	m+p-Xylene	179601-23-1	33		0.16	3.9		0.84
06192	o-Xylene	95-47-6	14		0.16	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110		5.2	16		22.6
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,900		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,300		190	580		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	2,500	J	1,300	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	2,000		190	580		1
04688	Benzyl alcohol	100-51-6	1,800		190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		39	190		1
04688	4-Chloroaniline	106-47-8	1,200		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		39	190		1
04688	Chrysene	218-01-9	1,900		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1

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Sample Description: SL-253-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189706
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,700	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	39	190		1
04688	3,5-Dimethylphenol	108-68-9	2,100	39	190		1
04688	Dimethylphthalate	131-11-3	1,900	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,700	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	390		1
04688	Fluoranthene	206-44-0	1,900	19	190		1
04688	Fluorene	86-73-7	1,900	19	190		1
04688	Hexachlorobenzene	118-74-1	1,900	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,800	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,800	190	580		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,900	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,900	39	190		1
04688	4-Methylphenol	106-44-5	1,700	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	39	190		1
04688	4-Nitroaniline	100-01-6	1,600	77	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,800	19	190		1
04688	4-Nitrophenol	100-02-7	1,300	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,200	190	580		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	2,000	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	39	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-253-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189706
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,900		39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	36		0.77	1.9		1
10138	Acenaphthylene	208-96-8	34		0.39	1.9		1
10138	Anthracene	120-12-7	37		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	36		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	40		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	40		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	39		6.9	21		1
10138	Di-n-butylphthalate	84-74-2	39		6.9	21		1
10138	Chrysene	218-01-9	37		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	38		0.77	1.9		1
10138	Diethylphthalate	84-66-2	36		6.9	21		1
10138	Dimethylphthalate	131-11-3	37		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.9	21		1
10138	Fluoranthene	206-44-0	41		0.77	1.9		1
10138	Fluorene	86-73-7	38		0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	33		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	31		0.77	1.9		1
10138	Naphthalene	91-20-3	35		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	40		6.9	21		1
10138	Phenanthrene	85-01-8	37		0.77	1.9		1
10138	Pyrene	129-00-0	35		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	15		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	25		0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,300		5.65	22.4		1
07914	Boron	7440-42-8	206		0.999	5.61		1
01650	Calcium	7440-70-2	3,330		6.88	22.4		1
01654	Iron	7439-89-6	23,200		5.29	22.4		1
01656	Lithium	7439-93-2	151		0.25	2.2		1

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189706
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	5,160	2.85	11.2		1
06958	Manganese	7439-96-5	205	0.0875	0.561		1
10145	Phosphorus	7723-14-0	257	0.629	11.2		1
01662	Potassium	7440-09-7	2,590	20.2	56.1		1
01667	Sodium	7440-23-5	1,240	41.9	112		1
07968	Strontium	7440-24-6	133	0.0696	0.561		1
06969	Tin	7440-31-5	396	1.12	11.2		1
06970	Titanium	7440-32-6	1,760	0.431	1.13		1
10146	Zirconium	7440-67-7	111	0.943	5.61		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.364	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.34	0.0898	0.449		2
06126	Barium	7440-39-3	109	0.121	0.449		2
06127	Beryllium	7440-41-7	1.60	0.0180	0.112		2
06128	Cadmium	7440-43-9	1.09	0.0449	0.112		2
06131	Chromium	7440-47-3	40.8	0.135	0.449		2
06132	Cobalt	7440-48-4	71.4	0.0224	0.112		2
06133	Copper	7440-50-8	26.9	0.0741	0.449		2
06135	Lead	7439-92-1	11.7	0.0117	0.224		2
06138	Molybdenum	7439-98-7	9.99	0.0561	0.112		2
06139	Nickel	7440-02-0	30.7	0.112	0.449		2
06141	Selenium	7782-49-2	2.09	0.0449	0.449		2
06142	Silver	7440-22-4	10.6	0.0135	0.112		2
06145	Thallium	7440-28-0	0.637	0.0337	0.112		2
06148	Vanadium	7440-62-2	66.6	0.0247	0.112		2
06149	Zinc	7440-66-6	62.0	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.189	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.1	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	554	10.4	34.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	43.1	1.2	5.8		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50		1

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Sample Description: **SL-253-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189706
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-253-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 20:39	Chelsea B Eastep	0.84
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 21:24	Chelsea B Eastep	0.78
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 12:15	Jason M Long	22.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:40	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011 14:40	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 00:21	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/01/2011 22:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 18:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 09:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 16:47	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:11	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:11	Parker D Lindstrom	2

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Sample Description: **SL-253-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189706
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:11	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:11	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:11	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 00:50	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 00:50	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 00:50	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:11	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:11	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 00:50	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/03/2011 00:50	David K Beck	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:11	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:11	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 00:50	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:11	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 14:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621202A	02/04/2011 11:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243201A	02/09/2011 01:23	James S Mathiot	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11034621202A	02/04/2011 08:25	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-253-SA5B-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189707
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	200	7.3	8.7		0.94
06192	Benzene	71-43-2	22	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	18	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	24	0.36	4.3		0.94
06192	Bromodichloromethane	75-27-4	20	0.09	4.3		0.94
06192	Bromoform	75-25-2	20	0.43	4.3		0.94
06192	Bromomethane	74-83-9	15	0.27	4.3		0.94
06192	2-Butanone	78-93-3	140	1.3	8.7		0.94
06192	n-Butylbenzene	104-51-8	15	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	16	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	16	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	24	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	20	0.12	4.3		0.94
06192	Chloroethane	75-00-3	14	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.33	4.3		0.94
06192	Chloroform	67-66-3	22	0.13	4.3		0.94
06192	Chloromethane	74-87-3	15	0.36	4.3		0.94
06192	2-Chlorotoluene	95-49-8	17	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	17	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	35	0.54	5.4		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.76	4.3		0.94
06192	Dibromochloromethane	124-48-1	20	0.22	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	21	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	18	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	17	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	18	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	15	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	21	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	20	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	23	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	23	0.21	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	20	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	18	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	22	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	21	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	18	0.06	4.3		0.94
06192	Freon 113	76-13-1	24	0.12	4.3		0.94
06192	Freon 133a	75-88-7	21	0.54	5.4		0.93
06192	Hexachlorobutadiene	87-68-3	15	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	60	1.7	8.7		0.94
06192	Isopropylbenzene	98-82-8	18	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	16	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.23	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	62	0.42	8.7		0.94
06192	Methylene Chloride	75-09-2	20	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	17	0.08	4.3		0.94

*=This limit was used in the evaluation of the final result
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Sample Description: SL-253-SA5B-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189707
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	19		0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	21		0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	22		0.22	4.3		0.94
06192	Toluene	108-88-3	21		0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	13		0.20	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	23		0.22	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	20		0.29	4.3		0.94
06192	Trichloroethene	79-01-6	22		0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	19		0.32	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	18		0.36	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	16		0.22	4.3		0.94
06192	m+p-Xylene	179601-23-1	39		0.18	4.3		0.94
06192	o-Xylene	95-47-6	18		0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	130		6.1	18		26.37
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,000		190	580		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	1,700	J	1,300	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,900		190	580		1
04688	Benzyl alcohol	100-51-6	1,700		190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		39	190		1
04688	4-Chloroaniline	106-47-8	1,000		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		39	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5B-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189707
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	39	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000	39	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,700	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	390		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,800	19	190		1
04688	Hexachlorobenzene	118-74-1	1,900	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,600	190	580		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	39	190		1
04688	4-Methylphenol	106-44-5	1,600	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,700	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	39	190		1
04688	4-Nitroaniline	100-01-6	1,500	77	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,300	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,200	190	580		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,700	19	190		1
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	39	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5B-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189707
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	36		0.77	1.9		1
10138	Acenaphthylene	208-96-8	35		0.39	1.9		1
10138	Anthracene	120-12-7	36		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	36		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	41		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	37		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	38		6.9	21		1
10138	Di-n-butylphthalate	84-74-2	37		6.9	21		1
10138	Chrysene	218-01-9	37		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	35		0.77	1.9		1
10138	Diethylphthalate	84-66-2	37		6.9	21		1
10138	Dimethylphthalate	131-11-3	41		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43		6.9	21		1
10138	Fluoranthene	206-44-0	40		0.77	1.9		1
10138	Fluorene	86-73-7	39		0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	38		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	34		0.77	1.9		1
10138	Naphthalene	91-20-3	36		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	38		6.9	21		1
10138	Phenanthrene	85-01-8	36		0.77	1.9		1
10138	Pyrene	129-00-0	36		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	17		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	26		0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	24,000		5.54	22.0		1
07914	Boron	7440-42-8	202		0.980	5.51		1
01650	Calcium	7440-70-2	3,330		6.75	22.0		1
01654	Iron	7439-89-6	23,700		5.19	22.0		1
01656	Lithium	7439-93-2	148		0.24	2.2		1

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Sample Description: **SL-253-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189707
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	5,100	2.80	11.0		1
06958	Manganese	7439-96-5	217	0.0859	0.551		1
10145	Phosphorus	7723-14-0	281	0.617	11.0		1
01662	Potassium	7440-09-7	2,510	19.8	55.1		1
01667	Sodium	7440-23-5	1,220	41.1	110		1
07968	Strontium	7440-24-6	129	0.0683	0.551		1
06969	Tin	7440-31-5	387	1.10	11.0		1
06970	Titanium	7440-32-6	1,760	0.427	1.12		1
10146	Zirconium	7440-67-7	109	0.925	5.51		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.410	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.23	0.0907	0.453		2
06126	Barium	7440-39-3	108	0.122	0.453		2
06127	Beryllium	7440-41-7	1.59	0.0181	0.113		2
06128	Cadmium	7440-43-9	1.16	0.0453	0.113		2
06131	Chromium	7440-47-3	40.6	0.136	0.453		2
06132	Cobalt	7440-48-4	65.1	0.0227	0.113		2
06133	Copper	7440-50-8	26.0	0.0748	0.453		2
06135	Lead	7439-92-1	9.95	0.0118	0.227		2
06138	Molybdenum	7439-98-7	9.85	0.0567	0.113		2
06139	Nickel	7440-02-0	29.3	0.113	0.453		2
06141	Selenium	7782-49-2	2.01	0.0453	0.453		2
06142	Silver	7440-22-4	10.6	0.0136	0.113		2
06145	Thallium	7440-28-0	0.686	0.0340	0.113		2
06148	Vanadium	7440-62-2	63.8	0.0249	0.113		2
06149	Zinc	7440-66-6	60.4	0.635	3.40		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.190	0.0032	0.112		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-253-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-253-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189707
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 21:02	Chelsea B Eastep	0.94
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 21:47	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 12:35	Jason M Long	26.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011 14:43	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 00:46	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/01/2011 23:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 18:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 09:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 16:51	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:14	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:14	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:14	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:14	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:14	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 00:52	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 00:52	David K Beck	2

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Sample Description: **SL-253-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189707
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 00:52	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:14	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:14	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 00:52	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/03/2011 00:52	David K Beck	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:14	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:14	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 00:52	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:14	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5B-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189708
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,700		5.70	22.7		1
07914	Boron	7440-42-8	1.51	J	1.01	5.67		1
01650	Calcium	7440-70-2	3,180		6.95	22.7		1
01654	Iron	7439-89-6	26,900		5.34	22.7		1
01656	Lithium	7439-93-2	31.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,610		2.88	11.3		1
06958	Manganese	7439-96-5	340		0.0884	0.567		1
10145	Phosphorus	7723-14-0	184		0.635	11.3		1
01662	Potassium	7440-09-7	1,840		20.4	56.7		1
01667	Sodium	7440-23-5	140		42.3	113		1
07968	Strontium	7440-24-6	29.1		0.0703	0.567		1
06969	Tin	7440-31-5	2.47	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,490		0.435	1.14		1
10146	Zirconium	7440-67-7	3.78	J	0.952	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.30		0.0907	0.453		2
06126	Barium	7440-39-3	145		0.122	0.453		2
06127	Beryllium	7440-41-7	0.850		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.153		0.0453	0.113		2
06131	Chromium	7440-47-3	32.1		0.136	0.453		2
06132	Cobalt	7440-48-4	7.64		0.0227	0.113		2
06133	Copper	7440-50-8	13.8		0.0748	0.453		2
06135	Lead	7439-92-1	7.48		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.433		0.0567	0.113		2
06139	Nickel	7440-02-0	19.3		0.113	0.453		2
06141	Selenium	7782-49-2	0.199	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0575	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.277		0.0340	0.113		2
06148	Vanadium	7440-62-2	55.1		0.0249	0.113		2
06149	Zinc	7440-66-6	53.9		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.84	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5B-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189708
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		mV	mV	mV	mV	
01821	32a OR Potential	n.a.	476	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.14	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	14.1	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 09:36	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 16:43	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:07	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:07	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:07	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-253-SA5B-SB-3.0-4.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189708
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE066-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:07	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:07	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 00:47	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 00:47	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 00:47	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:07	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:07	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 00:47	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/03/2011 00:47	David K Beck	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:07	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:07	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 00:47	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:07	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 14:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621202A	02/04/2011 10:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243201A	02/09/2011 02:13	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11034621202A	02/04/2011 08:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-254-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189709
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE066-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.97
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.97
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.97
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.97
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.97
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.97
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.97
06192	Methylene Chloride	75-09-2	0.45	J	0.26	4.3		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.97

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-254-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189709
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE066-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.97
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		26.32
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189709
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE066-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-254-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189709
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE066-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		5.35	21.3		1
07914	Boron	7440-42-8	0.947	U	0.947	5.32		1
01650	Calcium	7440-70-2	3,440		6.52	21.3		1
01654	Iron	7439-89-6	27,700		5.01	21.3		1
01656	Lithium	7439-93-2	48.2		0.23	2.1		1
01657	Magnesium	7439-95-4	6,850		2.70	10.6		1
06958	Manganese	7439-96-5	348		0.0830	0.532		1
10145	Phosphorus	7723-14-0	410		0.596	10.6		1
01662	Potassium	7440-09-7	2,110		19.1	53.2		1
01667	Sodium	7440-23-5	160		39.7	106		1
07968	Strontium	7440-24-6	25.9		0.0659	0.532		1
06969	Tin	7440-31-5	2.66	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,580		0.404	1.06		1
10146	Zirconium	7440-67-7	1.39	J	0.893	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0746	J	0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.31		0.0876	0.438		2
06126	Barium	7440-39-3	144		0.118	0.438		2
06127	Beryllium	7440-41-7	0.941		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.112		0.0438	0.110		2
06131	Chromium	7440-47-3	39.6		0.131	0.438		2
06132	Cobalt	7440-48-4	20.7		0.0219	0.110		2
06133	Copper	7440-50-8	24.9		0.0723	0.438		2
06135	Lead	7439-92-1	14.8		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.331		0.0548	0.110		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189709
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE066-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	39.3	0.110	0.438		2
06141	Selenium	7782-49-2	0.0618 J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0303 J	0.0131	0.110		2
06145	Thallium	7440-28-0	0.386	0.0329	0.110		2
06148	Vanadium	7440-62-2	67.7	0.0241	0.110		2
06149	Zinc	7440-66-6	87.8	0.613	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0043 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	487	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.90	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-254-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-254-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189709
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE066-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 22:09	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 13:14	Jason M Long	26.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011 14:45	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 02:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/02/2011 01:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 18:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	02/01/2011 08:40	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 10:11	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 17:18	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:36	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:36	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:36	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:36	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:36	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 01:09	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 01:09	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 01:09	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-254-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189709
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE066-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:36	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:36	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 01:09	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/02/2011 15:36	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:36	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:36	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 01:09	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:36	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 15:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621202A	02/04/2011 13:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243201A	02/09/2011 02:25	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11034621202A	02/04/2011 08:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP20-SA5B-QC-012111 Soil
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189710
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE066-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	0.41	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189710
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE066-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.05
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189710
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE066-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

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Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189710
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE066-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58	U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60	U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58	U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,200		5.60	22.3		1
07914	Boron	7440-42-8	1.77	J	0.990	5.56		1
01650	Calcium	7440-70-2	3,110		6.82	22.3		1
01654	Iron	7439-89-6	29,400		5.24	22.3		1
01656	Lithium	7439-93-2	30.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,750		2.83	11.1		1
06958	Manganese	7439-96-5	647		0.0868	0.556		1
10145	Phosphorus	7723-14-0	217		0.623	11.1		1
01662	Potassium	7440-09-7	2,170		20.0	55.6		1
01667	Sodium	7440-23-5	136		41.5	111		1
07968	Strontium	7440-24-6	30.7		0.0690	0.556		1
06969	Tin	7440-31-5	2.29	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,500		0.431	1.13		1
10146	Zirconium	7440-67-7	3.20	J	0.935	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0711	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.08		0.0908	0.454		2
06126	Barium	7440-39-3	160		0.123	0.454		2
06127	Beryllium	7440-41-7	0.910		0.0182	0.113		2
06128	Cadmium	7440-43-9	0.234		0.0454	0.113		2
06131	Chromium	7440-47-3	32.9		0.136	0.454		2
06132	Cobalt	7440-48-4	10.8		0.0227	0.113		2
06133	Copper	7440-50-8	14.1		0.0749	0.454		2
06135	Lead	7439-92-1	8.38		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.530		0.0567	0.113		2

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Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189710
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE066-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	22.1	0.113	0.454		2
06141	Selenium	7782-49-2	0.155 J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0524 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.374	0.0340	0.113		2
06148	Vanadium	7440-62-2	58.9	0.0250	0.113		2
06149	Zinc	7440-66-6	60.2	0.635	3.40		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	531	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.87	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189710
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6607 SDG#: DE066-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011 22:32	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 13:33	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011 14:48	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 02:51	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/02/2011 01:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 19:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 10:15	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 17:22	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:39	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:39	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:39	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:39	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:39	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 01:12	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 01:12	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 01:12	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189710
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE066-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:39	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:39	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 01:12	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/02/2011 15:39	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:39	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:39	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 01:12	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:39	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 15:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11034621202A	02/09/2011 03:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243201A	02/09/2011 02:44	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621202A	02/08/2011 12:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-307-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE066-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	22		6.9	8.3		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	2.5	J	1.3	8.3		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.93
06192	Methylene Chloride	75-09-2	0.40	J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

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Sample Description: SL-307-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE066-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.2	U	4.2	13		19.14
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.5	U	18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1

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Sample Description: SL-307-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE066-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE066-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-307-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE066-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	10,000		1,300	3,300		2
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58	U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.50	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	2.8		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1

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Sample Description: **SL-307-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE066-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,700		5.36	21.3		1
07914	Boron	7440-42-8	1.37	J	0.949	5.33		1
01650	Calcium	7440-70-2	2,260		6.53	21.3		1
01654	Iron	7439-89-6	26,900		5.02	21.3		1
01656	Lithium	7439-93-2	23.1		0.23	2.1		1
01657	Magnesium	7439-95-4	4,290		2.71	10.7		1
06958	Manganese	7439-96-5	254		0.0831	0.533		1
10145	Phosphorus	7723-14-0	234		0.597	10.7		1
01662	Potassium	7440-09-7	1,700		19.2	53.3		1
01667	Sodium	7440-23-5	191		39.8	107		1
07968	Strontium	7440-24-6	25.7		0.0661	0.533		1
06969	Tin	7440-31-5	2.45	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,350		0.413	1.09		1
10146	Zirconium	7440-67-7	2.09	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	U	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.78		0.0878	0.439		2
06126	Barium	7440-39-3	100		0.119	0.439		2
06127	Beryllium	7440-41-7	0.765		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0439	U	0.0439	0.110		2
06131	Chromium	7440-47-3	23.5		0.132	0.439		2
06132	Cobalt	7440-48-4	7.43		0.0220	0.110		2
06133	Copper	7440-50-8	8.11		0.0724	0.439		2
06135	Lead	7439-92-1	6.07		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.523		0.0549	0.110		2
06139	Nickel	7440-02-0	12.4		0.110	0.439		2
06141	Selenium	7782-49-2	0.127	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0356	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.246		0.0329	0.110		2
06148	Vanadium	7440-62-2	47.4		0.0241	0.110		2
06149	Zinc	7440-66-6	39.1		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0623	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1

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SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6608 SDG#: DE066-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	497		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.28		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-307-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110241AA	01/24/2011	22:54	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	13:53	Jason M Long	19.14
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011	14:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011	15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011	15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011	14:51	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011	15:46	Timothy J Trees	1

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Sample Description: SL-307-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
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E6608 SDG#: DE066-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 03:16	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/02/2011 02:18	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/26/2011 02:09	Marie D John	22.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:50	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 08:49	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 22:11	James H Place	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 19:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/04/2011 22:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 06:21	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 12:52	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 14:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 10:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 17:26	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:42	Parker D Lindstrom	2

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Sample Description: SL-307-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E6608 SDG#: DE066-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:42	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:42	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:42	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:42	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 01:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 01:14	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 01:14	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:42	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:42	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 01:14	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/02/2011 15:42	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:42	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:42	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 01:14	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:42	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 16:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033202A	02/04/2011 16:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11034621202A	02/09/2011 04:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243201A	02/09/2011 02:57	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201B	01/29/2011 10:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11034621202A	02/08/2011 12:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201B	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-307-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189711
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE066-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	31		7.1	8.5		0.88
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.88
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.88
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.88
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.88
06192	2-Butanone	78-93-3	4.2	J	1.3	8.5		0.88
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.88
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.88
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.88
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.88
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.88
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.88
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.88
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.88
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.88
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.88
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.88
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.88
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.88
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.88
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.88
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.88
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.88
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.88
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.88
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.88
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.88
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.88
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.88
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.88
06192	Methylene Chloride	75-09-2	0.60	J	0.25	4.2		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.88

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Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.88
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.88
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.88
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.88
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.88
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.88
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		21.63
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.5	J	20.1	40.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	810	U	810	1,200		1

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Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	7.2	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		20.87
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	97	U	97	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	97	U	97	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	970	U	970	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	97	U	97	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	97	U	97	140	10000000	1
10132	PETN	78-11-5	970	U	970	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	74	U	74	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1

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Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	2,400		720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.1		1
10225	PCB-1232	11141-16-5	0.63	U	0.63	2.1		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1

The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1

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Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,800		5.96	23.7		1
07914	Boron	7440-42-8	5.46	J	1.05	5.92		1
01650	Calcium	7440-70-2	8,060		7.26	23.7		1
01654	Iron	7439-89-6	34,900		27.9	118		5
01656	Lithium	7439-93-2	26.3		0.26	2.4		1
01657	Magnesium	7439-95-4	7,340		3.01	11.8		1
06958	Manganese	7439-96-5	358		0.0924	0.592		1
10145	Phosphorus	7723-14-0	263		0.663	11.8		1
01662	Potassium	7440-09-7	3,530		21.3	59.2		1
01667	Sodium	7440-23-5	380		44.2	118		1
07968	Strontium	7440-24-6	38.1		0.0734	0.592		1
06969	Tin	7440-31-5	2.46	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,100		0.454	1.20		1
10146	Zirconium	7440-67-7	5.74	J	0.995	5.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0946	J	0.0725	0.242		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.94		0.0966	0.483		2
06126	Barium	7440-39-3	147		0.130	0.483		2
06127	Beryllium	7440-41-7	0.976		0.0193	0.121		2
06128	Cadmium	7440-43-9	0.182		0.0483	0.121		2
06131	Chromium	7440-47-3	45.5		0.145	0.483		2
06132	Cobalt	7440-48-4	13.8		0.0242	0.121		2
06133	Copper	7440-50-8	19.0		0.0797	0.483		2
06135	Lead	7439-92-1	11.1		0.0126	0.242		2
06138	Molybdenum	7439-98-7	0.639		0.0604	0.121		2
06139	Nickel	7440-02-0	23.9		0.121	0.483		2
06141	Selenium	7782-49-2	0.0891	J	0.0483	0.483		2
06142	Silver	7440-22-4	0.0581	J	0.0145	0.121		2
06145	Thallium	7440-28-0	0.369		0.0362	0.121		2
06148	Vanadium	7440-62-2	79.9		0.0266	0.121		2
06149	Zinc	7440-66-6	65.7		0.676	3.62		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0112	J	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.7		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	501		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.30		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	17.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-307-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011	13:52	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	14:13	Jason M Long	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011	14:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011	15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011	15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011	14:54	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011	16:03	Timothy J Trees	1

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Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 03:41	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/02/2011 02:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/26/2011 02:45	Marie D John	20.87
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:53	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 09:31	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 19:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 19:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/04/2011 22:31	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 06:35	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 13:10	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 15:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	02/01/2011 08:50	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 10:23	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 17:30	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:45	Parker D Lindstrom	2

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Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:45	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:45	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:45	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/02/2011 15:45	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 01:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 01:17	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 01:17	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:45	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:45	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 01:17	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/02/2011 15:45	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:45	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:45	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 01:17	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:45	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 16:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033202A	02/04/2011 16:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621202A	02/04/2011 14:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243201A	02/09/2011 03:03	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201B	01/29/2011 10:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11034621202A	02/04/2011 08:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201B	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-307-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189712
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE066-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-307-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	16		6.5	7.8		0.8
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.8
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.8
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.8
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.8
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.8
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.8
06192	2-Butanone	78-93-3	2.0	J	1.2	7.8		0.8
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.8
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.8
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.8
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.8
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.8
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.8
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.8
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.8
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.8
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.8
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.8
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.8
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.8
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.8
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.8
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.8
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.8
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.8
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.8
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.8
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.8
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.8
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.8
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.8
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.8
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.8
06192	Methylene Chloride	75-09-2	0.42	J	0.24	3.9		0.8
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.8

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Sample Description: SL-307-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.8
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.8
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.8
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.8
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.8
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.8
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.8
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		18.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	157		20.4	40.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	82	U	82	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	820	U	820	1,200		1

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Sample Description: SL-307-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	82	U	82	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.82	U	0.82	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.82	U	0.82	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.82	U	0.82	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	U	0.82	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.82	U	0.82	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.62	J	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.82	U	0.82	2.0		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	U	0.82	2.0		1

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Sample Description: SL-307-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.0		1
10138	Naphthalene	91-20-3	0.82	U	0.82	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	0.82	U	0.82	2.0		1
10138	Pyrene	129-00-0	0.82	U	0.82	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.12
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	73	U	73	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	49	U	49	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	98	U	98	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	98	U	98	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	49	U	49	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	49	U	49	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	49	U	49	150	10000000	1
10132	HMX	2691-41-0	120	U	120	370	10000000	1
10132	Nitrobenzene	98-95-3	49	U	49	150	10000000	1
10132	Nitroglycerin	55-63-0	980	U	980	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	98	U	98	150	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	150	10000000	1
10132	4-Nitrotoluene	99-99-0	98	U	98	150	10000000	1
10132	PETN	78-11-5	980	U	980	2,900	10000000	1
10132	RDX	121-82-4	61	U	61	150	10000000	1
10132	Tetryl	479-45-8	75	U	75	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	49	U	49	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	49	U	49	150	10000000	1

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Sample Description: SL-307-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	4,900		730	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.61	U	0.61	2.1		1
10225	PCB-1232	11141-16-5	0.64	U	0.64	2.1		1
10225	PCB-1242	53469-21-9	0.61	U	0.61	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C21-C30)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	550	J	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1

The LCS recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1

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Sample Description: **SL-307-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,800		6.10	24.2		1
07914	Boron	7440-42-8	7.07		1.08	6.06		1
01650	Calcium	7440-70-2	22,800		7.43	24.2		1
01654	Iron	7439-89-6	32,600		5.71	24.2		1
01656	Lithium	7439-93-2	28.0		0.27	2.4		1
01657	Magnesium	7439-95-4	7,350		3.08	12.1		1
06958	Manganese	7439-96-5	316		0.0945	0.606		1
10145	Phosphorus	7723-14-0	340		0.679	12.1		1
01662	Potassium	7440-09-7	3,630		21.8	60.6		1
01667	Sodium	7440-23-5	316		45.2	121		1
07968	Strontium	7440-24-6	52.4		0.0751	0.606		1
06969	Tin	7440-31-5	2.08	J	1.21	12.1		1
06970	Titanium	7440-32-6	1,620		0.465	1.22		1
10146	Zirconium	7440-67-7	6.03	J	1.02	6.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0788	J	0.0727	0.242		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.61		0.0969	0.485		2
06126	Barium	7440-39-3	132		0.131	0.485		2
06127	Beryllium	7440-41-7	0.819		0.0194	0.121		2
06128	Cadmium	7440-43-9	0.341		0.0485	0.121		2
06131	Chromium	7440-47-3	39.2		0.145	0.485		2
06132	Cobalt	7440-48-4	10.2		0.0242	0.121		2
06133	Copper	7440-50-8	18.1		0.0800	0.485		2
06135	Lead	7439-92-1	9.41		0.0126	0.242		2
06138	Molybdenum	7439-98-7	0.346		0.0606	0.121		2
06139	Nickel	7440-02-0	21.6		0.121	0.485		2
06141	Selenium	7782-49-2	0.126	J	0.0485	0.485		2
06142	Silver	7440-22-4	0.0449	J	0.0145	0.121		2
06145	Thallium	7440-28-0	0.325		0.0364	0.121		2
06148	Vanadium	7440-62-2	71.6		0.0267	0.121		2
06149	Zinc	7440-66-6	65.6		0.679	3.64		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0180	J	0.0034	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.98	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.98	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-307-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.61		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	465		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	18.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-307-SA5B-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110251AA	01/25/2011	14:15	Chelsea B Eastep	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	14:33	Jason M Long	18.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011	14:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102223564	01/22/2011	15:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102223564	01/22/2011	15:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102223564	01/22/2011	14:57	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011	16:36	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-307-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11025SLE026	01/29/2011 04:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11025SLF026	02/02/2011 03:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11025SLF026	01/26/2011 08:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11025SLE026	01/26/2011 08:30	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11024A34A	01/26/2011 03:22	Marie D John	22.12
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102223564	01/22/2011 14:56	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 10:13	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 19:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110270021A	01/31/2011 20:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110270021A	01/28/2011 03:00	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/04/2011 22:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 06:50	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110310023A	02/01/2011 13:27	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110250013A	01/29/2011 16:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110250013A	01/26/2011 02:30	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110310023A	01/31/2011 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
07914	Boron	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
01654	Iron	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
01656	Lithium	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
07968	Strontium	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
06969	Tin	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	110325708001	02/02/2011 10:27	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110265708001	01/29/2011 17:34	John P Hook	1
06124	Antimony	SW-846 6020	1	110261026002A	02/02/2011 15:48	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-307-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110261026002A	02/02/2011 15:48	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110261026002D	02/02/2011 15:48	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110261026002A	02/02/2011 15:48	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110261026002A	02/03/2011 01:19	David K Beck	2
06131	Chromium	SW-846 6020	1	110261026002A	02/03/2011 01:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	110261026002A	02/03/2011 01:19	David K Beck	2
06133	Copper	SW-846 6020	1	110261026002A	02/03/2011 01:19	David K Beck	2
06135	Lead	SW-846 6020	1	110261026002A	02/02/2011 15:48	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110261026002C	02/02/2011 15:48	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110261026002A	02/03/2011 01:19	David K Beck	2
06141	Selenium	SW-846 6020	1	110261026002B	02/02/2011 15:48	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110261026002A	02/02/2011 15:48	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110261026002A	02/02/2011 15:48	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110261026002A	02/03/2011 01:19	David K Beck	2
06149	Zinc	SW-846 6020	1	110261026002A	02/02/2011 15:48	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110265711002	01/27/2011 19:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110265708001	01/27/2011 09:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110325708001	02/01/2011 19:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110261026002	01/27/2011 09:50	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110265711002	01/27/2011 11:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11033033202A	02/04/2011 17:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11033033202A	02/04/2011 17:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11034621202A	02/04/2011 14:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243201A	02/09/2011 03:15	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201B	01/29/2011 10:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11033033202A	02/03/2011 13:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11034621202A	02/04/2011 08:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201B	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243201A	02/03/2011 09:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-307-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189713
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE066-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-012111 Water
SSFL Area IV Collocated Soil Sampling
TB-012111

LLI Sample # WW 6189714
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 08:00

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6611 SDG#: DE066-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-012111 Water**
SSFL Area IV Collocated Soil Sampling
TB-012111

LLI Sample # WW 6189714
LLI Group # 1230154
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 08:00

Submitted: 01/22/2011 10:00
Reported: 02/11/2011 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6611 SDG#: DE066-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110282AA	01/28/2011	03:58	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110251AA	01/25/2011	10:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110251AA	01/25/2011	10:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110282AA	01/28/2011	03:58	Holly Berry	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11027A20A	01/27/2011	19:01	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11027A20A	01/27/2011	19:01	Butch A Sokolowski	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110241AA	Sample number(s): 6189701-6189703,6189705-6189707,6189709-6189711									
Acetone	6.7	U	6.7	8.0	ug/kg	144		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	98		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	88		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	102		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	69		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	106		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	85		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	85		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	81		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	94		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	87		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	76		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	88		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	88		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	158*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	81		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	95		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	91		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	89		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	91		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	63		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	95		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	100		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	90		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	88		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	93		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	82		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	81		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	88		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	97		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	98		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	88		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	73		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	86		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	67		61-134		
Methylene Chloride	0.50	J	0.24	4.0	ug/kg	92		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	88		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	92		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	96		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	84		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106		77-120		
Toluene	0.25	J	0.08	4.0	ug/kg	94		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	80		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	95		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	80		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	88		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	87		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	86		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	71		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	85		80-120		
Batch number: B110251AA	Sample number(s): 6189712-6189713									
Acetone	6.7	U	6.7	8.0	ug/kg	157		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	103		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	91		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	103		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	71		32-162		
2-Butanone	5.1	J	1.2	8.0	ug/kg	110		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	87		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	85		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	82		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	110		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	69		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	82		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	104		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	69		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	152*		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	79		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	94		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	91		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	98		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	106		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	110		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	93		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	90		80-120		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	106		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	84		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	81		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	92		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	99		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	92		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	70		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	91		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	87		75-120		
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	64		61-134		
Methylene Chloride	2.0	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	89		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	96		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	84		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	112		77-120		
Toluene	0.29	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	88		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	79		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	108		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	90		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	89		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	88		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	71		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	88		80-120		
Batch number: E110251AA	Sample number(s): 6189714									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	109	60-132	6	30
Batch number: E110261AA	Sample number(s): 6189701-6189703,6189705-6189707,6189709-6189713									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	106	104	70-130	2	30
Batch number: Y110282AA	Sample number(s): 6189714									
Acetone	6	U	6.	20	ug/l	111	113	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	100	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	104	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	101	98	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	105	102	80-120	3	30
Bromoform	1	U	1.	5	ug/l	99	97	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	118	114	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	98	97	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	100	99	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	106	105	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	99	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	117	114	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	99	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	107	103	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	120	113	60-129	6	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	102	80-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorotoluene	1	U	1.	5	ug/l	101	99	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	52	55	38-136	5	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	104	103	66-120	0	30
Dibromochloromethane	1	U	1.	5	ug/l	98	100	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	99	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	120	117	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	99	79-120	3	30
1,2-Dichloroethane	1	U	1.	5	ug/l	115	112	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	92	80-120	9	30
1,2-Dichloropropane	1	U	1.	5	ug/l	97	95	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	112	106	77-124	6	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	101	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	97	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	103	99	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	116	114	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	82	83	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	97	97	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	96	97	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	104	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	104	99	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	95	93	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	104	103	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	98	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	98	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	96	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	100	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	101	101	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	99	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	110	106	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	101	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	103	99	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	122	116	64-129	6	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	106	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	103	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	97	97	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	97	80-120	1	30

Batch number: 11025SLE026 Sample number(s): 6189701-6189703,6189705-6189707,6189709-6189713

Acenaphthene	17 U	17.	170	ug/kg	96	76-111	
Acenaphthylene	17 U	17.	170	ug/kg	98	75-122	
Aniline	170 U	170.	500	ug/kg	59	10-107	
Anthracene	17 U	17.	170	ug/kg	97	76-112	
Benzidine	1,200 U	1,200.	3,300	ug/kg	35	15-121	

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(a)anthracene	17	U	17.	170	ug/kg	100		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	86		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	88		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	90		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	86		67-125		
Benzoic acid	170	U	170.	500	ug/kg	108		10-154		
Benzyl alcohol	170	U	170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	99		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	96		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	17	U	17.	170	ug/kg	99		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	89		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	80		38-105		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	73		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	66		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	97		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	97		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	71		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	89		64-119		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	97		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	89		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	99		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	87		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitroaniline	67	U	67.	170	ug/kg	81		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	71		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	86		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	89		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	68		35-106		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	94		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 11025SLF026	Sample number(s): 6189701-6189703,6189705-6189707,6189709-6189713									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	95		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	95		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	105		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	105		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	98		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	116		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	109		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	110		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	96		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	115		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		56-121		
Batch number: 11025WAI026	Sample number(s): 6189704									
N-Nitrosodimethylamine	3.39		0.500	1.00	ng/l	92	92	70-130	0	30
Batch number: 11031SLA026	Sample number(s): 6189701-6189703,6189711-6189713									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	96		70-130		
Batch number: 11024A34A	Sample number(s): 6189701-6189703,6189711-6189713									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	70	77	67-119	10	30
Batch number: 11027A20A	Sample number(s): 6189704,6189714									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	81	75-135	21	30
Batch number: 110240033A	Sample number(s): 6189704									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	100	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	103	107	75-125	3	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	103	107	75-125	3	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	97	95	75-121	2	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	99	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	99	69-107	1	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	97	80-120	3	30
PETN	6.0	U	6.0	18	ug/l	113	108	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	100	100	70-125	0	30
Tetryl	0.40	U	0.40	0.60	ug/l	100	100	33-147	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 110290006A	Sample number(s): 6189701-6189703,6189711-6189713									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	103		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	116	126	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	116	125	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	103		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	102		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	102		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	100		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	99		80-120		
PETN	800 U		800.	2,400	ug/kg	93		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	102		80-120		
Batch number: 110240005A	Sample number(s): 6189704									
17b Formaldehyde by 8315A	12	J	10.	50	ug/l	98	96	69-130	2	30
Batch number: 110270005A	Sample number(s): 6189701-6189703,6189711-6189713									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 110310001A	Sample number(s): 6189701									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110270021A	Sample number(s): 6189701,6189705-6189707,6189709-6189713									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	101	75-125	23	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	130		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110340005A	Sample number(s): 6189702-6189703									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	59*	60*	75-125	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	73		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	90		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110240035A	Sample number(s): 6189704									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	92	98	60-120	6	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	100	101	60-120	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	100	60-120	8	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	87	93	60-120	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	72	80	60-120	11	30
Batch number: 110340002A	Sample number(s): 6189701-6189703,6189711-6189713									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	83		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	87		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	68		66-113		
Batch number: 110240002A	Sample number(s): 6189704									
Diethylene glycol	12	U	12.	100	mg/l	91		78-126		
Ethylene glycol	10	U	10.	100	mg/l	95		80-124		
Propylene glycol	10	U	10.	100	mg/l	95		80-120		
Batch number: 110250023A	Sample number(s): 6189701-6189703,6189711-6189713									
Ethanol	100 U		100.	500	ug/kg	98		75-112		
Isopropanol	100 U		100.	500	ug/kg	99		75-125		
Methanol	100 U		100.	500	ug/kg	99		75-134		
Batch number: 110270020A	Sample number(s): 6189704									
Ethanol	200 U		200.	1,000	ug/l	96		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	100		77-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110310023A	Sample number(s): 6189701-6189703,6189711-6189713									
Diethylene glycol	5.0	U	5.0	13	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	89		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		
Batch number: 110240013A	Sample number(s): 6189704									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	94	96	75-125	2	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	93	95	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	79	81	75-125	3	20
Batch number: 110250013A	Sample number(s): 6189701-6189703,6189711-6189713									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
Batch number: 110261026002A	Sample number(s): 6189701-6189703,6189705-6189713									
Antimony	0.0571	U	0.0571	0.190	mg/kg	68		11-208		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	98		80-120		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	96		82-118		
Cadmium	0.0381	U	0.0381	0.0952	mg/kg	99		82-118		
Chromium	0.114	U	0.114	0.381	mg/kg	106		80-120		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	110		82-118		
Copper	0.161	J	0.0629	0.381	mg/kg	108		80-120		
Lead	0.0099	U	0.0099	0.190	mg/kg	105		80-120		
Nickel	0.0952	U	0.0952	0.381	mg/kg	108		80-120		
Silver	0.0114	U	0.0114	0.0952	mg/kg	102		66-134		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	102		81-119		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	99		90-110		
Zinc	0.533	U	0.533	2.86	mg/kg	103		78-122		
Batch number: 110261026002B	Sample number(s): 6189701-6189703,6189705-6189713									
Selenium	0.0381	U	0.0381	0.381	mg/kg	101		79-122		
Batch number: 110261026002C	Sample number(s): 6189701-6189703,6189705-6189713									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	104		78-122		
Batch number: 110261026002D	Sample number(s): 6189701-6189703,6189705-6189713									
Barium	0.103	U	0.103	0.381	mg/kg	106		79-121		
Batch number: 110265708001	Sample number(s): 6189701-6189703,6189705-6189713									
Aluminum	4.93	U	4.93	19.6	mg/kg	91		61-110		
Boron	0.873	U	0.873	4.90	mg/kg	90		78-110		
Calcium	6.01	U	6.01	19.6	mg/kg	95		88-110		
Iron	4.69	J	4.62	19.6	mg/kg	87		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.49	U	2.49	9.80	mg/kg	92		82-110		
Manganese	0.0765	U	0.0765	0.490	mg/kg	95		81-119		
Phosphorus	0.964	J	0.549	9.80	mg/kg	100		80-120		
Potassium	17.6	U	17.6	49.0	mg/kg	89		78-110		
Sodium	36.6	U	36.6	98.0	mg/kg	98		87-110		
Strontium	0.0608	U	0.0608	0.490	mg/kg	103		79-121		
Tin	1.04	J	0.980	9.80	mg/kg	99		90-114		
Zirconium	0.824	U	0.824	4.90	mg/kg	101		80-120		
Batch number: 110265711002	Sample number(s): 6189701-6189703,6189705-6189713									
Mercury	0.0029	U	0.0029	0.0997	mg/kg	100		88-123		
Batch number: 110325708001	Sample number(s): 6189701-6189703,6189705-6189713									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.380	U	0.380	1.00	mg/kg	119		80-120		
Batch number: 11022373901A	Sample number(s): 6189704									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	98	97	90-110	1	20
Batch number: 11028102201B	Sample number(s): 6189701-6189703,6189711-6189713									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11033033202A	Sample number(s): 6189701-6189703,6189705-6189706,6189708-6189713									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	107		90-110		
Batch number: 11033117101C	Sample number(s): 6189704									
21b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	106	108	90-110	2	20
Batch number: 11034243201A	Sample number(s): 6189701-6189703,6189705-6189706,6189708-6189713									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11034621202A	Sample number(s): 6189701-6189703,6189705-6189706,6189708-6189713									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11024020001A	Sample number(s): 6189704									
22b pH by 9040B						100		99-101		
Batch number: 11026039401B	Sample number(s): 6189701-6189703									
22a pH by 9045C						100		95-105		
Batch number: 11026039402A	Sample number(s): 6189705,6189708-6189713									
22a pH by 9045C						101		95-105		
Batch number: 11026182101B	Sample number(s): 6189701-6189703									
32a OR Potential						99		98-102		
Batch number: 11026182102A	Sample number(s): 6189705,6189708-6189713									
32a OR Potential						99		98-102		
Batch number: 11027162401A	Sample number(s): 6189705-6189710									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
Batch number: 11039162401A	Sample number(s): 6189701-6189703,6189711-6189713									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110241AA	Sample number(s): 6189701-6189703,6189705-6189707,6189709-6189711 UNSPK: 6189705								
Acetone	88	121	15-210	43*	30				
Benzene	99	101	55-143	13	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromobenzene	79	85	43-139	18	30				
Bromochloromethane	109	110	60-137	12	30				
Bromodichloromethane	94	94	53-136	11	30				
Bromoform	94	93	38-124	11	30				
Bromomethane	72	69	42-168	6	30				
2-Butanone	70	87	37-163	33*	30				
n-Butylbenzene	62	70	30-146	24	30				
sec-Butylbenzene	67	75	33-157	22	30				
tert-Butylbenzene	69	76	41-152	21	30				
Carbon Tetrachloride	110	110	45-153	12	30				
Chlorobenzene	88	92	49-135	16	30				
Chloroethane	71	66	39-152	4	30				
2-Chloroethyl Vinyl Ether	74	74	32-139	11	30				
Chloroform	104	102	61-142	10	30				
Chloromethane	77	68	51-163	1	30				
2-Chlorotoluene	74	81	42-146	20	30				
4-Chlorotoluene	73	80	39-145	21	30				
Chlorotrifluoroethene	173*	163*	70-130	11	30				
1,2-Dibromo-3-chloropropane	64	68	30-139	18	30				
Dibromochloromethane	96	94	51-128	9	30				
1,2-Dibromoethane	90	92	54-129	13	30				
Dibromomethane	96	97	57-130	12	30				
1,2-Dichlorobenzene	75	84	36-133	23	30				
1,3-Dichlorobenzene	73	80	34-134	21	30				
1,4-Dichlorobenzene	73	81	35-136	22	30				
Dichlorodifluoromethane	73	68	26-151	5	30				
1,1-Dichloroethane	99	99	63-142	11	30				
1,2-Dichloroethane	96	94	68-131	10	30				
1,1-Dichloroethene	110	108	61-149	10	30				
cis-1,2-Dichloroethene	103	104	60-136	12	30				
trans-1,2-Dichloroethene	106	110	59-142	15	30				
1,2-Dichloropropane	90	91	62-135	12	30				
1,3-Dichloropropane	84	84	58-129	12	30				
2,2-Dichloropropane	103	103	53-147	11	30				
1,1-Dichloropropene	94	97	54-145	15	30				
cis-1,3-Dichloropropene	77	79	51-131	14	30				
trans-1,3-Dichloropropene	75	76	49-129	13	30				
Ethylbenzene	80	85	44-141	18	30				
Freon 113	114	112	56-156	10	30				
Freon 133a	104	99	70-130	12	30				
Hexachlorobutadiene	60	67	10-155	23	30				
2-Hexanone	49	55	32-160	24	30				
Isopropylbenzene	75	81	38-144	19	30				
p-Isopropyltoluene	65	74	29-152	24	30				
Methyl Tertiary Butyl Ether	90	89	55-129	10	30				
4-Methyl-2-pentanone	55	57	46-139	15	30				
Methylene Chloride	95	92	61-141	9	30				
n-Propylbenzene	73	80	39-157	21	30				
Styrene	82	87	35-134	18	30				
1,1,1,2-Tetrachloroethane	98	99	52-130	12	30				
1,1,2,2-Tetrachloroethane	77	79	40-152	13	30				
Tetrachloroethene	97	103	42-149	17	30				
Toluene	92	96	50-146	16	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichlorobenzene	51	67	10-140	38*	30				
1,2,4-Trichlorobenzene	46	58	10-136	33*	30				
1,1,1-Trichloroethane	119	106	64-142	1	30				
1,1,2-Trichloroethane	93	93	54-139	11	30				
Trichloroethene	96	100	53-144	15	30				
Trichlorofluoromethane	95	87	47-163	4	30				
1,2,3-Trichloropropane	81	82	45-154	13	30				
1,2,4-Trimethylbenzene	71	78	37-149	21	30				
1,3,5-Trimethylbenzene	71	78	38-150	21	30				
Vinyl Chloride	76	72	50-154	6	30				
m+p-Xylene	86	91	44-137	17	30				
o-Xylene	75	81	42-137	19	30				
Batch number: B110251AA	Sample number(s): 6189712-6189713 UNSPK: P189213								
Acetone	152	156	15-210	16	30				
Benzene	101	107	55-143	20	30				
Bromobenzene	92	100	43-139	22	30				
Bromochloromethane	109	113	60-137	17	30				
Bromodichloromethane	96	100	53-136	18	30				
Bromoform	103	104	38-124	14	30				
Bromomethane	70	75	42-168	20	30				
2-Butanone	101	105	37-163	17	30				
n-Butylbenzene	81	89	30-146	24	30				
sec-Butylbenzene	83	94	33-157	25	30				
tert-Butylbenzene	83	92	41-152	24	30				
Carbon Tetrachloride	112	117	45-153	18	30				
Chlorobenzene	100	106	49-135	19	30				
Chloroethane	68	74	39-152	22	30				
2-Chloroethyl Vinyl Ether	76	79	32-139	18	30				
Chloroform	103	108	61-142	19	30				
Chloromethane	67	75	51-163	24	30				
2-Chlorotoluene	89	99	42-146	23	30				
4-Chlorotoluene	88	98	39-145	24	30				
Chlorotrifluoroethene	146*	148*	70-130	5	30				
1,2-Dibromo-3-chloropropane	70	73	30-139	18	30				
Dibromochloromethane	104	106	51-128	15	30				
1,2-Dibromoethane	97	100	54-129	17	30				
Dibromomethane	99	103	57-130	17	30				
1,2-Dichlorobenzene	91	97	36-133	21	30				
1,3-Dichlorobenzene	89	97	34-134	23	30				
1,4-Dichlorobenzene	90	97	35-136	21	30				
Dichlorodifluoromethane	69	72	26-151	19	30				
1,1-Dichloroethane	98	104	63-142	19	30				
1,2-Dichloroethane	99	103	68-131	17	30				
1,1-Dichloroethene	110	115	61-149	19	30				
cis-1,2-Dichloroethene	104	110	60-136	19	30				
trans-1,2-Dichloroethene	111	117	59-142	19	30				
1,2-Dichloropropane	91	97	62-135	20	30				
1,3-Dichloropropane	90	95	58-129	18	30				
2,2-Dichloropropane	106	112	53-147	19	30				
1,1-Dichloropropene	97	104	54-145	20	30				
cis-1,3-Dichloropropene	82	88	51-131	21	30				
trans-1,3-Dichloropropene	81	87	49-129	21	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	92	100	44-141	22	30				
Freon 113	112	118	56-156	19	30				
Freon 133a	98	102	70-130	3	30				
Hexachlorobutadiene	73	79	10-155	22	30				
2-Hexanone	67	72	32-160	20	30				
Isopropylbenzene	91	97	38-144	21	30				
p-Isopropyltoluene	84	94	29-152	25	30				
Methyl Tertiary Butyl Ether	90	97	55-129	21	30				
4-Methyl-2-pentanone	57	61	46-139	20	30				
Methylene Chloride	93	98	61-141	17	30				
n-Propylbenzene	89	98	39-157	24	30				
Styrene	97	103	35-134	20	30				
1,1,1,2-Tetrachloroethane	106	110	52-130	17	30				
1,1,2,2-Tetrachloroethane	82	86	40-152	19	30				
Tetrachloroethene	117	125	42-149	20	30				
Toluene	100	107	50-146	20	30				
1,2,3-Trichlorobenzene	73	73	10-140	14	30				
1,2,4-Trichlorobenzene	66	70	10-136	20	30				
1,1,1-Trichloroethane	109	114	64-142	18	30				
1,1,2-Trichloroethane	99	103	54-139	18	30				
Trichloroethene	101	107	53-144	20	30				
Trichlorofluoromethane	93	94	47-163	15	30				
1,2,3-Trichloropropane	88	92	45-154	18	30				
1,2,4-Trimethylbenzene	88	97	37-149	23	30				
1,3,5-Trimethylbenzene	88	97	38-150	23	30				
Vinyl Chloride	73	80	50-154	23	30				
m+p-Xylene	100	107	44-137	20	30				
o-Xylene	89	95	42-137	20	30				
Batch number: E110251AA	Sample number(s): 6189714 UNSPK: P189813								
1,4-Dioxane	99		50-150						
Batch number: E110261AA	Sample number(s): 6189701-6189703,6189705-6189707,6189709-6189713 UNSPK: 6189705								
1,4-Dioxane	88	86	70-130	13	30				
Batch number: 11025SLE026	Sample number(s): 6189701-6189703,6189705-6189707,6189709-6189713 UNSPK: 6189705								
Acenaphthene	97	91	75-115	6	30				
Acenaphthylene	98	95	49-126	4	30				
Aniline	67	54	14-114	21	30				
Anthracene	96	94	75-115	3	30				
Benzidine	26*	17*	35-141	39*	30				
Benzo(a)anthracene	98	97	65-122	1	30				
Benzo(a)pyrene	84	83	57-126	1	30				
Benzo(b)fluoranthene	79	77	59-125	2	30				
Benzo(g,h,i)perylene	88	87	59-127	0	30				
Benzo(k)fluoranthene	92	91	56-132	1	30				
Benzoic acid	103	98	10-173	5	30				
Benzyl alcohol	93	90	55-123	4	30				
4-Bromophenyl-phenylether	94	90	67-129	3	30				
Butylbenzylphthalate	99	97	73-134	3	30				
Di-n-butylphthalate	94	92	67-123	3	30				
Carbazole	96	95	64-120	1	30				
4-Chloro-3-methylphenol	95	89	53-130	6	30				

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Quality Control Summary

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Reported: 02/11/11 at 04:05 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloroaniline	61	52	23-95	15	30				
bis(2-Chloroethoxy)methane	94	88	54-117	6	30				
bis(2-Chloroethyl)ether	93	87	60-116	7	30				
bis(2-Chloroisopropyl)ether	92	86	55-142	7	30				
2-Chloronaphthalene	82	85	50-141	4	30				
2-Chlorophenol	95	92	73-121	3	30				
4-Chlorophenyl-phenylether	94	90	64-119	4	30				
Chrysene	98	96	62-128	2	30				
Dibenz(a,h)anthracene	88	86	65-125	2	30				
Dibenzofuran	98	93	71-112	5	30				
1,2-Dichlorobenzene	90	83	66-108	8	30				
1,3-Dichlorobenzene	88	83	63-109	6	30				
1,4-Dichlorobenzene	90	84	53-113	6	30				
3,3'-Dichlorobenzidine	78	67	25-123	16	30				
2,4-Dichlorophenol	95	92	78-117	3	30				
Diethylphthalate	96	91	66-118	5	30				
2,4-Dimethylphenol	95	92	56-130	3	30				
3,5-Dimethylphenol	109	104	70-130	5	30				
Dimethylphthalate	97	93	64-118	4	30				
4,6-Dinitro-2-methylphenol	80	82	10-148	2	30				
2,4-Dinitrophenol	70	70	20-143	1	30				
2,4-Dinitrotoluene	95	92	57-114	3	30				
2,6-Dinitrotoluene	96	94	69-123	2	30				
1,2-Diphenylhydrazine	101	97	71-129	4	30				
bis(2-Ethylhexyl)phthalate	94	92	63-122	2	30				
Fluoranthene	98	96	59-122	2	30				
Fluorene	96	92	60-125	5	30				
Hexachlorobenzene	96	96	61-111	0	30				
Hexachlorobutadiene	93	86	62-120	8	30				
Hexachlorocyclopentadiene	72	68	10-153	6	30				
Hexachloroethane	85	81	57-109	4	30				
Indeno(1,2,3-cd)pyrene	87	85	61-126	2	30				
Isophorone	92	90	51-118	2	30				
1-Methylnaphthalene	97	91	73-112	7	30				
2-Methylnaphthalene	90	85	76-114	6	30				
2-Methylphenol	97	90	47-142	7	30				
4-Methylphenol	86	82	55-126	5	30				
Naphthalene	93	86	72-116	7	30				
2-Nitroaniline	97	90	67-125	7	30				
3-Nitroaniline	90	88	59-122	2	30				
4-Nitroaniline	82	79	52-112	4	30				
Nitrobenzene	95	89	51-114	7	30				
2-Nitrophenol	95	88	74-115	8	30				
4-Nitrophenol	70	65	39-133	7	30				
N-Nitroso-di-n-propylamine	90	88	60-116	2	30				
N-Nitrosodimethylamine	82	80	47-116	3	30				
N-Nitrosodiphenylamine	97	95	86-145	3	30				
Di-n-octylphthalate	86	84	56-126	1	30				
Pentachlorophenol	64	64	17-149	0	30				
Phenanthrene	95	94	65-125	2	30				
Phenol	94	90	58-126	5	30				
Pyrene	103	99	51-151	5	30				
1,2,4-Trichlorobenzene	94	88	72-115	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,5-Trichlorophenol	95	91	34-139	4	30				
2,4,6-Trichlorophenol	99	91	49-140	8	30				
Batch number: 11025SLF026	Sample number(s): 6189701-6189703,6189705-6189707,6189709-6189713 UNSPK: 6189705								
Acenaphthene	94	94	63-105	1	30				
Acenaphthylene	87	91	67-114	5	30				
Anthracene	95	92	60-122	3	30				
Benzo(a)anthracene	101	100	59-128	1	30				
Benzo(a)pyrene	93	93	45-138	0	30				
Benzo(b)fluoranthene	110	106	43-155	3	30				
Benzo(g,h,i)perylene	104	95	33-141	9	30				
Benzo(k)fluoranthene	104	96	42-144	7	30				
Butylbenzylphthalate	101	99	57-173	1	30				
Di-n-butylphthalate	102	96	65-148	6	30				
Chrysene	96	96	48-134	0	30				
Dibenz(a,h)anthracene	98	91	22-133	8	30				
Diethylphthalate	93	95	70-136	3	30				
Dimethylphthalate	97	105	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	109	111	39-167	2	30				
Fluoranthene	105	103	26-166	2	30				
Fluorene	98	100	66-122	3	30				
Indeno(1,2,3-cd)pyrene	97	90	21-143	8	30				
1-Methylnaphthalene	87	98	72-123	12	30				
2-Methylnaphthalene	81	89	64-103	9	30				
Naphthalene	90	93	61-102	4	30				
N-Nitrosodimethylamine	86	80	48-113	7	30				
Di-n-octylphthalate	105	98	40-192	7	30				
Phenanthrene	96	94	12-165	2	30				
Pyrene	91	94	15-153	3	30				
Batch number: 11031SLA026	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: 6189701								
N-Nitrosodimethylamine	87	90	70-130	4	30				
Batch number: 11024A34A	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: P189213								
9a TPH by EPA 8015B Gas C5-C12	65	69	39-118	0	30				
Batch number: 110290006A	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: 6189701								
4-Amino-2,6-Dinitrotoluene	101	103	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	101	102	80-137	1	50				
1,3-Dinitrobenzene	100	101	38-166	1	50				
2,4-Dinitrotoluene	97	98	80-131	1	50				
2,6-Dinitrotoluene	99	102	80-127	2	50				
HMX	93	96	63-128	2	50				
Nitrobenzene	98	99	80-125	1	50				
Nitroglycerin	88	90	80-120	2	50				
2-Nitrotoluene	98	101	80-122	3	50				
3-Nitrotoluene	96	97	72-119	2	50				
4-Nitrotoluene	95	96	80-125	1	50				
PETN	79*	81	80-121	3	50				
RDX	100	101	75-129	0	50				
Tetryl	88	90	55-174	2	50				
1,3,5-Trinitrobenzene	105	105	82-126	0	50				
2,4,6-Trinitrotoluene	96	98	82-130	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110270005A	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: 6189701								
17a Formaldehyde by 8315A	102	100	80-120	2	50				
Batch number: 110310001A	Sample number(s): 6189701 UNSPK: P189220								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 110270021A	Sample number(s): 6189701,6189705-6189707,6189709-6189713 UNSPK: 6189705								
PCB-1016	79	89	29-146	12	50				
PCB-1260	128	135	39-149	5	50				
Batch number: 110340005A	Sample number(s): 6189702-6189703 UNSPK: P193662								
PCB-1016	83	74	29-146	11	50				
PCB-1260	99	87	39-149	14	50				
Batch number: 110340002A	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: P190384								
EFH (C12-C14)	74	71	49-123	3	20				
EFH (C15-C20)	104	97	49-123	7	20				
EFH (C21-C30)	111	31*	49-123	40*	20				
EFH (C30 - C40)	98	2*	49-123	31*	20				
EFH (C8-C11)	61	54	49-123	13	20				
Batch number: 110240002A	Sample number(s): 6189704 UNSPK: P189756								
Diethylene glycol	39*	73*	83-130	60*	20				
Ethylene glycol	81*	105	89-125	26*	20				
Propylene glycol	90*	95	91-128	5	20				
Batch number: 110250023A	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: 6189703								
Ethanol	79	80	24-143	1	20				
Isopropanol	80	81	75-125	1	20				
Methanol	57	61	45-136	3	20				
Batch number: 110270020A	Sample number(s): 6189704 UNSPK: P190759								
Ethanol	88	88	69-125	0	20				
Isopropanol	92	92	75-125	0	20				
Methanol	75	75	61-131	0	20				
Batch number: 110310023A	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: P189227								
Diethylene glycol	82	82	59-109	1	20				
Ethylene glycol	86	87	63-107	1	20				
Propylene glycol	89	88	63-107	1	20				
Batch number: 110250013A	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: P189213								
m-Terphenyl	90	89	75-125	1	20				
o-Terphenyl	102	96	75-125	6	20				
p-Terphenyl	81	77	75-125	6	20				
Batch number: 110261026002A	Sample number(s): 6189701-6189703,6189705-6189713 UNSPK: 6189705 BKG: 6189705								
Antimony	20*	23*	75-125	12	20	0.0799 J	0.0870 J	9 (1)	20
Arsenic	170*	163*	75-125	1	20	4.78	4.59	4	20
Beryllium	74*	72*	75-125	1	20	0.809	0.735	9	20
Cadmium	83	89	75-125	7	20	0.133	0.132	0 (1)	20
Chromium	74*	72*	75-125	0	20	28.0	27.8	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Cobalt	114	101	75-125	9	20	6.66	6.61	1	20
Copper	114	105	75-125	3	20	12.2	12.0	2	20
Lead	126*	74*	75-125	16	20	6.42	6.47	1	20
Nickel	102	88	75-125	5	20	16.7	16.7	0	20
Silver	94	93	75-125	0	20	0.0486 J	0.0497 J	2 (1)	20
Thallium	68*	78	75-125	7	20	0.289	0.240	18 (1)	20
Vanadium	76 (2)	50 (2)	75-125	4	20	50.2	47.7	5	20
Zinc	90 (2)	76 (2)	75-125	3	20	44.8	46.6	4	20
Batch number: 110261026002B	Sample number(s): 6189701-6189703,6189705-6189713 UNSPK: 6189705 BKG: 6189705								
Selenium	84	80	75-125	4	20	0.172 J	0.172 J	0 (1)	20
Batch number: 110261026002C	Sample number(s): 6189701-6189703,6189705-6189713 UNSPK: 6189705 BKG: 6189705								
Molybdenum	85	83	75-125	1	20	0.388	0.375	3 (1)	20
Batch number: 110261026002D	Sample number(s): 6189701-6189703,6189705-6189713 UNSPK: 6189705 BKG: 6189705								
Barium	-280 (2)	-287 (2)	75-125	1	20	122	125	3	20
Batch number: 110265708001	Sample number(s): 6189701-6189703,6189705-6189713 UNSPK: 6189705 BKG: 6189705								
Aluminum	-1042 (2)	-1621 (2)	75-125	5	20	23,900	22,200	7	20
Boron	91	91	84-115	2	20	1.29 J	1.31 J	2 (1)	20
Calcium	2 (2)	3 (2)	75-125	0	20	2,870	2,750	4	20
Iron	-4116 (2)	-3752 (2)	75-125	2	20	24,100	23,300	3	20
Lithium	105	104	82-114	2	20	29.1	27.5	6	20
Magnesium	152 (2)	132 (2)	75-125	1	20	4,160	3,990	4	20
Manganese	-359 (2)	-344 (2)	75-125	6	20	351	294	18	20
Phosphorus	69*	92	75-125	9	20	155	159	2	20
Potassium	62*	56*	75-125	3	20	1,640	1,590	3	20
Sodium	97	97	75-125	2	20	127	121	5 (1)	20
Strontium	91	89	75-115	3	20	26.5	25.2	5	20
Tin	88	87	80-110	2	20	2.41 J	2.14 J	12 (1)	20
Zirconium	96	96	75-125	2	20	2.82 J	3.27 J	15 (1)	20
Batch number: 110265711002	Sample number(s): 6189701-6189703,6189705-6189713 UNSPK: 6189705 BKG: 6189705								
Mercury	101	102	65-135	0	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 110325708001	Sample number(s): 6189701-6189703,6189705-6189713 UNSPK: 6189705 BKG: 6189705								
Titanium	205 (2)	204 (2)	75-125	0	20	1,320	1,290	3	20
Batch number: 11028102201B	Sample number(s): 6189701-6189703,6189711-6189713 UNSPK: 6189701 BKG: 6189701								
21a Cyanide by 9012B	99		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11033033202A	Sample number(s): 6189701-6189703,6189705-6189706,6189708-6189713 UNSPK: 6189705 BKG: 6189705								
11a Anions by 300.0 - Fluoride	74*		80-120			1.5	1.4	11 (1)	20
11a Anions by 300.0 - Nitrate	98		80-120			2.0	1.5	28* (1)	20
Batch number: 11034243201A	Sample number(s): 6189701-6189703,6189705-6189706,6189708-6189713 UNSPK: 6189705 BKG: 6189705								

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Quality Control Summary

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Reported: 02/11/11 at 04:05 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
3a Cr VI by EPA 7199	92		75-125			0.36	J	0.72	J	68* (1)	20
Batch number: 11034621202A	Sample number(s): 6189701-6189703,6189705-6189706,6189708-6189713 UNSPK: 6189705 BKG: 6189705										
7a Perchlorate EPA 314.0	98		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11024020001A	Sample number(s): 6189704 BKG: P189641										
22b pH by 9040B						5.3		5.3		0	1
Batch number: 11026039401B	Sample number(s): 6189701-6189703 BKG: 6189703										
22a pH by 9045C						7.84		7.85		0	1
Batch number: 11026039402A	Sample number(s): 6189705,6189708-6189713 BKG: 6189705										
22a pH by 9045C						6.14		6.14		0	1
Batch number: 11026182101B	Sample number(s): 6189701-6189703 BKG: P189226										
32a OR Potential						278		278		0	6
Batch number: 11026182102A	Sample number(s): 6189705,6189708-6189713 BKG: 6189705										
32a OR Potential						476		476		0	6
Batch number: 11027162401A	Sample number(s): 6189705-6189710 BKG: 6189705										
28a Moisture Content by 160.3						13.5		14.1		4	20
28a Moisture Content by 160.3						13.5		14.1		4	20
28a Moisture Content by 160.3						13.5		14.1		4	20
Batch number: 11039162401A	Sample number(s): 6189701-6189703,6189711-6189713 BKG: P190392										
28a Moisture Content by 160.3						12.1		12.0		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6189701	117	111	95	80
6189702	116	109	92	84
6189703	117	113	92	88
6189705	116	110	92	81
6189706	106	104	100	102
6189707	104	106	100	101
6189709	115	112	92	83
6189710	117	113	91	83
6189711	118	115	91	84
Blank	112	109	92	85
LCS	101	103	98	101
MS	106	104	100	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Surrogate Quality Control

MSD	104	106	100	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6189712	116	112	92	86
6189713	117	114	91	86
Blank	114	110	91	85
LCS	106	104	98	102
MS	105	105	100	101
MSD	103	105	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110251AA

	Toluene-d8
6189714	95
Blank	96
LCS	96
LCSD	95
MS	95
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110261AA

	Toluene-d8
6189701	98
6189702	98
6189703	98
6189705	98
6189706	98
6189707	99
6189709	99
6189710	98
6189711	99
6189712	99
6189713	98
Blank	99
LCS	99
LCSD	100
MS	98
MSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110282AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6189714	103	102	99	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Surrogate Quality Control

Blank	104	102	100	98
LCS	104	101	101	101
LCSD	101	104	102	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11025SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6189701	85	86	89	85	88	89
6189702	87	86	88	85	89	87
6189703	85	84	87	83	87	86
6189705	85	85	88	84	88	86
6189706	94	91	92	90	94	87
6189707	88	86	86	83	87	84
6189709	77	77	79	75	81	80
6189710	89	87	90	87	91	89
6189711	78	77	77	74	78	78
6189712	81	79	83	76	81	82
6189713	66	65	64	64	68	67
Blank	92	92	93	89	94	91
LCS	94	91	93	90	93	87
MS	94	91	92	90	94	87
MSD	88	86	86	83	87	84
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11025SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6189701	105	82	90
6189702	106	89	87
6189703	102	94	85
6189705	97	89	102
6189706	100	84	91
6189707	110	92	89
6189709	97	90	85
6189710	102	91	88
6189711	114	91	122
6189712	90	89	105
6189713	107	96	95
Blank	124	109	100
LCS	102	96	98
MS	100	84	91
MSD	110	92	89
Limits:	40-130	45-130	45-135

Analysis Name: 19b NDMA by 1625C
Batch number: 11025WAI026

	N-Nitrosodimethylamine-d6
6189704	119
Blank	104

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Surrogate Quality Control

LCS	102
LCSD	106

Limits: 50-150

Analysis Name: 19a NDMA by 1625C
Batch number: 11031SLA026

	N-Nitrosodimethylamine-d6
6189701	89
6189702	106
6189703	91
6189711	105
6189712	110
6189713	120
Blank	85
LCS	85
MS	70
MSD	71

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11024A34A

	Trifluorotoluene-F
6189701	75
6189702	82
6189703	77
6189711	75
6189712	69
6189713	70
Blank	87
LCS	84
LCSD	93
MS	79
MSD	80

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11027A20A

	Trifluorotoluene-F
6189704	91
6189714	90
Blank	88
LCS	121
LCSD	114

Limits: 63-135

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 110240005A

	Butyraldehyde

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Surrogate Quality Control

6189704	108
Blank	102
LCS	98
LCSD	95
Limits:	45-145

Analysis Name: 20b Energetics by 8330A
Batch number: 110240033A

	2-Nitro-m-xylene
6189704	134
Blank	102
LCS	116
LCSD	119
Limits:	50-134

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110270005A

	Butyraldehyde
6189701	105
6189702	109
6189703	111
6189711	115
6189712	111
6189713	111
Blank	99
LCS	110
MS	113
MSD	108
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110270021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6189701	86	131*
6189705	95	134*
6189706	83	124*
6189707	91	129*
6189709	94	142*
6189710	90	136*
6189711	90	133*
6189712	90	134*
6189713	84	135*
Blank	89	122*
LCS	88	126*
LCSD	88	136*
MS	83	124*
MSD	91	129*
Limits:	53-139	45-120

Analysis Name: 20a Energetics by 8330A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Surrogate Quality Control

Batch number: 110290006A

	2-Nitro-m-xylene
6189701	105
6189702	106
6189703	105
6189711	97
6189712	96
6189713	102
Blank	120
LCS	118
LCSD	107
MS	101
MSD	103
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110340005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6189702	74	89
6189703	71	87
Blank	92	109
LCS	81	97
LCSD	87	108
MS	88	94
MSD	87	87
Limits:	53-139	45-120

Analysis Name: 27b Glycols by 8015B
Batch number: 110240002A

	Tetramethylene glycol
6189704	99
Blank	96
LCS	105
MS	114
MSD	100
Limits:	10-164

Analysis Name: 26b Terphenyls by 8015B
Batch number: 110240013A

	n-Triacontane-d62
6189704	102
Blank	120
LCS	118
LCSD	125
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 110240035A

	Chlorobenzene	Orthoterphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Surrogate Quality Control

6189704	87	88
Blank	84	93
LCS	87	98
LCSD	93	100
Limits:	28-152	52-131

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110250013A
n-Triacontane-d62

6189701	119
6189702	106
6189703	98
6189711	108
6189712	111
6189713	107
Blank	102
LCS	103
MS	112
MSD	109
Limits:	50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110250023A
Acetone

6189701	83
6189702	87
6189703	79
6189711	83
6189712	81
6189713	85
Blank	98
LCS	104
MS	84
MSD	85
Limits:	42-138

Analysis Name: 25b Alcohols by 8015B
Batch number: 110270020A
Acetone

6189704	94
Blank	114
LCS	105
MS	91
MSD	96
Limits:	54-147

Analysis Name: 27a Glycols by 8015B
Batch number: 110310023A
Tetramethylene glycol

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230154
Reported: 02/11/11 at 04:05 PM

Surrogate Quality Control

6189701	55	
6189702	51	
6189703	45	
6189711	32	
6189712	41	
6189713	45	
Blank	94	
LCS	98	
MS	87	
MSD	84	
Limits:	29-137	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110340002A

	Chlorobenzene	Orthoterphenyl
6189701	49	78
6189702	54	73
6189703	54	79
6189711	54	75
6189712	50	62
6189713	48	60
Blank	70	84
LCS	65	84
MS	63	82
MSD	66	78
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1230154 Sample#6189701-14

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signature:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 8850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephanyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																								
SL-308-SA5B-SB-4.0-5.0	01.21.11	1115	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X		
SL-308-SA5B-SB-4.5	01.21.11	1110	SOIL	NONE	5 ENCORES											X	X	X											
SL-308-SA5B-SB-9.0-10.0	01.21.11	1129	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-308-SA5B-SB-9.5	01.21.11	1125	SOIL	NONE	5 Encores											X	X	X											
SL-308-SA5B-SB-14.0-15.0	01.21.11	1139	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-308-SA5B-SB-14.5	01.21.11	1135	SOIL	NONE	5 ENCORES											X	X	X											
EB25-SA5B-012111	01.21.11	1230	WATER	NONE	4 1L AMBERS															X			X	X		X			SUBSURFACE RINSATE
EB25-SA5B-012111	01.21.11	1230	WATER	NONE	1-250 mL glass														X			X							SUBSURFACE RINSATE
EB25-SA5B-012111	01.21.11	1230	WATER	NaOH	1-500mL poly																				X				SUBSURFACE RINSATE
EB25-SA5B-012111	01.21.11	1230	WATER	HCl	5-40 mL VOA VIALS													X										X	SUBSURFACE RINSATE
EB25-SA5B-012111	01.21.11	1230	WATER	NONE	4-40 mL VOA VIALS																X					X			SUBSURFACE RINSATE
SL-253-SA5B-SB-3.0-4.0MS	01.21.11	1315	SOIL	NONE	5 16 oz. jars	X	X	X	X	X	X	X																	MS/MSD
SL-253-SA5B-SB-3.5MS	01.21.11	1309	SOIL	NONE	12 ENCORES											X	X												MS/MSD
SL-254-SA5B-SB-3.5-4.5	01.21.11	1359	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-254-SA5B-SB-4.0	01.21.11	1354	SOIL	NONE	4 ENCORES											X	X												
DUP20-SA5B-QC-012111	01.21.11	1304	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	FIELD DUPLICATE
DUP20-SA5B-QC-012111	01.21.11	1304	SOIL	NONE	4 ENCORES											X	X												FIELD DUPLICATE
SL-307-SA5B-SB-4.5	01.21.11	1453	SOIL	NONE	5 ENCORES											X	X	X											
SL-307-SA5B-SB-4.0-5.0	01.21.11	1458	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-307-SA5B-SB-9.5	01.21.11	1503	SOIL	NONE	5 ENCORES											X	X	X											
SL-307-SA5B-SB-9.0-10.0	01.21.11	1508	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-307-SA5B-SB-14.5	01.21.11	1515	SOIL	NONE	5 ENCORES											X	X	X											
SL-307-SA5B-SB-14.0-15.0	01.21.11	1518	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
TB-012111	01.21.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											
Relinquished by: (Signature)	Date/Time 1/21/2011, 17:00		Received for Laboratory by: (Signature)																										Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 1/21/11		Airbill No.(s) 8695 1432 2328, ...2339, ...2340																										No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/22/2011
Group Number: 1230155
SDG: DX043
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-308-SA5B-SB-4.0-5.0 Soil	6189715
SL-308-SA5B-SB-9.0-10.0 Soil	6189716
SL-308-SA5B-SB-14.0-15.0 Soil	6189717
SL-253-SA5B-SB-3.0-4.0 Soil	6189718
SL-253-SA5B-SB-3.0-4.0MS Soil	6189719
SL-253-SA5B-SB-3.0-4.0MSD Soil	6189720
SL-254-SA5B-SB-3.5-4.5 Soil	6189721
DUP20-SA5B-QC-012111 Soil	6189722
SL-307-SA5B-SB-4.0-5.0 Soil	6189723
SL-307-SA5B-SB-9.0-10.0 Soil	6189724
SL-307-SA5B-SB-14.0-15.0 Soil	6189725

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189715
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4301 SDG#: DX043-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-308-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189715
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4301 SDG#: DX043-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0247	U	0.0247	1.13	1
11031	12378-PeCDD	40321-76-4	0.0683	JBQ	0.0248	5.67	1
11031	123478-HxCDD	39227-28-6	0.0527	JBQ	0.0305	5.67	1
11031	123678-HxCDD	57653-85-7	0.324	JB	0.0296	5.67	1
11031	123789-HxCDD	19408-74-3	0.630	JB	0.0256	5.67	1
11031	1234678-HpCDD	35822-46-9	0.687	JB	0.0424	5.67	1
11031	OCDD	3268-87-9	6.86	JB	0.0322	11.3	1
11031	2378-TCDF	51207-31-9	0.0371	JQ	0.0319	1.13	1
11031	12378-PeCDF	57117-41-6	0.0820	JBQ	0.0149	5.67	1
11031	23478-PeCDF	57117-31-4	0.160	JBQ	0.0146	5.67	1
11031	123478-HxCDF	70648-26-9	0.155	JB	0.0336	5.67	1
11031	123678-HxCDF	57117-44-9	0.211	JB	0.0247	5.67	1
11031	123789-HxCDF	72918-21-9	0.232	JBQ	0.0214	5.67	1
11031	234678-HxCDF	60851-34-5	0.172	JBQ	0.0195	5.67	1
11031	1234678-HpCDF	67562-39-4	0.606	JB	0.0255	5.67	1
11031	1234789-HpCDF	55673-89-7	0.108	JBQ	0.0266	5.67	1
11031	OCDF	39001-02-0	0.561	JB	0.0485	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-308-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189715
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4301 SDG#: DX043-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-4.0-5.0

LLI Sample # SW 6189715
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4301 SDG#: DX043-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/11/2011 14:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189716
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4302 SDG#: DX043-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-308-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189716
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4302 SDG#: DX043-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0224	U	0.0224	1.10	1
11031	12378-PeCDD	40321-76-4	0.0679	JBQ	0.0197	5.51	1
11031	123478-HxCDD	39227-28-6	0.0426	JBQ	0.0274	5.51	1
11031	123678-HxCDD	57653-85-7	0.228	JBQ	0.0276	5.51	1
11031	123789-HxCDD	19408-74-3	0.256	JBQ	0.0275	5.51	1
11031	1234678-HpCDD	35822-46-9	1.85	JB	0.0325	5.51	1
11031	OCDD	3268-87-9	21.5	B	0.0242	11.0	1
11031	2378-TCDF	51207-31-9	0.0357	JQ	0.0244	1.10	1
11031	12378-PeCDF	57117-41-6	0.0844	JB	0.0137	5.51	1
11031	23478-PeCDF	57117-31-4	0.147	JBQ	0.0137	5.51	1
11031	123478-HxCDF	70648-26-9	0.100	JB	0.0241	5.51	1
11031	123678-HxCDF	57117-44-9	0.116	JB	0.0199	5.51	1
11031	123789-HxCDF	72918-21-9	0.256	JB	0.0257	5.51	1
11031	234678-HxCDF	60851-34-5	0.162	JB	0.0219	5.51	1
11031	1234678-HpCDF	67562-39-4	0.572	JB	0.0149	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0938	JB	0.0256	5.51	1
11031	OCDF	39001-02-0	1.15	JB	0.0371	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-308-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189716
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4302 SDG#: DX043-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-9.0-10.0

LLI Sample # SW 6189716
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:29

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4302 SDG#: DX043-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/11/2011 15:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189717
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4303 SDG#: DX043-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-308-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189717
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4303 SDG#: DX043-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0230	U	0.0230	1.10	1
11031	12378-PeCDD	40321-76-4	0.0518	JBQ	0.0174	5.52	1
11031	123478-HxCDD	39227-28-6	0.0392	JBQ	0.0287	5.52	1
11031	123678-HxCDD	57653-85-7	0.206	JBQ	0.0279	5.52	1
11031	123789-HxCDD	19408-74-3	0.234	JBQ	0.0263	5.52	1
11031	1234678-HpCDD	35822-46-9	2.77	JB	0.0365	5.52	1
11031	OCDD	3268-87-9	31.3	B	0.0366	11.0	1
11031	2378-TCDF	51207-31-9	0.0393	JQ	0.0260	1.10	1
11031	12378-PeCDF	57117-41-6	0.0850	JBQ	0.0118	5.52	1
11031	23478-PeCDF	57117-31-4	0.209	JB	0.0123	5.52	1
11031	123478-HxCDF	70648-26-9	0.151	JB	0.0341	5.52	1
11031	123678-HxCDF	57117-44-9	0.139	JBQ	0.0233	5.52	1
11031	123789-HxCDF	72918-21-9	0.180	JBQ	0.0263	5.52	1
11031	234678-HxCDF	60851-34-5	0.207	JBQ	0.0240	5.52	1
11031	1234678-HpCDF	67562-39-4	0.784	JB	0.0167	5.52	1
11031	1234789-HpCDF	55673-89-7	0.140	JBQ	0.0292	5.52	1
11031	OCDF	39001-02-0	1.54	JB	0.0478	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	109	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189717
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4303 SDG#: DX043-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-308-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-308-SA5B-SB-14.0-15.0

LLI Sample # SW 6189717
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 11:39

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4303 SDG#: DX043-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/11/2011 16:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189718
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-253-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189718
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0486 JBQ	0.0282	1.16	1
11031	12378-PeCDD	40321-76-4	0.0535 JBQ	0.0194	5.78	1
11031	123478-HxCDD	39227-28-6	0.0633 JBQ	0.0276	5.78	1
11031	123678-HxCDD	57653-85-7	0.183 JBQ	0.0269	5.78	1
11031	123789-HxCDD	19408-74-3	0.254 JB	0.0260	5.78	1
11031	1234678-HpCDD	35822-46-9	0.506 JB	0.0351	5.78	1
11031	OCDD	3268-87-9	3.98 JB	0.0217	11.6	1
11031	2378-TCDF	51207-31-9	0.0266 U	0.0266	1.16	1
11031	12378-PeCDF	57117-41-6	0.0659 JB	0.0129	5.78	1
11031	23478-PeCDF	57117-31-4	0.0685 JBQ	0.0173	5.78	1
11031	123478-HxCDF	70648-26-9	0.0812 JB	0.0218	5.78	1
11031	123678-HxCDF	57117-44-9	0.0591 JBQ	0.0147	5.78	1
11031	123789-HxCDF	72918-21-9	0.329 JB	0.0222	5.78	1
11031	234678-HxCDF	60851-34-5	0.116 JB	0.0171	5.78	1
11031	1234678-HpCDF	67562-39-4	0.300 JB	0.0128	5.78	1
11031	1234789-HpCDF	55673-89-7	0.0212 U	0.0212	5.78	1
11031	OCDF	39001-02-0	0.349 JB	0.0436	11.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189718
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189718
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/11/2011 17:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189719
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-253-SA5B-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189719
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.1	B	0.0346	1.16	1
11031	12378-PeCDD	40321-76-4	111	B	0.0353	5.78	1
11031	123478-HxCDD	39227-28-6	113	B	0.0482	5.78	1
11031	123678-HxCDD	57653-85-7	114	B	0.0501	5.78	1
11031	123789-HxCDD	19408-74-3	111	B	0.0482	5.78	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0526	5.78	1
11031	OCDD	3268-87-9	228	B	0.0496	11.6	1
11031	2378-TCDF	51207-31-9	23.1		0.0447	1.16	1
11031	12378-PeCDF	57117-41-6	111	B	0.0252	5.78	1
11031	23478-PeCDF	57117-31-4	111	B	0.0269	5.78	1
11031	123478-HxCDF	70648-26-9	116	B	0.0600	5.78	1
11031	123678-HxCDF	57117-44-9	111	B	0.0476	5.78	1
11031	123789-HxCDF	72918-21-9	114	B	0.0527	5.78	1
11031	234678-HxCDF	60851-34-5	114	B	0.0492	5.78	1
11031	1234678-HpCDF	67562-39-4	113	B	0.0354	5.78	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0583	5.78	1
11031	OCDF	39001-02-0	233	B	0.0825	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189719
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189719
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/11/2011 18:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189720
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-253-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189720
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.6	B	0.0464	1.16	1
11031	12378-PeCDD	40321-76-4	108	B	0.0440	5.78	1
11031	123478-HxCDD	39227-28-6	115	B	0.0461	5.78	1
11031	123678-HxCDD	57653-85-7	115	B	0.0475	5.78	1
11031	123789-HxCDD	19408-74-3	112	B	0.0455	5.78	1
11031	1234678-HpCDD	35822-46-9	113	B	0.0785	5.78	1
11031	OCDD	3268-87-9	229	B	0.0540	11.6	1
11031	2378-TCDF	51207-31-9	23.0		0.0477	1.16	1
11031	12378-PeCDF	57117-41-6	110	B	0.0341	5.78	1
11031	23478-PeCDF	57117-31-4	108	B	0.0328	5.78	1
11031	123478-HxCDF	70648-26-9	114	B	0.0608	5.78	1
11031	123678-HxCDF	57117-44-9	110	B	0.0499	5.78	1
11031	123789-HxCDF	72918-21-9	112	B	0.0592	5.78	1
11031	234678-HxCDF	60851-34-5	113	B	0.0568	5.78	1
11031	1234678-HpCDF	67562-39-4	113	B	0.0450	5.78	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0629	5.78	1
11031	OCDF	39001-02-0	231	B	0.0714	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189720
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-253-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SB-3.0-4.0

LLI Sample # SW 6189720
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:15

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4304 SDG#: DX043-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/11/2011 19:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-254-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189721
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4305 SDG#: DX043-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-254-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189721
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4305 SDG#: DX043-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	JB	0.0219	1.11	1
11031	12378-PeCDD	40321-76-4	0.158	JB	0.0211	5.53	1
11031	123478-HxCDD	39227-28-6	0.133	JB	0.0320	5.53	1
11031	123678-HxCDD	57653-85-7	0.170	JB	0.0336	5.53	1
11031	123789-HxCDD	19408-74-3	0.238	JB	0.0304	5.53	1
11031	1234678-HpCDD	35822-46-9	1.13	JB	0.0441	5.53	1
11031	OCDD	3268-87-9	15.2	B	0.0215	11.1	1
11031	2378-TCDF	51207-31-9	0.0400	JQ	0.0243	1.11	1
11031	12378-PeCDF	57117-41-6	0.129	JBQ	0.0125	5.53	1
11031	23478-PeCDF	57117-31-4	0.215	JBQ	0.0133	5.53	1
11031	123478-HxCDF	70648-26-9	0.207	JB	0.0298	5.53	1
11031	123678-HxCDF	57117-44-9	0.181	JBQ	0.0211	5.53	1
11031	123789-HxCDF	72918-21-9	0.207	JB	0.0248	5.53	1
11031	234678-HxCDF	60851-34-5	0.267	JB	0.0231	5.53	1
11031	1234678-HpCDF	67562-39-4	0.547	JB	0.0163	5.53	1
11031	1234789-HpCDF	55673-89-7	0.233	JB	0.0280	5.53	1
11031	OCDF	39001-02-0	0.768	JB	0.0434	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-254-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189721
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4305 SDG#: DX043-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-254-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SB-3.5-4.5

LLI Sample # SW 6189721
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:59

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4305 SDG#: DX043-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/11/2011 20:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189722
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4306 SDG#: DX043-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189722
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4306 SDG#: DX043-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0690 JBQ	0.0275	1.16	1
11031	12378-PeCDD	40321-76-4	0.171 JBQ	0.0278	5.79	1
11031	123478-HxCDD	39227-28-6	0.0945 JBQ	0.0303	5.79	1
11031	123678-HxCDD	57653-85-7	0.217 JB	0.0301	5.79	1
11031	123789-HxCDD	19408-74-3	0.367 JB	0.0289	5.79	1
11031	1234678-HpCDD	35822-46-9	0.748 JBQ	0.0469	5.79	1
11031	OCDD	3268-87-9	5.01 JB	0.0316	11.6	1
11031	2378-TCDF	51207-31-9	0.0374 JQ	0.0258	1.16	1
11031	12378-PeCDF	57117-41-6	0.199 JB	0.0130	5.79	1
11031	23478-PeCDF	57117-31-4	0.189 JBQ	0.0135	5.79	1
11031	123478-HxCDF	70648-26-9	0.159 JB	0.0333	5.79	1
11031	123678-HxCDF	57117-44-9	0.148 JB	0.0241	5.79	1
11031	123789-HxCDF	72918-21-9	0.503 JB	0.0328	5.79	1
11031	234678-HxCDF	60851-34-5	0.217 JBQ	0.0287	5.79	1
11031	1234678-HpCDF	67562-39-4	0.534 JB	0.0172	5.79	1
11031	1234789-HpCDF	55673-89-7	0.179 JB	0.0304	5.79	1
11031	OCDF	39001-02-0	0.603 JB	0.0630	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189722
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4306 SDG#: DX043-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP20-SA5B-QC-012111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP20-SA5B-QC-012111

LLI Sample # SW 6189722
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 13:04

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4306 SDG#: DX043-06FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 00:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401A	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189723
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4307 SDG#: DX043-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-307-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189723
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4307 SDG#: DX043-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0345	JB	0.0302	1.11	1
11031	12378-PeCDD	40321-76-4	0.148	JBQ	0.0263	5.54	1
11031	123478-HxCDD	39227-28-6	0.0799	JBQ	0.0269	5.54	1
11031	123678-HxCDD	57653-85-7	0.124	JBQ	0.0268	5.54	1
11031	123789-HxCDD	19408-74-3	0.166	JB	0.0263	5.54	1
11031	1234678-HpCDD	35822-46-9	0.412	JB	0.0376	5.54	1
11031	OCDD	3268-87-9	1.22	JB	0.0287	11.1	1
11031	2378-TCDF	51207-31-9	0.0630	J	0.0323	1.11	1
11031	12378-PeCDF	57117-41-6	0.182	JBQ	0.0173	5.54	1
11031	23478-PeCDF	57117-31-4	0.193	JB	0.0181	5.54	1
11031	123478-HxCDF	70648-26-9	0.170	JB	0.0274	5.54	1
11031	123678-HxCDF	57117-44-9	0.162	JBQ	0.0196	5.54	1
11031	123789-HxCDF	72918-21-9	0.166	JB	0.0274	5.54	1
11031	234678-HxCDF	60851-34-5	0.166	JBQ	0.0228	5.54	1
11031	1234678-HpCDF	67562-39-4	0.430	JB	0.0160	5.54	1
11031	1234789-HpCDF	55673-89-7	0.157	JB	0.0299	5.54	1
11031	OCDF	39001-02-0	0.475	JBQ	0.0538	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-307-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189723
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4307 SDG#: DX043-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-4.0-5.0

LLI Sample # SW 6189723
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 14:58

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4307 SDG#: DX043-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 01:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189724
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4308 SDG#: DX043-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	17.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189724
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4308 SDG#: DX043-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0258	U	0.0258	1.21	1
11031	12378-PeCDD	40321-76-4	0.130	JBQ	0.0227	6.04	1
11031	123478-HxCDD	39227-28-6	0.0510	JB	0.0258	6.04	1
11031	123678-HxCDD	57653-85-7	0.0878	JBQ	0.0260	6.04	1
11031	123789-HxCDD	19408-74-3	0.145	JB	0.0231	6.04	1
11031	1234678-HpCDD	35822-46-9	0.386	JBQ	0.0338	6.04	1
11031	OCDD	3268-87-9	1.19	JB	0.0312	12.1	1
11031	2378-TCDF	51207-31-9	0.0248	U	0.0248	1.21	1
11031	12378-PeCDF	57117-41-6	0.139	JBQ	0.0135	6.04	1
11031	23478-PeCDF	57117-31-4	0.147	JB	0.0139	6.04	1
11031	123478-HxCDF	70648-26-9	0.144	JB	0.0295	6.04	1
11031	123678-HxCDF	57117-44-9	0.0909	JBQ	0.0188	6.04	1
11031	123789-HxCDF	72918-21-9	0.215	JB	0.0221	6.04	1
11031	234678-HxCDF	60851-34-5	0.191	JB	0.0188	6.04	1
11031	1234678-HpCDF	67562-39-4	0.399	JBQ	0.0156	6.04	1
11031	1234789-HpCDF	55673-89-7	0.0846	JBQ	0.0258	6.04	1
11031	OCDF	39001-02-0	0.500	JB	0.0516	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	103	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-307-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189724
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4308 SDG#: DX043-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-9.0-10.0

LLI Sample # SW 6189724
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:08

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4308 SDG#: DX043-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 02:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Analysis Report

Sample Description: **SL-307-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189725
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4309 SDG#: DX043-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	18.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-307-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189725
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4309 SDG#: DX043-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0510 JBQ	0.0361	1.22	1
11031	12378-PeCDD	40321-76-4	0.0550 JBQ	0.0333	6.12	1
11031	123478-HxCDD	39227-28-6	0.0433 JB	0.0326	6.12	1
11031	123678-HxCDD	57653-85-7	0.0954 JBQ	0.0322	6.12	1
11031	123789-HxCDD	19408-74-3	0.107 JBQ	0.0312	6.12	1
11031	1234678-HpCDD	35822-46-9	0.475 JBQ	0.0580	6.12	1
11031	OCDD	3268-87-9	3.52 JB	0.0449	12.2	1
11031	2378-TCDF	51207-31-9	0.0477 U	0.0477	1.22	1
11031	12378-PeCDF	57117-41-6	0.0828 JBQ	0.0201	6.12	1
11031	23478-PeCDF	57117-31-4	0.117 JBQ	0.0213	6.12	1
11031	123478-HxCDF	70648-26-9	0.0937 JB	0.0272	6.12	1
11031	123678-HxCDF	57117-44-9	0.0690 JB	0.0213	6.12	1
11031	123789-HxCDF	72918-21-9	0.189 JB	0.0274	6.12	1
11031	234678-HxCDF	60851-34-5	0.110 JB	0.0269	6.12	1
11031	1234678-HpCDF	67562-39-4	0.320 JB	0.0174	6.12	1
11031	1234789-HpCDF	55673-89-7	0.0724 JB	0.0335	6.12	1
11031	OCDF	39001-02-0	0.469 JBQ	0.0902	12.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189725
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4309 SDG#: DX043-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-307-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-307-SA5B-SB-14.0-15.0

LLI Sample # SW 6189725
LLI Group # 1230155
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/21/2011 15:18

Submitted: 01/22/2011 10:00
Reported: 02/28/2011 21:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4309 SDG#: DX043-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 03:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230155
Reported: 02/28/11 at 09:37 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11027162401A	Sample number(s): 6189718-6189722								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11039162401A	Sample number(s): 6189715-6189717,6189723-6189725								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11033001	Sample number(s): 6189715-6189725								
2378-TCDD	0.0391 J	0.0263	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0957 J	0.0238	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0565 J	0.0219	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0638 J	0.0231	5.00	ng/kg	100		76-134		
123789-HxCDD	0.0761 J	0.0217	5.00	ng/kg	97		64-162		
1234678-HpCDD	0.355 J	0.0328	5.00	ng/kg	98		70-140		
OCDD	0.568 J	0.0255	10.0	ng/kg	99		78-144		
2378-TCDF	0.0284 U	0.0284	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0858 J	0.0126	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0990 J	0.0131	5.00	ng/kg	97		68-160		
123478-HxCDF	0.119 J	0.0215	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0953 J	0.0166	5.00	ng/kg	97		84-130		
123789-HxCDF	0.107 J	0.0193	5.00	ng/kg	98		78-130		
234678-HxCDF	0.145 J	0.0195	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.362 J	0.0133	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.100 J	0.0196	5.00	ng/kg	100		78-138		
OCDF	0.435 J	0.0459	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11027162401A	Sample number(s): 6189718-6189722 BKG: P189705								
28a Moisture Content by 160.3						13.5	14.1	4	20
Batch number: 11039162401A	Sample number(s): 6189715-6189717,6189723-6189725 BKG: P190392								
28a Moisture Content by 160.3						12.1	12.0	1	20
Batch number: 11033001	Sample number(s): 6189715-6189725 UNSPK: 6189718								
2378-TCDD	95	97	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230155
Reported: 02/28/11 at 09:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	96	93	70-142	3	25				
123478-HxCDD	98	99	70-164	1	25				
123678-HxCDD	98	99	76-134	1	25				
123789-HxCDD	96	97	64-162	1	25				
1234678-HpCDD	96	98	70-140	1	25				
OCDD	97	97	78-144	0	25				
2378-TCDF	100	99	75-158	0	25				
12378-PeCDF	96	95	80-134	1	25				
23478-PeCDF	96	93	68-160	3	25				
123478-HxCDF	101	99	72-134	2	25				
123678-HxCDF	96	95	84-130	1	25				
123789-HxCDF	98	96	78-130	2	25				
234678-HxCDF	99	97	70-156	1	25				
1234678-HpCDF	98	98	82-122	0	25				
1234789-HpCDF	98	98	78-138	1	25				
OCDF	101	100	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11033001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6189715	72	72	41	54	70	70
6189716	77	74	74	86	80	77
6189717	83	76	57	79	78	81
6189718	73	58	63	86	76	70
6189719	70	66	63	75	74	80
6189720	69	69	67	77	71	75
6189721	78	73	62	81	75	83
6189722	91	82	74	97	83	82
6189723	69	67	59	80	70	67
6189724	80	77	52	77	78	77
6189725	66	64	59	73	61	70
Blank	81	76	70	87	78	88
MS	70	66	63	75	74	80
MSD	69	69	67	77	71	75
OPR	70	67	69	87	72	84
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6189715	62	71	70	85	98	66
6189716	114	78	78	88	97	84
6189717	102	72	67	89	109	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230155
Reported: 02/28/11 at 09:37 PM

Surrogate Quality Control

6189718	103	73	73	67	84	82
6189719	91	71	67	88	86	81
6189720	84	71	71	83	88	76
6189721	98	70	68	89	94	79
6189722	105	71	65	105	90	91
6189723	94	61	55	90	91	77
6189724	96	70	59	89	103	84
6189725	91	56	51	81	88	70
Blank	92	75	78	99	81	86
MS	91	71	67	88	86	81
MSD	84	71	71	83	88	76
OPR	99	71	70	90	74	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6189715	72	80	79	83	63	74
6189716	89	85	94	92	72	77
6189717	85	91	96	93	77	86
6189718	84	88	92	99	68	84
6189719	79	83	83	83	64	77
6189720	76	79	80	83	65	71
6189721	78	84	88	90	70	81
6189722	93	96	93	92	81	95
6189723	78	81	83	81	65	76
6189724	87	94	93	85	74	87
6189725	72	74	74	72	61	71
Blank	84	86	87	93	76	83
MS	79	83	83	83	64	77
MSD	76	79	80	83	65	71
OPR	79	81	88	90	67	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct #13013 Ap# 1230155 Sample# 6189715-25

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 82608 $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-308-SA5B-SB-4.0-5.0	01.21.11	1115	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-308-SA5B-SB-4.5	01.21.11	1110	SOIL	NONE	5 ENCORES											X	X	X											
SL-308-SA5B-SB-9.0-10.0	01.21.11	1129	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-308-SA5B-SB-9.5	01.21.11	1125	SOIL	NONE	5 Encores											X	X	X											
SL-308-SA5B-SB-14.0-15.0	01.21.11	1139	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-308-SA5B-SB-14.5	01.21.11	1135	SOIL	NONE	5 ENCORES											X	X	X											
EB25-SA5B-012111	01.21.11	1230	WATER	NONE	4 1L AMBERS															X			X	X		X			SUBSURFACE RINSATE
EB25-SA5B-012111	01.21.11	1230	WATER	NONE	1-250 mL glass														X			X							SUBSURFACE RINSATE
EB25-SA5B-012111	01.21.11	1230	WATER	NaOH	1-500mL poly																				X				SUBSURFACE RINSATE
EB25-SA5B-012111	01.21.11	1230	WATER	HCl	5-40 mL VOA VIALS													X										X	SUBSURFACE RINSATE
EB25-SA5B-012111	01.21.11	1230	WATER	NONE	4-40 mL VOA VIALS																X						X		SUBSURFACE RINSATE
SL-253-SA5B-SB-3.0-4.0MS	01.21.11	1315	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X																	MS/MSD
SL-253-SA5B-SB-3.5MS	01.21.11	1309	SOIL	NONE	12 ENCORES											X	X												MS/MSD
SL-254-SA5B-SB-3.5-4.5	01.21.11	1359	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-254-SA5B-SB-4.0	01.21.11	1354	SOIL	NONE	4 ENCORES											X	X												
DUP20-SA5B-QC-012111	01.21.11	1304	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	FIELD DUPLICATE
DUP20-SA5B-QC-012111	01.21.11	1304	SOIL	NONE	4 ENCORES											X	X												FIELD DUPLICATE
SL-307-SA5B-SB-4.5	01.21.11	1453	SOIL	NONE	5 ENCORES											X	X	X											
SL-307-SA5B-SB-4.0-5.0	01.21.11	1458	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-307-SA5B-SB-9.5	01.21.11	1503	SOIL	NONE	5 ENCORES											X	X	X											
SL-307-SA5B-SB-9.0-10.0	01.21.11	1508	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-307-SA5B-SB-14.5	01.21.11	1515	SOIL	NONE	5 ENCORES											X	X	X											
SL-307-SA5B-SB-14.0-15.0	01.21.11	1518	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
TB-012111	01.21.11	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature) — Date/Time: 1/21/2011, 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 1/21/11 — Airbill No.(s): 8695 1432 2328, ...2339, ...2340

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/25/2011
Group Number: 1230289
SDG: DE067
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA5B-SB-4.0-5.0 Soil	6190381
SL-032-SA5B-SB-9.0-10.0 Soil	6190382
SL-032-SA5B-SB-14.0-15.0 Soil	6190383
SL-033-SA5B-SB-4.0-5.0 Soil	6190384
SL-033-SA5B-SB-9.0-10.0 Soil	6190385
SL-033-SA5B-SB-14.0-15.0 Soil	6190386
SL-151-SA5B-SB-4.0-5.0 Soil	6190387
SL-151-SA5B-SB-7.0-8.0 Soil	6190388
SL-152-SA5B-SB-4.0-5.0 Soil	6190389
SL-152-SA5B-SB-9.0-10.0 Soil	6190390
SL-153-SA5B-SB-4.0-5.0 Soil	6190391
SL-154-SA5B-SB-4.0-5.0 Soil	6190392
SL-155-SA5B-SB-3.5-4.5 Soil	6190393
TB-012411 Water	6190394

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE067-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	73		6.7	8.0		0.9
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	10		1.2	8.0		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.9
06192	Methylene Chloride	75-09-2	1.4	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE067-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	J	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	42.4		18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-032-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE067-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.43	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1

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Sample Description: SL-032-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE067-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.15
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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Sample Description: SL-032-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE067-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.7		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	9.9		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	22		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.8	U	7.8	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the							

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Sample Description: **SL-032-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE067-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls		**SW-846 8015B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.59	22.2		1
07914	Boron	7440-42-8	5.74		0.989	5.56		1
01650	Calcium	7440-70-2	10,400		6.81	22.2		1
01654	Iron	7439-89-6	16,700		5.23	22.2		1
01656	Lithium	7439-93-2	18.6		0.24	2.2		1
01657	Magnesium	7439-95-4	3,960		2.82	11.1		1
06958	Manganese	7439-96-5	239		0.0867	0.556		1
10145	Phosphorus	7723-14-0	328		0.622	11.1		1
01662	Potassium	7440-09-7	2,800		20.0	55.6		1
01667	Sodium	7440-23-5	356		41.4	111		1
07968	Strontium	7440-24-6	27.5		0.0689	0.556		1
06969	Tin	7440-31-5	2.47	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,000		0.422	1.11		1
10146	Zirconium	7440-67-7	2.41	J	0.933	5.56		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	3.13		0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	70.5		0.0855	0.427		2
06126	Barium	7440-39-3	88.5		0.115	0.427		2
06127	Beryllium	7440-41-7	0.581		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.300		0.0427	0.107		2
06131	Chromium	7440-47-3	15.3		0.128	0.427		2
06132	Cobalt	7440-48-4	6.53		0.0214	0.107		2
06133	Copper	7440-50-8	8.16		0.0705	0.427		2
06135	Lead	7439-92-1	9.81		0.0111	0.214		2
06138	Molybdenum	7439-98-7	2.58		0.0534	0.107		2
06139	Nickel	7440-02-0	18.0		0.107	0.427		2
06141	Selenium	7782-49-2	0.474		0.0427	0.427		2
06142	Silver	7440-22-4	0.0318	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.324		0.0321	0.107		2
06148	Vanadium	7440-62-2	52.0		0.0235	0.107		2
06149	Zinc	7440-66-6	66.5		0.598	3.21		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0147	J	0.0031	0.108		1

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Sample Description: **SL-032-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0324 SDG#: DE067-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.1		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.88	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	359		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.52		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011	03:15	Angela D Sneeringer	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	14:52	Jason M Long	22.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011	16:57	Lois E Hiltz	n.a.

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Sample Description: **SL-032-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:00	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 16:54	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 16:53	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 03:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 03:53	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 11:11	Elizabeth J Marin	21.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 16:53	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 10:56	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 20:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 18:04	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 05:09	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 07:05	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 18:26	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 06:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
01650	Calcium	SW-846 6010B	2	110275708001	02/03/2011 12:00	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	02/03/2011 12:00	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	2	110275708001	02/03/2011 12:00	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
01667	Sodium	SW-846 6010B	2	110275708001	02/03/2011 12:00	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-032-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190381
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE067-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 12:23	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 07:14	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:26	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:26	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 07:14	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:26	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 07:14	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 07:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 04:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201A	02/09/2011 04:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201A	02/07/2011 13:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11038243201A	02/09/2011 15:58	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11034102201A	02/03/2011 21:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201A	02/07/2011 11:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11034102201A	02/03/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE067-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	54		6.0	7.1		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.81
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.81
06192	Bromomethane	74-83-9	0.22	U	0.22	3.6		0.81
06192	2-Butanone	78-93-3	9.7		1.1	7.1		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.81
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.81
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.6		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.81
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.81
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63	U	0.63	3.6		0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.81
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.81
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.6		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.6		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.81
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.6		0.81
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.81
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.81
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.6		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.81
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.81
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.81
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.81
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.1		0.81
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.81
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.1		0.81
06192	Methylene Chloride	75-09-2	0.49	J	0.21	3.6		0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.81

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Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE067-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.81
06192	Toluene	108-88-3	0.08	J	0.07	3.6		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.81
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.6		0.81
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.81
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.81
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.81
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.49
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	53.9		18.5	37.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE067-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.46	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE067-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.39
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1

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Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE067-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	7,500		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.77	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	15		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	38		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	10	U	10	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

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Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE067-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.47	21.8		1
07914	Boron	7440-42-8	3.08	J	0.968	5.44		1
01650	Calcium	7440-70-2	2,080		6.67	21.8		1
01654	Iron	7439-89-6	18,300		5.13	21.8		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,650		2.76	10.9		1
06958	Manganese	7439-96-5	251		0.0849	0.544		1
10145	Phosphorus	7723-14-0	324		0.609	10.9		1
01662	Potassium	7440-09-7	3,160		19.6	54.4		1
01667	Sodium	7440-23-5	146		40.6	109		1
07968	Strontium	7440-24-6	17.5		0.0675	0.544		1
06969	Tin	7440-31-5	2.36	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,140		0.413	1.09		1
10146	Zirconium	7440-67-7	2.22	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.45		0.0879	0.440		2
06126	Barium	7440-39-3	100		0.119	0.440		2
06127	Beryllium	7440-41-7	0.523		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.146		0.0440	0.110		2
06131	Chromium	7440-47-3	15.3		0.132	0.440		2
06132	Cobalt	7440-48-4	5.09		0.0220	0.110		2
06133	Copper	7440-50-8	9.26		0.0725	0.440		2
06135	Lead	7439-92-1	5.52		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.874		0.0549	0.110		2
06139	Nickel	7440-02-0	13.3		0.110	0.440		2
06141	Selenium	7782-49-2	0.107	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0291	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.249		0.0330	0.110		2
06148	Vanadium	7440-62-2	28.9		0.0242	0.110		2
06149	Zinc	7440-66-6	51.4		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1

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Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE067-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	400		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.71		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 04:00	Angela D Sneeringer	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 15:12	Jason M Long	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:03	Lois E Hiltz	n.a.

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Sample Description: **SL-032-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0329 SDG#: DE067-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:00	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:00	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 17:10	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 04:18	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 13:08	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 11:48	Elizabeth J Marin	20.39
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 16:59	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 11:38	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 20:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 18:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 04:19	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 07:19	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 19:36	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 09:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1

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Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190382
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE067-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 12:47	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 07:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:37	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:37	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 07:32	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:37	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 07:32	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 07:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 05:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201A	02/09/2011 05:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201A	02/07/2011 14:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11038243201A	02/09/2011 16:17	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11034102201A	02/03/2011 21:25	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201A	02/07/2011 11:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11034102201A	02/03/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0321 SDG#: DE067-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		5.7	6.8		0.75
06192	Benzene	71-43-2	0.08	U	0.08	3.4		0.75
06192	Bromobenzene	108-86-1	0.11	U	0.11	3.4		0.75
06192	Bromochloromethane	74-97-5	0.28	U	0.28	3.4		0.75
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.4		0.75
06192	Bromoform	75-25-2	0.34	U	0.34	3.4		0.75
06192	Bromomethane	74-83-9	0.21	U	0.21	3.4		0.75
06192	2-Butanone	78-93-3	1.5	J	1.0	6.8		0.75
06192	n-Butylbenzene	104-51-8	0.10	U	0.10	3.4		0.75
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.4		0.75
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.4		0.75
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.4		0.75
06192	Chlorobenzene	108-90-7	0.09	U	0.09	3.4		0.75
06192	Chloroethane	75-00-3	0.11	U	0.11	3.4		0.75
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.25	U	0.25	3.4		0.75
06192	Chloroform	67-66-3	0.10	U	0.10	3.4		0.75
06192	Chloromethane	74-87-3	0.28	U	0.28	3.4		0.75
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.4		0.75
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.4		0.75
06192	Chlorotrifluoroethene	79-38-9	0.42	U	0.42	4.2		0.75
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.59	U	0.59	3.4		0.75
06192	Dibromochloromethane	124-48-1	0.17	U	0.17	3.4		0.75
06192	1,2-Dibromoethane	106-93-4	0.14	U	0.14	3.4		0.75
06192	Dibromomethane	74-95-3	0.20	U	0.20	3.4		0.75
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.4		0.75
06192	1,3-Dichlorobenzene	541-73-1	0.10	U	0.10	3.4		0.75
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.4		0.75
06192	Dichlorodifluoromethane	75-71-8	0.10	U	0.10	3.4		0.75
06192	1,1-Dichloroethane	75-34-3	0.08	U	0.08	3.4		0.75
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.4		0.75
06192	1,1-Dichloroethene	75-35-4	0.33	U	0.33	3.4		0.75
06192	cis-1,2-Dichloroethene	156-59-2	0.16	U	0.16	3.4		0.75
06192	trans-1,2-Dichloroethene	156-60-5	0.10	U	0.10	3.4		0.75
06192	1,2-Dichloropropane	78-87-5	0.14	U	0.14	3.4		0.75
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.4		0.75
06192	2,2-Dichloropropane	594-20-7	0.14	U	0.14	3.4		0.75
06192	1,1-Dichloropropene	563-58-6	0.11	U	0.11	3.4		0.75
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.4		0.75
06192	trans-1,3-Dichloropropene	10061-02-6	0.14	U	0.14	3.4		0.75
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.4		0.75
06192	Freon 113	76-13-1	0.09	U	0.09	3.4		0.75
06192	Freon 133a	75-88-7	0.42	U	0.42	4.2		0.75
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.4		0.75
06192	2-Hexanone	591-78-6	1.4	U	1.4	6.8		0.75
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.4		0.75
06192	p-Isopropyltoluene	99-87-6	0.09	U	0.09	3.4		0.75
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.18	U	0.18	3.4		0.75
06192	4-Methyl-2-pentanone	108-10-1	0.33	U	0.33	6.8		0.75
06192	Methylene Chloride	75-09-2	0.39	J	0.20	3.4		0.75
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.4		0.75

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Sample Description: **SL-032-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0321 SDG#: DE067-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.08	U	0.08	3.4		0.75
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.09	U	0.09	3.4		0.75
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.19	U	0.19	3.4		0.75
06192	Tetrachloroethene	127-18-4	0.17	U	0.17	3.4		0.75
06192	Toluene	108-88-3	0.07	U	0.07	3.4		0.75
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.4		0.75
06192	1,2,4-Trichlorobenzene	120-82-1	0.15	U	0.15	3.4		0.75
06192	1,1,1-Trichloroethane	71-55-6	0.17	U	0.17	3.4		0.75
06192	1,1,2-Trichloroethane	79-00-5	0.23	U	0.23	3.4		0.75
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.4		0.75
06192	Trichlorofluoromethane	75-69-4	0.24	U	0.24	3.4		0.75
06192	1,2,3-Trichloropropane	96-18-4	0.28	U	0.28	3.4		0.75
06192	1,2,4-Trimethylbenzene	95-63-6	0.34	U	0.34	3.4		0.75
06192	1,3,5-Trimethylbenzene	108-67-8	0.08	U	0.08	3.4		0.75
06192	Vinyl Chloride	75-01-4	0.17	U	0.17	3.4		0.75
06192	m+p-Xylene	179601-23-1	0.14	U	0.14	3.4		0.75
06192	o-Xylene	95-47-6	0.14	U	0.14	3.4		0.75
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	20.5	J	18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: **SL-032-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0321 SDG#: DE067-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	9.2	J	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Sample Description: SL-032-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
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Project Name: SSFL Area IV Collocated Soil Sampling

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S0321 SDG#: DE067-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1

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Sample Description: SL-032-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0321 SDG#: DE067-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	9,400		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.77	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	420	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.9	U	7.9	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

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Sample Description: SL-032-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0321 SDG#: DE067-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.51	21.9		1
07914	Boron	7440-42-8	2.88	J	0.975	5.48		1
01650	Calcium	7440-70-2	1,590		6.72	21.9		1
01654	Iron	7439-89-6	17,900		5.16	21.9		1
01656	Lithium	7439-93-2	17.7		0.24	2.2		1
01657	Magnesium	7439-95-4	3,000		2.78	11.0		1
06958	Manganese	7439-96-5	236		0.0855	0.548		1
10145	Phosphorus	7723-14-0	278		0.614	11.0		1
01662	Potassium	7440-09-7	2,400		19.7	54.8		1
01667	Sodium	7440-23-5	117		40.9	110		1
07968	Strontium	7440-24-6	18.0		0.0679	0.548		1
06969	Tin	7440-31-5	2.54	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,050		0.416	1.10		1
10146	Zirconium	7440-67-7	1.89	J	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0872	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.33		0.0894	0.447		2
06126	Barium	7440-39-3	93.4		0.121	0.447		2
06127	Beryllium	7440-41-7	0.576		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.107	J	0.0447	0.112		2
06131	Chromium	7440-47-3	14.2		0.134	0.447		2
06132	Cobalt	7440-48-4	5.46		0.0223	0.112		2
06133	Copper	7440-50-8	8.50		0.0738	0.447		2
06135	Lead	7439-92-1	4.81		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.598		0.0559	0.112		2
06139	Nickel	7440-02-0	10.9		0.112	0.447		2
06141	Selenium	7782-49-2	0.0812	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0443	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.288		0.0335	0.112		2
06148	Vanadium	7440-62-2	27.2		0.0246	0.112		2
06149	Zinc	7440-66-6	47.2		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0044	J	0.0032	0.111		1

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Sample Description: SL-032-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0321 SDG#: DE067-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA5B-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 05:53	Angela D Sneeringer	0.75
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 15:32	Jason M Long	20.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:09	Lois E Hiltz	n.a.

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Sample Description: **SL-032-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0321 SDG#: DE067-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:06	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 17:27	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 04:44	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 13:41	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 12:24	Elizabeth J Marin	20.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:05	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 12:21	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 20:35	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 18:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/04/2011 23:20	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 07:34	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 19:54	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 00:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1

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Sample Description: **SL-032-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190383
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0321 SDG#: DE067-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 12:58	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 07:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:39	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:39	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 07:36	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:39	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 07:36	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 07:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 05:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201A	02/09/2011 05:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201A	02/07/2011 14:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11038243201A	02/09/2011 16:23	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11034102201A	02/03/2011 21:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201A	02/07/2011 11:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11034102201A	02/03/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182102A	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402A	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190384
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0334 SDG#: DE067-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.84
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.84
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.84
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.84
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.84
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.84
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.84
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.84
06192	Methylene Chloride	75-09-2	0.41	J	0.22	3.7		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.84

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SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190384
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

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Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
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Suite 210
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S0334 SDG#: DE067-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.84
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.84
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.15
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	24.0	J	18.4	36.9		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190384
LLI Group # 1230289
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S0334 SDG#: DE067-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.92	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	3.8		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.9		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.9		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	7.0		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	120	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	13	U	13	14		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190384
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0334 SDG#: DE067-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	5,930		5.46	21.7		1
07914	Boron	7440-42-8	1.51	J	0.965	5.42		1
01650	Calcium	7440-70-2	7,460		6.65	21.7		1
01654	Iron	7439-89-6	7,920		5.11	21.7		1
01656	Lithium	7439-93-2	6.7		0.24	2.2		1
01657	Magnesium	7439-95-4	1,620		2.75	10.8		1
06958	Manganese	7439-96-5	118		0.0846	0.542		1
10145	Phosphorus	7723-14-0	600		0.607	10.8		1
01662	Potassium	7440-09-7	1,140		19.5	54.2		1
01667	Sodium	7440-23-5	141		40.5	108		1
07968	Strontium	7440-24-6	21.0		0.0672	0.542		1
06969	Tin	7440-31-5	1.74	J	1.08	10.8		1
06970	Titanium	7440-32-6	531		0.412	1.08		1
10146	Zirconium	7440-67-7	1.96	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0657	U	0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.16		0.0876	0.438		2
06126	Barium	7440-39-3	88.6		0.118	0.438		2
06127	Beryllium	7440-41-7	0.205		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0803	J	0.0438	0.110		2
06131	Chromium	7440-47-3	10.7		0.131	0.438		2
06132	Cobalt	7440-48-4	3.56		0.0219	0.110		2
06133	Copper	7440-50-8	6.28		0.0723	0.438		2
06135	Lead	7439-92-1	2.96		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.471		0.0548	0.110		2
06139	Nickel	7440-02-0	6.26		0.110	0.438		2
06141	Selenium	7782-49-2	0.0439	J	0.0438	0.438		2

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Sample Description: SL-033-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190384
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0334 SDG#: DE067-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	0.0131 U	0.0131	0.110		2
06145	Thallium	7440-28-0	0.151	0.0329	0.110		2
06148	Vanadium	7440-62-2	20.0	0.0241	0.110		2
06149	Zinc	7440-66-6	52.1	0.613	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4	0.88	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	389	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.57	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-033-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190384
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0334 SDG#: DE067-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 04:46	Angela D Sneeringer	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 15:51	Jason M Long	21.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:16	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:14	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 17:44	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 05:08	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 14:14	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 13:01	Elizabeth J Marin	20.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:13	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 13:03	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 20:44	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110310001A	02/03/2011 14:30	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 19:00	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110310001A	01/31/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 01:50	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 08:18	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 20:47	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 01:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1

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Sample Description: **SL-033-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190384
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0334 SDG#: DE067-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:02	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 07:45	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:44	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:44	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 07:45	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:44	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 07:45	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 07:45	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 06:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201A	02/09/2011 06:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201A	02/07/2011 15:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11038243201A	02/09/2011 16:42	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11034102201A	02/03/2011 21:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201A	02/07/2011 11:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11034102201A	02/03/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-033-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190384
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0334 SDG#: DE067-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0339 SDG#: DE067-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	110		6.6	7.9		0.88
06192	Benzene	71-43-2	0.10	J	0.1	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.39	U	0.39	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	16		1.2	7.9		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.08	J	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.42	J	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.29	J	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.18	J	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.88
06192	Methylene Chloride	75-09-2	1.8	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.09	J	0.07	4.0		0.88

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Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0339 SDG#: DE067-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.10	J	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.20	J	0.17	4.0		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.28
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0339 SDG#: DE067-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	7.1		0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.66	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0339 SDG#: DE067-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.95	J	0.75	1.9		1
10138	Fluorene	86-73-7	1.5	J	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	2.3		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	2.4		0.75	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.4	J	0.75	1.9		1
10138	Pyrene	129-00-0	0.89	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.39
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0339 SDG#: DE067-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	16,000	J	6,700	17,000		10
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.3	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.78	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.50	J	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	2.9		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	9.7		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	23		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	10	U	10	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the							

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Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0339 SDG#: DE067-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		5.52	21.9		1
07914	Boron	7440-42-8	3.71	J	0.976	5.48		1
01650	Calcium	7440-70-2	2,130		6.72	21.9		1
01654	Iron	7439-89-6	17,000		5.17	21.9		1
01656	Lithium	7439-93-2	20.9		0.24	2.2		1
01657	Magnesium	7439-95-4	3,440		2.79	11.0		1
06958	Manganese	7439-96-5	240		0.0855	0.548		1
10145	Phosphorus	7723-14-0	343		0.614	11.0		1
01662	Potassium	7440-09-7	3,100		19.7	54.8		1
01667	Sodium	7440-23-5	117		40.9	110		1
07968	Strontium	7440-24-6	16.9		0.0680	0.548		1
06969	Tin	7440-31-5	2.48	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,040		0.417	1.10		1
10146	Zirconium	7440-67-7	1.83	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.77		0.0886	0.443		2
06126	Barium	7440-39-3	100		0.120	0.443		2
06127	Beryllium	7440-41-7	0.504		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.128		0.0443	0.111		2
06131	Chromium	7440-47-3	15.0		0.133	0.443		2
06132	Cobalt	7440-48-4	5.38		0.0221	0.111		2
06133	Copper	7440-50-8	8.33		0.0731	0.443		2
06135	Lead	7439-92-1	5.05		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.478		0.0554	0.111		2
06139	Nickel	7440-02-0	11.0		0.111	0.443		2
06141	Selenium	7782-49-2	0.112	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0381	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.247		0.0332	0.111		2
06148	Vanadium	7440-62-2	28.4		0.0244	0.111		2
06149	Zinc	7440-66-6	54.1		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0339 SDG#: DE067-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.89	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	299		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-033-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011	05:08	Angela D Sneeringer	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	16:11	Jason M Long	22.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011	17:21	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0339 SDG#: DE067-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:19	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 18:01	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 05:33	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 14:47	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 13:37	Elizabeth J Marin	20.39
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:18	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 13:45	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 22:20	James H Place	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 19:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 04:44	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 08:32	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 21:04	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 12:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190385
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0339 SDG#: DE067-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:06	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 07:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:46	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:46	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 07:48	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:46	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 07:48	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 07:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 06:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201A	02/09/2011 06:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201A	02/07/2011 16:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11038243201A	02/09/2011 16:48	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11034102201A	02/03/2011 21:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201A	02/07/2011 11:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11034102201A	02/03/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Analysis Report

Sample Description: SL-033-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0331 SDG#: DE067-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	33		6.8	8.1		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.92
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.92
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.92
06192	2-Butanone	78-93-3	2.8	J	1.2	8.1		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.92
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.92
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.92
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.92
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.92
06192	Methylene Chloride	75-09-2	0.54	J	0.24	4.1		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.92

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0331 SDG#: DE067-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.92
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.92
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	48.9		18.5	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0331 SDG#: DE067-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.44	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0331 SDG#: DE067-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.4	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	2.1		0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.74	1.9		1
10138	Naphthalene	91-20-3	0.88	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	3.0		0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1

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Sample Description: SL-033-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0331 SDG#: DE067-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	10,000		1,300	3,300		2
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.99	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.9		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	3.3		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	5.8		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.9	U	8.9	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

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Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0331 SDG#: DE067-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.38	21.4		1
07914	Boron	7440-42-8	1.60	J	0.952	5.35		1
01650	Calcium	7440-70-2	2,250		6.56	21.4		1
01654	Iron	7439-89-6	16,500		5.04	21.4		1
01656	Lithium	7439-93-2	20.7		0.24	2.1		1
01657	Magnesium	7439-95-4	3,350		2.72	10.7		1
06958	Manganese	7439-96-5	237		0.0834	0.535		1
10145	Phosphorus	7723-14-0	323		0.599	10.7		1
01662	Potassium	7440-09-7	2,920		19.3	53.5		1
01667	Sodium	7440-23-5	108		39.9	107		1
07968	Strontium	7440-24-6	12.7		0.0663	0.535		1
06969	Tin	7440-31-5	2.41	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,010		0.406	1.07		1
10146	Zirconium	7440-67-7	1.10	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0691	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.09		0.0856	0.428		2
06126	Barium	7440-39-3	90.4		0.116	0.428		2
06127	Beryllium	7440-41-7	0.539		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0708	J	0.0428	0.107		2
06131	Chromium	7440-47-3	14.6		0.128	0.428		2
06132	Cobalt	7440-48-4	5.17		0.0214	0.107		2
06133	Copper	7440-50-8	8.51		0.0706	0.428		2
06135	Lead	7439-92-1	5.41		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.489		0.0535	0.107		2
06139	Nickel	7440-02-0	10.8		0.107	0.428		2
06141	Selenium	7782-49-2	0.115	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0370	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.262		0.0321	0.107		2
06148	Vanadium	7440-62-2	28.4		0.0235	0.107		2
06149	Zinc	7440-66-6	55.0		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1

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Sample Description: SL-033-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0331 SDG#: DE067-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.7		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	314		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.72		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-033-SA5B-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 05:30	Angela D Sneeringer	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 16:31	Jason M Long	23.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:27	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0331 SDG#: DE067-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:24	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 18:18	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 08:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 15:19	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 14:14	Elizabeth J Marin	20
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:24	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 15:52	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 22:30	James H Place	2
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 20:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 03:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 08:47	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 21:22	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 01:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1

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Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190386
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0331 SDG#: DE067-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:10	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 07:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:48	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:48	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 07:51	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:48	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 07:51	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 07:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 06:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201A	02/09/2011 06:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201A	02/07/2011 16:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11038243201A	02/09/2011 17:06	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11034102201A	02/03/2011 21:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201A	02/07/2011 11:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11034102201A	02/03/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-151-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190387
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1514 SDG#: DE067-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.91
06192	Methylene Chloride	75-09-2	0.48	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-151-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190387
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1514 SDG#: DE067-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.28
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Sample Description: SL-151-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190387
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1514 SDG#: DE067-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190387
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1514 SDG#: DE067-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,300		5.69	22.6		1
07914	Boron	7440-42-8	2.11	J	1.01	5.66		1
01650	Calcium	7440-70-2	2,950		6.94	22.6		1
01654	Iron	7439-89-6	25,500		5.33	22.6		1
01656	Lithium	7439-93-2	34.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,390		2.88	11.3		1
06958	Manganese	7439-96-5	303		0.0883	0.566		1
10145	Phosphorus	7723-14-0	186		0.634	11.3		1
01662	Potassium	7440-09-7	1,850		20.4	56.6		1
01667	Sodium	7440-23-5	117		42.2	113		1
07968	Strontium	7440-24-6	23.6		0.0702	0.566		1
06969	Tin	7440-31-5	2.89	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,220		0.430	1.13		1
10146	Zirconium	7440-67-7	2.43	J	0.951	5.66		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0713	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.70		0.0888	0.444		2
06126	Barium	7440-39-3	118		0.120	0.444		2
06127	Beryllium	7440-41-7	0.795		0.0178	0.111		2

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Sample Description: **SL-151-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190387
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1514 SDG#: DE067-07

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium		7440-43-9	0.0687 J	0.0444	0.111		2
06131	Chromium		7440-47-3	22.8	0.133	0.444		2
06132	Cobalt		7440-48-4	7.01	0.0222	0.111		2
06133	Copper		7440-50-8	7.45	0.0733	0.444		2
06135	Lead		7439-92-1	6.94	0.0115	0.222		2
06138	Molybdenum		7439-98-7	0.561	0.0555	0.111		2
06139	Nickel		7440-02-0	16.1	0.111	0.444		2
06141	Selenium		7782-49-2	0.0857 J	0.0444	0.444		2
06142	Silver		7440-22-4	0.0429 J	0.0133	0.111		2
06145	Thallium		7440-28-0	0.294	0.0333	0.111		2
06148	Vanadium		7440-62-2	42.6	0.0244	0.111		2
06149	Zinc		7440-66-6	46.9	0.622	3.33		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0124 J	0.0033	0.114		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.5	0.92	1.2		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.4 U	10.4	34.6		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.45 J	0.23	1.2		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	431	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.26	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	13.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-151-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190387
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1514 SDG#: DE067-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-151-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/27/2011 23:52	Angela D Sneeringer	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 16:50	Jason M Long	23.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:29	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 09:14	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 15:52	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 20:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 07:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:50	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:50	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2

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Sample Description: **SL-151-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190387
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1514 SDG#: DE067-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 07:55	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:50	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 07:55	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 07:55	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 08:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11042042201B	02/18/2011 04:44	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11038243201A	02/09/2011 17:12	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-151-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190388
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1517 SDG#: DE067-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190388
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1517 SDG#: DE067-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.0	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190388
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1517 SDG#: DE067-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		5.76	22.9		1
07914	Boron	7440-42-8	1.72	J	1.02	5.72		1
01650	Calcium	7440-70-2	3,510		7.02	22.9		1
01654	Iron	7439-89-6	23,600		5.39	22.9		1
01656	Lithium	7439-93-2	35.3		0.25	2.3		1
01657	Magnesium	7439-95-4	4,250		2.91	11.4		1
06958	Manganese	7439-96-5	178		0.0893	0.572		1
10145	Phosphorus	7723-14-0	269		0.641	11.4		1
01662	Potassium	7440-09-7	2,080		20.6	57.2		1
01667	Sodium	7440-23-5	120		42.7	114		1
07968	Strontium	7440-24-6	22.4		0.0710	0.572		1
06969	Tin	7440-31-5	2.89	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,150		0.435	1.14		1
10146	Zirconium	7440-67-7	2.27	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0888	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.03		0.0898	0.449		2
06126	Barium	7440-39-3	68.1		0.121	0.449		2
06127	Beryllium	7440-41-7	0.578		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0470	J	0.0449	0.112		2
06131	Chromium	7440-47-3	18.9		0.135	0.449		2
06132	Cobalt	7440-48-4	3.65		0.0224	0.112		2
06133	Copper	7440-50-8	8.83		0.0741	0.449		2
06135	Lead	7439-92-1	4.43		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.192		0.0561	0.112		2
06139	Nickel	7440-02-0	12.2		0.112	0.449		2
06141	Selenium	7782-49-2	0.0449	U	0.0449	0.449		2
06142	Silver	7440-22-4	0.100	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.226		0.0337	0.112		2
06148	Vanadium	7440-62-2	33.7		0.0247	0.112		2
06149	Zinc	7440-66-6	49.2		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0055	J	0.0033	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190388
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1517 SDG#: DE067-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	442	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.20	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 09:39	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 16:25	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110310001A	02/03/2011 14:36	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 22:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110310001A	01/31/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-151-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190388
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1517 SDG#: DE067-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:18	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 07:58	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:52	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:52	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 07:58	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:52	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 07:58	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 07:58	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 08:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201A	02/07/2011 17:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11038243201A	02/09/2011 17:43	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201A	02/07/2011 11:35	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-152-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190389
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1524 SDG#: DE067-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.82
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.82
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.82
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.82
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.82
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.82
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.82
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.82
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.82
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.82
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.82
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.82
06192	Methylene Chloride	75-09-2	0.50	J	0.23	3.8		0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.82

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Sample Description: SL-152-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190389
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1524 SDG#: DE067-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.82
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.82
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.82
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.13
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190389
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1524 SDG#: DE067-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1

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Sample Description: SL-152-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190389
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1524 SDG#: DE067-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.73	22.8		1
07914	Boron	7440-42-8	2.27	J	1.01	5.70		1
01650	Calcium	7440-70-2	2,920		6.99	22.8		1
01654	Iron	7439-89-6	27,200		5.37	22.8		1
01656	Lithium	7439-93-2	30.3		0.25	2.3		1
01657	Magnesium	7439-95-4	4,270		2.90	11.4		1
06958	Manganese	7439-96-5	383		0.0889	0.570		1
10145	Phosphorus	7723-14-0	230		0.638	11.4		1
01662	Potassium	7440-09-7	2,170		20.5	57.0		1
01667	Sodium	7440-23-5	128		42.5	114		1
07968	Strontium	7440-24-6	25.6		0.0707	0.570		1
06969	Tin	7440-31-5	2.32	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,230		0.433	1.14		1
10146	Zirconium	7440-67-7	2.88	J	0.958	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.67		0.0912	0.456		2
06126	Barium	7440-39-3	130		0.123	0.456		2

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SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190389
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S1524 SDG#: DE067-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.800	0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0602 J	0.0456	0.114		2
06131	Chromium	7440-47-3	23.1	0.137	0.456		2
06132	Cobalt	7440-48-4	6.42	0.0228	0.114		2
06133	Copper	7440-50-8	8.40	0.0752	0.456		2
06135	Lead	7439-92-1	6.91	0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.621	0.0570	0.114		2
06139	Nickel	7440-02-0	16.2	0.114	0.456		2
06141	Selenium	7782-49-2	0.117 J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0449 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.263	0.0342	0.114		2
06148	Vanadium	7440-62-2	43.2	0.0251	0.114		2
06149	Zinc	7440-66-6	51.2	0.638	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0063 J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	449	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.28	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-152-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190389
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S1524 SDG#: DE067-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-152-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 00:15	Angela D Sneeringer	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 17:10	Jason M Long	20.13
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:35	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:33	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 10:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 16:58	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 22:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:22	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:01	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:54	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:54	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-152-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190389
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1524 SDG#: DE067-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:01	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:54	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:01	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:01	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 09:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11042042201B	02/18/2011 05:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11038243201A	02/09/2011 17:50	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-152-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190390
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1529 SDG#: DE067-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-152-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190390
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1529 SDG#: DE067-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-152-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190390
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1529 SDG#: DE067-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.62	22.4		1
07914	Boron	7440-42-8	1.34	J	0.995	5.59		1
01650	Calcium	7440-70-2	3,260		6.85	22.4		1
01654	Iron	7439-89-6	22,800		5.27	22.4		1
01656	Lithium	7439-93-2	30.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,380		2.84	11.2		1
06958	Manganese	7439-96-5	185		0.0872	0.559		1
10145	Phosphorus	7723-14-0	206		0.626	11.2		1
01662	Potassium	7440-09-7	1,820		20.1	55.9		1
01667	Sodium	7440-23-5	87.9	J	41.7	112		1
07968	Strontium	7440-24-6	21.5		0.0693	0.559		1
06969	Tin	7440-31-5	2.92	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,200		0.425	1.12		1
10146	Zirconium	7440-67-7	1.87	J	0.939	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.16		0.0912	0.456		2
06126	Barium	7440-39-3	78.8		0.123	0.456		2
06127	Beryllium	7440-41-7	0.866		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0787	J	0.0456	0.114		2
06131	Chromium	7440-47-3	22.6		0.137	0.456		2
06132	Cobalt	7440-48-4	5.47		0.0228	0.114		2
06133	Copper	7440-50-8	13.9		0.0752	0.456		2
06135	Lead	7439-92-1	15.2		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.422		0.0570	0.114		2
06139	Nickel	7440-02-0	15.7		0.114	0.456		2
06141	Selenium	7782-49-2	0.0657	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0824	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.302		0.0342	0.114		2
06148	Vanadium	7440-62-2	46.5		0.0251	0.114		2
06149	Zinc	7440-66-6	59.8		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-152-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190390
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1529 SDG#: DE067-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	469	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.97	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 10:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 17:31	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 22:42	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-152-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190390
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1529 SDG#: DE067-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:26	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:04	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:55	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:55	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:04	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:55	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:04	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:04	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201A	02/09/2011 09:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201A	02/07/2011 18:02	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11038243201A	02/09/2011 18:02	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201A	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201A	02/07/2011 11:35	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-153-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190391
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1533 SDG#: DE067-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.7		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.8		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.8		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.7		0.87
06192	Methylene Chloride	75-09-2	0.43	J	0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-153-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190391
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1533 SDG#: DE067-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.22
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-153-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190391
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1533 SDG#: DE067-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-153-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190391
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1533 SDG#: DE067-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.46	21.7		1
07914	Boron	7440-42-8	0.965	U	0.965	5.42		1
01650	Calcium	7440-70-2	2,560		6.65	21.7		1
01654	Iron	7439-89-6	20,300		5.11	21.7		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,640		2.75	10.8		1
06958	Manganese	7439-96-5	185		0.0846	0.542		1
10145	Phosphorus	7723-14-0	192		0.607	10.8		1
01662	Potassium	7440-09-7	1,680		19.5	54.2		1
01667	Sodium	7440-23-5	163		40.5	108		1
07968	Strontium	7440-24-6	16.5		0.0672	0.542		1
06969	Tin	7440-31-5	2.96	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,150		0.412	1.08		1
10146	Zirconium	7440-67-7	1.40	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0958	J	0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.06		0.0851	0.425		2
06126	Barium	7440-39-3	60.0		0.115	0.425		2
06127	Beryllium	7440-41-7	0.532		0.0170	0.106		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-153-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190391
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1533 SDG#: DE067-11

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium		7440-43-9	0.0425 U	0.0425	0.106		2
06131	Chromium		7440-47-3	15.8	0.128	0.425		2
06132	Cobalt		7440-48-4	6.59	0.0213	0.106		2
06133	Copper		7440-50-8	7.91	0.0702	0.425		2
06135	Lead		7439-92-1	5.35	0.0111	0.213		2
06138	Molybdenum		7439-98-7	0.358	0.0532	0.106		2
06139	Nickel		7440-02-0	10.9	0.106	0.425		2
06141	Selenium		7782-49-2	0.0863 J	0.0425	0.425		2
06142	Silver		7440-22-4	0.0132 J	0.0128	0.106		2
06145	Thallium		7440-28-0	0.265	0.0319	0.106		2
06148	Vanadium		7440-62-2	33.0	0.0234	0.106		2
06149	Zinc		7440-66-6	53.8	0.596	3.19		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	3.3	0.88	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10 U	10	33.2		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.26 J	0.22	1.1		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	481	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.83	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-153-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190391
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1533 SDG#: DE067-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-153-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 00:37	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 17:30	Jason M Long	21.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:40	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:37	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 10:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 21:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 23:01	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 00:57	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:57	David K Beck	2

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Sample Description: **SL-153-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190391
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1533 SDG#: DE067-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:07	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:07	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201B	02/09/2011 09:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201B	02/07/2011 18:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11038243201A	02/09/2011 18:21	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201B	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201B	02/07/2011 11:35	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-154-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE067-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	0.43	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE067-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.22
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	20.9	J	19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-154-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE067-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1

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Sample Description: SL-154-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE067-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.77
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: SL-154-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE067-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.0	U	8.0	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the							

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Sample Description: SL-154-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE067-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,700		5.72	22.8		1
07914	Boron	7440-42-8	1.72	J	1.01	5.69		1
01650	Calcium	7440-70-2	1,940		6.97	22.8		1
01654	Iron	7439-89-6	19,900		5.36	22.8		1
01656	Lithium	7439-93-2	21.5		0.25	2.3		1
01657	Magnesium	7439-95-4	2,730		2.89	11.4		1
06958	Manganese	7439-96-5	258		0.0887	0.569		1
10145	Phosphorus	7723-14-0	117		0.637	11.4		1
01662	Potassium	7440-09-7	1,080		20.5	56.9		1
01667	Sodium	7440-23-5	159		42.4	114		1
07968	Strontium	7440-24-6	18.7		0.0705	0.569		1
06969	Tin	7440-31-5	2.62	J	1.14	11.4		1
06970	Titanium	7440-32-6	923		0.432	1.14		1
10146	Zirconium	7440-67-7	2.71	J	0.956	5.69		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0876	J	0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.37		0.0892	0.446		2
06126	Barium	7440-39-3	61.5		0.120	0.446		2
06127	Beryllium	7440-41-7	0.603		0.0178	0.112		2
06128	Cadmium	7440-43-9	0.0446	U	0.0446	0.112		2
06131	Chromium	7440-47-3	16.2		0.134	0.446		2
06132	Cobalt	7440-48-4	2.84		0.0223	0.112		2
06133	Copper	7440-50-8	6.01		0.0736	0.446		2
06135	Lead	7439-92-1	4.69		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.248		0.0558	0.112		2
06139	Nickel	7440-02-0	8.88		0.112	0.446		2
06141	Selenium	7782-49-2	0.0521	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0519	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.163		0.0335	0.112		2
06148	Vanadium	7440-62-2	31.4		0.0245	0.112		2
06149	Zinc	7440-66-6	29.0		0.625	3.35		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0072	J	0.0032	0.111		1

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Sample Description: **SL-154-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
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S1544 SDG#: DE067-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3		0.91	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	468		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-154-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 01:00	Angela D Sneeringer	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011 17:50	Jason M Long	21.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:46	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-154-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE067-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:43	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 18:34	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 11:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 22:00	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 14:50	Elizabeth J Marin	22.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:42	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 16:35	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 21:13	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 23:19	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/04/2011 23:45	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 09:01	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 21:39	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 02:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1

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Sample Description: **SL-154-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190392
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1544 SDG#: DE067-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 00:59	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 00:59	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:10	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201B	02/09/2011 07:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201B	02/09/2011 07:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621201B	02/07/2011 19:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11038243201A	02/09/2011 19:23	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11034102201A	02/03/2011 21:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201B	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621201B	02/07/2011 11:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11034102201A	02/03/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-155-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.0		1
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		1
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		1
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		1
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		1
06192	Methylene Chloride	75-09-2	0.69	J	0.27	4.5		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1

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Sample Description: SL-155-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.45
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	28.9	J	18.8	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-155-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Sample Description: **SL-155-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.58
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1

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Sample Description: SL-155-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	900	U	900	2,300		1
	Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.9	U	7.9	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,600		5.50	21.9		1
07914	Boron	7440-42-8	1.06	J	0.973	5.47		1
01650	Calcium	7440-70-2	2,370		6.70	21.9		1
01654	Iron	7439-89-6	23,900		5.15	21.9		1
01656	Lithium	7439-93-2	21.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,200		2.78	10.9		1
06958	Manganese	7439-96-5	485		0.0853	0.547		1
10145	Phosphorus	7723-14-0	331		0.612	10.9		1
01662	Potassium	7440-09-7	2,060		19.7	54.7		1
01667	Sodium	7440-23-5	140		40.8	109		1
07968	Strontium	7440-24-6	17.9		0.0678	0.547		1
06969	Tin	7440-31-5	3.07	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,170		0.415	1.09		1
10146	Zirconium	7440-67-7	0.918	U	0.918	5.47		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.145	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.6		0.0883	0.442		2
06126	Barium	7440-39-3	81.1		0.119	0.442		2
06127	Beryllium	7440-41-7	0.961		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.0702	J	0.0442	0.110		2
06131	Chromium	7440-47-3	16.5		0.132	0.442		2
06132	Cobalt	7440-48-4	9.59		0.0221	0.110		2
06133	Copper	7440-50-8	11.4		0.0729	0.442		2
06135	Lead	7439-92-1	8.90		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.573		0.0552	0.110		2
06139	Nickel	7440-02-0	12.5		0.110	0.442		2
06141	Selenium	7782-49-2	0.148	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0132	U	0.0132	0.110		2
06145	Thallium	7440-28-0	0.381		0.0331	0.110		2
06148	Vanadium	7440-62-2	39.4		0.0243	0.110		2
06149	Zinc	7440-66-6	68.1		0.618	3.31		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1

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Sample Description: **SL-155-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.90	U	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	403		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-155-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011	01:22	Angela D Sneeringer	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110261AA	01/26/2011	18:09	Jason M Long	23.45
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011	17:51	Lois E Hiltz	n.a.

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Sample Description: **SL-155-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102523573	01/25/2011 18:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102523573	01/25/2011 18:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102523573	01/25/2011 17:49	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 18:51	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11031SLC026	02/04/2011 11:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029SLA026	02/02/2011 22:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11029SLA026	01/30/2011 10:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11031SLC026	02/01/2011 10:30	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 15:27	Elizabeth J Marin	23.58
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102523573	01/25/2011 17:48	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 17:17	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 21:22	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310021A	02/03/2011 23:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310021A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 00:10	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110250023A	01/26/2011 09:16	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 21:57	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 03:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110250023A	01/25/2011 17:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-155-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190393
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1553 SDG#: DE067-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/08/2011 01:01	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 01:01	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 01:01	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:13	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201B	02/09/2011 07:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201B	02/09/2011 07:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11042042201B	02/18/2011 05:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11038243201A	02/09/2011 19:36	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11034102201A	02/03/2011 21:32	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201B	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11034102201A	02/03/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11026182102B	01/26/2011 11:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11026039402B	01/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11038243201A	02/07/2011 10:45	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	2	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-012411 Water**
SSFL Area IV Collocated Soil Sampling
TB-012411

LLI Sample # WW 6190394
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:30

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB124 SDG#: DE067-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-012411 Water**
SSFL Area IV Collocated Soil Sampling
TB-012411

LLI Sample # WW 6190394
LLI Group # 1230289
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:30

Submitted: 01/25/2011 09:15
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB124 SDG#: DE067-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110282AA	01/28/2011	04:18	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110251AA	01/25/2011	14:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110251AA	01/25/2011	14:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110282AA	01/28/2011	04:18	Holly Berry	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11027A20A	01/27/2011	19:44	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11027A20A	01/27/2011	19:44	Butch A Sokolowski	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110272AA	Sample number(s): 6190381-6190387,6190389,6190391-6190393									
Acetone	6.7	U	6.7	8.0	ug/kg	156	158	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	99	100	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93	94	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103	104	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94	94	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	102	102	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	67	68	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	115	119	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93	95	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	91	93	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	87	90	75-120	4	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	103	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	99	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	67	68	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93	95	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	100	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	67	66	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93	93	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93	96	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69	87	22-131	23	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	85	86	58-120	0	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	99	99	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	99	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	100	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	95	96	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	51	52	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	96	98	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	95	96	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	103	104	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	102	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	103	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95	95	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	93	94	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	103	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	95	96	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	83	87	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	84	86	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	93	94	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	105	106	61-126	1	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	73*	89	78-120	19	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	97	99	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	80	82	45-155	3	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	93	94	76-120	0	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	93	95	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	96	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69	70	61-134	1	30
Methylene Chloride	0.57	J	0.24	4.0	ug/kg	95	96	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	94	95	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	98	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	105	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	91	91	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	108	109	77-120	0	30
Toluene	0.19	J	0.08	4.0	ug/kg	97	99	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	93	94	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	85	89	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100	101	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	100	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	98	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	78	77	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	94	94	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93	94	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92	93	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	66	68	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100	99	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	90	91	80-120	1	30
Batch number: E110251AA	Sample number(s): 6190394									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	109	60-132	6	30
Batch number: E110261AA	Sample number(s): 6190381-6190387,6190389,6190391-6190393									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	106	104	70-130	2	30
Batch number: Y110282AA	Sample number(s): 6190394									
Acetone	6	U	6.	20	ug/l	111	113	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	100	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	104	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	101	98	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	105	102	80-120	3	30
Bromoform	1	U	1.	5	ug/l	99	97	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	118	114	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	98	97	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	100	99	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	106	105	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	99	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	117	114	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	99	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	107	103	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	120	113	60-129	6	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	102	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	101	99	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	52	55	38-136	5	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	104	103	66-120	0	30
Dibromochloromethane	1	U	1.	5	ug/l	98	100	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	99	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	120	117	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	99	79-120	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	115	112	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	92	80-120	9	30
1,2-Dichloropropane	1	U	1.	5	ug/l	97	95	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	112	106	77-124	6	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	101	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	97	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	103	99	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	116	114	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	82	83	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	97	97	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	96	97	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	104	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	104	99	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	95	93	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	104	103	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	98	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	98	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	96	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	100	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	101	101	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	99	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	110	106	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	101	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	103	99	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	122	116	64-129	6	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	106	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	103	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	97	97	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	97	80-120	1	30

Batch number: 11029SLA026 Sample number(s): 6190381-6190393

Acenaphthene	0.67	U	0.67	1.7	ug/kg	92	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	95	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	101	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	118	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	97	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	100	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	132	67-143
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99	64-120
Fluorene	0.67	U	0.67	1.7	ug/kg	98	71-120
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99	56-134

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Quality Control Summary

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Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	78		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	107		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	92		56-121		
Batch number: 11031SLA026	Sample number(s): 6190381-6190386,6190392-6190393									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	96		70-130		
Batch number: 11031SLC026	Sample number(s): 6190381-6190393									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U		170.	500	ug/kg	88		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Carbazole	17	U	17.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	25		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	86		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	83		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	85		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	89		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	92		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	80		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	78		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	79		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	67		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	90		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	89		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	94		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	68		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	90		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	93		77-111		
bis(2-Ethylhexyl)phthalate	17	J	17.	330	ug/kg	94		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	77		68-105		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	86		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	17	U	17.	170	ug/kg	86		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	81		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	93		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	88		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	87		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11027A20A	Sample number(s): 6190394									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	81	75-135	21	30
Batch number: 11027A34A	Sample number(s): 6190381-6190386,6190392-6190393									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	73	67-119	1	30
Batch number: 110290006A	Sample number(s): 6190381-6190386,6190392-6190393									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	103		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	116	126	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	116	125	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	103		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100	U	100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	102		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	102		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	100		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	99		80-120		
PETN	800	U	800.	2,400	ug/kg	93		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	102		80-120		
Batch number: 110270005A	Sample number(s): 6190381-6190386,6190392-6190393									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	96		80-126		
Batch number: 110310001A	Sample number(s): 6190384,6190388									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110310021A	Sample number(s): 6190381-6190393									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	74*	64*	75-125	15	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	109		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110340002A	Sample number(s): 6190381-6190386,6190392-6190393									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	83		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	87		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	68		66-113		
Batch number: 110250023A	Sample number(s): 6190381-6190386,6190392-6190393									
Ethanol	100	U	100.	500	ug/kg	98		75-112		
Isopropanol	100	U	100.	500	ug/kg	99		75-125		
Methanol	100	U	100.	500	ug/kg	99		75-134		
Batch number: 110320013A	Sample number(s): 6190381-6190386,6190392-6190393									
Diethylene glycol	9.0	U	9.0	13	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 110310002A	Sample number(s): 6190381-6190386,6190392-6190393									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
Batch number: 110271026001A	Sample number(s): 6190381-6190393									
Antimony	0.0600	U	0.0600	0.200	mg/kg	91		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	96		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	98		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0138	J	0.0104	0.200	mg/kg	107		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	99		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	96		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	96		78-122		
Batch number: 110271026001B	Sample number(s): 6190381-6190393									
Selenium	0.0400	U	0.0400	0.400	mg/kg	102		79-122		
Batch number: 110271026001C	Sample number(s): 6190381-6190393									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	103		78-122		
Batch number: 110271026001D	Sample number(s): 6190381-6190393									
Barium	0.108	U	0.108	0.400	mg/kg	101		79-121		
Batch number: 110275708001	Sample number(s): 6190381-6190393									
Aluminum	5.03	U	5.03	20.0	mg/kg	91		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	89		78-110		

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Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	9.22	J	6.13	20.0	mg/kg	99		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	1.07	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		79-121		
Tin	1.43	J	1.00	10.0	mg/kg	97		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	93		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110275711001	Sample number(s): 6190381-6190393									
Mercury	0.0028	U	0.0028	0.0980	mg/kg	96		88-123		
Batch number: 11034102201A	Sample number(s): 6190381-6190386,6190392-6190393									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11038038201A	Sample number(s): 6190381-6190390									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11038038201B	Sample number(s): 6190391-6190393									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11038243201A	Sample number(s): 6190381-6190393									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11038621201A	Sample number(s): 6190381-6190386,6190388,6190390									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11038621201B	Sample number(s): 6190391-6190392									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11042042201B	Sample number(s): 6190387,6190389,6190393									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11026039402A	Sample number(s): 6190381-6190383									
22a pH by 9045C						101		95-105		
Batch number: 11026039402B	Sample number(s): 6190384-6190393									
22a pH by 9045C						101		95-105		
Batch number: 11026182102A	Sample number(s): 6190381-6190383									
32a OR Potential						99		98-102		
Batch number: 11026182102B	Sample number(s): 6190384-6190393									
32a OR Potential						99		98-102		
Batch number: 11027162401B	Sample number(s): 6190387-6190391									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11039162401A	Sample number(s): 6190381-6190386,6190392									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11040162401A	Sample number(s): 6190393									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110272AA	Sample number(s): 6190381-6190387,6190389,6190391-6190393 UNSPK: 6190387								
Acetone	124		15-210						
Benzene	105		55-143						
Bromobenzene	99		43-139						
Bromochloromethane	117		60-137						
Bromodichloromethane	103		53-136						
Bromoform	114		38-124						
Bromomethane	60		42-168						
2-Butanone	101		37-163						
n-Butylbenzene	96		30-146						
sec-Butylbenzene	95		33-157						
tert-Butylbenzene	91		41-152						
Carbon Tetrachloride	113		45-153						
Chlorobenzene	106		49-135						
Chloroethane	59		39-152						
2-Chloroethyl Vinyl Ether	87		32-139						
Chloroform	107		61-142						
Chloromethane	54		51-163						
2-Chlorotoluene	98		42-146						
4-Chlorotoluene	98		39-145						
1,2-Dibromo-3-chloropropane	85		30-139						
Dibromochloromethane	110		51-128						
1,2-Dibromoethane	106		54-129						
Dibromomethane	110		57-130						
1,2-Dichlorobenzene	104		36-133						
1,3-Dichlorobenzene	101		34-134						
1,4-Dichlorobenzene	102		35-136						
Dichlorodifluoromethane	47		26-151						
1,1-Dichloroethane	101		63-142						
1,2-Dichloroethane	104		68-131						
1,1-Dichloroethene	112		61-149						
cis-1,2-Dichloroethene	106		60-136						
trans-1,2-Dichloroethene	112		59-142						
1,2-Dichloropropane	99		62-135						
1,3-Dichloropropane	99		58-129						
2,2-Dichloropropane	106		53-147						
1,1-Dichloropropene	99		54-145						
cis-1,3-Dichloropropene	87		51-131						
trans-1,3-Dichloropropene	88		49-129						
Ethylbenzene	98		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	103		10-155						
2-Hexanone	69		32-160						
Isopropylbenzene	96		38-144						
p-Isopropyltoluene	96		29-152						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methyl Tertiary Butyl Ether	96		55-129						
4-Methyl-2-pentanone	70		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	98		39-157						
Styrene	104		35-134						
1,1,1,2-Tetrachloroethane	112		52-130						
1,1,2,2-Tetrachloroethane	96		40-152						
Tetrachloroethene	115		42-149						
Toluene	104		50-146						
1,2,3-Trichlorobenzene	92		10-140						
1,2,4-Trichlorobenzene	82		10-136						
1,1,1-Trichloroethane	110		64-142						
1,1,2-Trichloroethane	109		54-139						
Trichloroethene	104		53-144						
Trichlorofluoromethane	79		47-163						
1,2,3-Trichloropropane	102		45-154						
1,2,4-Trimethylbenzene	95		37-149						
1,3,5-Trimethylbenzene	94		38-150						
Vinyl Chloride	59		50-154						
m+p-Xylene	106		44-137						
o-Xylene	92		42-137						
Batch number: E110251AA	Sample number(s): 6190394 UNSPK: P189813								
1,4-Dioxane	99		50-150						
Batch number: E110261AA	Sample number(s): 6190381-6190387,6190389,6190391-6190393 UNSPK: P189705								
1,4-Dioxane	88	86	70-130	13	30				
Batch number: 11029SLA026	Sample number(s): 6190381-6190393 UNSPK: 6190381								
Acenaphthene	96	92	63-105	4	30				
Acenaphthylene	96	92	67-114	5	30				
Anthracene	102	94	60-122	8	30				
Benzo(a)anthracene	106	100	59-128	6	30				
Benzo(a)pyrene	100	95	45-138	6	30				
Benzo(b)fluoranthene	109	99	43-155	9	30				
Benzo(g,h,i)perylene	86	80	33-141	7	30				
Benzo(k)fluoranthene	102	99	42-144	3	30				
Butylbenzylphthalate	113	103	57-173	10	30				
Di-n-butylphthalate	121	110	65-148	9	30				
Chrysene	101	94	48-134	7	30				
Dibenz(a,h)anthracene	90	84	22-133	7	30				
Diethylphthalate	110	103	70-136	6	30				
Dimethylphthalate	113	104	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	135	100	39-167	24	30				
Fluoranthene	124	105	26-166	16	30				
Fluorene	106	103	66-122	2	30				
Indeno(1,2,3-cd)pyrene	88	82	21-143	6	30				
1-Methylnaphthalene	97	91	72-123	7	30				
2-Methylnaphthalene	90	84	64-103	7	30				
Naphthalene	99	91	61-102	9	30				
N-Nitrosodimethylamine	92	91	48-113	2	30				
Di-n-octylphthalate	113	104	40-192	8	30				
Phenanthrene	102	95	12-165	7	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Pyrene	93	89	15-153	4	30				
Batch number: 11031SLA026	Sample number(s): 6190381-6190386,6190392-6190393 UNSPK: P189701								
N-Nitrosodimethylamine	87	90	70-130	4	30				
Batch number: 11031SLC026	Sample number(s): 6190381-6190393 UNSPK: 6190381								
Aniline	61	59	35-95	3	30				
Benzidine	62	58	35-141	6	30				
Benzoic acid	11	12	10-173	7	30				
Benzyl alcohol	87	91	67-115	5	30				
4-Bromophenyl-phenylether	88	99	67-129	11	30				
Carbazole	85	95	64-120	10	30				
4-Chloro-3-methylphenol	80	88	76-110	9	30				
4-Chloroaniline	47	48	23-95	2	30				
bis(2-Chloroethoxy)methane	79	87	75-104	10	30				
bis(2-Chloroethyl)ether	80	85	60-116	6	30				
bis(2-Chloroisopropyl)ether	79	83	55-142	5	30				
2-Chloronaphthalene	72	76	50-141	6	30				
2-Chlorophenol	82	88	73-121	7	30				
4-Chlorophenyl-phenylether	84	91	80-109	8	30				
Dibenzofuran	85	94	71-112	10	30				
1,2-Dichlorobenzene	75	82	66-108	9	30				
1,3-Dichlorobenzene	72	80	63-109	10	30				
1,4-Dichlorobenzene	74	82	70-100	10	30				
3,3'-Dichlorobenzidine	62	70	16-119	12	30				
2,4-Dichlorophenol	77*	88	78-117	13	30				
2,4-Dimethylphenol	83	91	78-110	9	30				
3,5-Dimethylphenol	88	94	70-130	7	30				
4,6-Dinitro-2-methylphenol	45	40	24-116	10	30				
2,4-Dinitrophenol	25	23	20-143	8	30				
2,4-Dinitrotoluene	81	90	73-113	10	30				
2,6-Dinitrotoluene	82	88	69-123	8	30				
1,2-Diphenylhydrazine	89	98	71-129	10	30				
bis(2-Ethylhexyl)phthalate	94	104	63-122	10	30				
Hexachlorobenzene	90	98	77-114	9	30				
Hexachlorobutadiene	78	90	62-120	14	30				
Hexachlorocyclopentadiene	59	55	10-153	6	30				
Hexachloroethane	70	77	57-109	10	30				
Isophorone	78	87	73-102	10	30				
2-Methylphenol	84	87	75-111	3	30				
4-Methylphenol	87	91	71-111	4	30				
2-Nitroaniline	83	92	67-125	11	30				
3-Nitroaniline	79	89	59-122	12	30				
4-Nitroaniline	68	71	52-112	5	30				
Nitrobenzene	79	88	72-106	11	30				
2-Nitrophenol	61*	77	74-115	24	30				
4-Nitrophenol	56	70	54-113	23	30				
N-Nitroso-di-n-propylamine	77	82	60-116	7	30				
N-Nitrosodiphenylamine	87	98	86-145	11	30				
Pentachlorophenol	47	55	28-127	15	30				
Phenol	84	89	58-126	6	30				
1,2,4-Trichlorobenzene	78	87	72-115	11	30				
2,4,5-Trichlorophenol	68*	82	78-109	19	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trichlorophenol	64*	78	77-115	21	30				
Batch number: 110290006A	Sample number(s): 6190381-6190386,6190392-6190393 UNSPK: P189701								
4-Amino-2,6-Dinitrotoluene	101	103	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	101	102	80-137	1	50				
1,3-Dinitrobenzene	100	101	38-166	1	50				
2,4-Dinitrotoluene	97	98	80-131	1	50				
2,6-Dinitrotoluene	99	102	80-127	2	50				
HMX	93	96	63-128	2	50				
Nitrobenzene	98	99	80-125	1	50				
Nitroglycerin	88	90	80-120	2	50				
2-Nitrotoluene	98	101	80-122	3	50				
3-Nitrotoluene	96	97	72-119	2	50				
4-Nitrotoluene	95	96	80-125	1	50				
PETN	79*	81	80-121	3	50				
RDX	100	101	75-129	0	50				
Tetryl	88	90	55-174	2	50				
1,3,5-Trinitrobenzene	105	105	82-126	0	50				
2,4,6-Trinitrotoluene	96	98	82-130	1	50				
Batch number: 110270005A	Sample number(s): 6190381-6190386,6190392-6190393 UNSPK: P189701								
17a Formaldehyde by 8315A	102	100	80-120	2	50				
Batch number: 110310001A	Sample number(s): 6190384,6190388 UNSPK: P189220								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 110310021A	Sample number(s): 6190381-6190393 UNSPK: 6190384								
PCB-1016	89	92	29-146	4	50				
PCB-1260	87	92	39-149	5	50				
Batch number: 110340002A	Sample number(s): 6190381-6190386,6190392-6190393 UNSPK: 6190384								
EFH (C12-C14)	74	71	49-123	3	20				
EFH (C15-C20)	104	97	49-123	7	20				
EFH (C21-C30)	111	31*	49-123	40*	20				
EFH (C30 - C40)	98	2*	49-123	31*	20				
EFH (C8-C11)	61	54	49-123	13	20				
Batch number: 110250023A	Sample number(s): 6190381-6190386,6190392-6190393 UNSPK: P189703								
Ethanol	79	80	24-143	1	20				
Isopropanol	80	81	75-125	1	20				
Methanol	57	61	45-136	3	20				
Batch number: 110320013A	Sample number(s): 6190381-6190386,6190392-6190393 UNSPK: 6190381								
Diethylene glycol	83	82	59-109	1	20				
Ethylene glycol	96	96	63-107	0	20				
Propylene glycol	91	88	63-107	3	20				
Batch number: 110310002A	Sample number(s): 6190381-6190386,6190392-6190393 UNSPK: 6190381								
m-Terphenyl	95	90	75-125	5	20				
o-Terphenyl	97	92	75-125	5	20				
p-Terphenyl	83	80	75-125	4	20				
Batch number: 110271026001A	Sample number(s): 6190381-6190393 UNSPK: 6190381 BKG: 6190381								

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Antimony	-187*	-189*	75-125	8	20	2.82	0.0992 J	186* (1)	20
Arsenic	-2970 (2)	-2914 (2)	75-125	9	20	63.4	4.12	176*	20
Beryllium	75	75	75-125	0	20	0.523	0.415	23* (1)	20
Cadmium	93	85	75-125	6	20	0.270	0.0896 J	100* (1)	20
Chromium	98	137*	75-125	15	20	13.7	14.0	2	20
Cobalt	87	90	75-125	4	20	5.88	4.41	29*	20
Copper	103	118	75-125	9	20	7.35	8.34	13	20
Lead	-44*	-23*	75-125	8	20	8.83	5.05	55*	20
Nickel	31*	36*	75-125	3	20	16.2	8.47	63*	20
Silver	100	99	75-125	0	20	0.0286 J	0.0318 J	11 (1)	20
Thallium	74*	79	75-125	4	20	0.291	0.223	26* (1)	20
Vanadium	-105 (2)	-82 (2)	75-125	6	20	46.8	27.0	53*	20
Zinc	90 (2)	126 (2)	75-125	5	20	59.8	61.0	2	20
Batch number: 110271026001B	Sample number(s): 6190381-6190393 UNSPK: 6190381 BKG: 6190381								
Selenium	78	77	75-125	1	20	0.427	0.0782 J	138* (1)	20
Batch number: 110271026001C	Sample number(s): 6190381-6190393 UNSPK: 6190381 BKG: 6190381								
Molybdenum	82	97	75-125	14	20	2.32	0.411	140* (1)	20
Batch number: 110271026001D	Sample number(s): 6190381-6190393 UNSPK: 6190381 BKG: 6190381								
Barium	110 (2)	161 (2)	75-125	6	20	79.6	83.7	5	20
Batch number: 110275708001	Sample number(s): 6190381-6190393 UNSPK: 6190381 BKG: 6190381								
Aluminum	2012 (2)	2556 (2)	75-125	6	20	11,700	13,700	16	20
Boron	96	96	84-115	2	20	5.16	7.37	35* (1)	20
Calcium	558 (2)	84 (2)	75-125	18	20	9,370	12,300	27*	20
Iron	3112 (2)	4337 (2)	75-125	6	20	15,000	18,500	21*	20
Lithium	104	104	82-114	1	20	16.8	19.6	16	20
Magnesium	384 (2)	406 (2)	75-125	1	20	3,560	4,180	16	20
Manganese	152 (2)	148 (2)	75-125	1	20	215	249	15	20
Phosphorus	148*	111	75-125	9	20	295	347	16	20
Potassium	164*	88	75-125	20	20	2,520	3,230	24*	20
Sodium	106	105	75-125	1	20	321	342	7 (1)	20
Strontium	103	99	75-115	4	20	24.8	30.3	20	20
Tin	90	90	80-110	2	20	2.22 J	2.26 J	2 (1)	20
Titanium	351 (2)	362 (2)	75-125	1	20	902	1,120	22*	20
Zirconium	97	83	75-125	16	20	2.17 J	2.83 J	27* (1)	20
Batch number: 110275711001	Sample number(s): 6190381-6190393 UNSPK: 6190381 BKG: 6190381								
Mercury	102	98	65-135	4	20	0.0132 J	0.0241 J	58* (1)	20
Batch number: 11034102201A	Sample number(s): 6190381-6190386,6190392-6190393 UNSPK: 6190381 BKG: 6190381								
21a Cyanide by 9012B	107		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11038038201A	Sample number(s): 6190381-6190390 UNSPK: 6190381 BKG: 6190381								
11a Anions by 300.0 - Fluoride	111		80-120			2.4	2.1	16 (1)	20
11a Anions by 300.0 - Nitrate	119		80-120			11.8	10.2	15	20

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11038038201B	Sample number(s): 6190391-6190393 UNSPK: 6190391 BKG: 6190391								
11a Anions by 300.0 - Fluoride	82		80-120			3.0	2.4	21* (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			1.6	1.3 J	20 (1)	20
Batch number: 11038243201A	Sample number(s): 6190381-6190393 UNSPK: 6190391 BKG: 6190391								
3a Cr VI by EPA 7199	88		75-125			0.23 J	0.26 J	12 (1)	20
Batch number: 11038621201A	Sample number(s): 6190381-6190386,6190388,6190390 UNSPK: 6190381 BKG: 6190381								
7a Perchlorate EPA 314.0	111		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11038621201B	Sample number(s): 6190391-6190392 UNSPK: 6190391 BKG: 6190391								
7a Perchlorate EPA 314.0	121*		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11042042201B	Sample number(s): 6190387,6190389,6190393 UNSPK: 11042BU BKG: 11042BU								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11026039402A	Sample number(s): 6190381-6190383 BKG: P189705								
22a pH by 9045C						6.14	6.14	0	1
Batch number: 11026039402B	Sample number(s): 6190384-6190393 BKG: 6190384								
22a pH by 9045C						7.57	7.57	0	1
Batch number: 11026182102A	Sample number(s): 6190381-6190383 BKG: P189705								
32a OR Potential						476	476	0	6
Batch number: 11026182102B	Sample number(s): 6190384-6190393 BKG: 6190384								
32a OR Potential						389	394	1	6
Batch number: 11027162401B	Sample number(s): 6190387-6190391 BKG: 6190389								
28a Moisture Content by 160.3						14.0	14.0	0	20
Batch number: 11039162401A	Sample number(s): 6190381-6190386,6190392 BKG: 6190392								
28a Moisture Content by 160.3						12.1	12.0	1	20
Batch number: 11040162401A	Sample number(s): 6190393 BKG: 6190393								
28a Moisture Content by 160.3						11.2	9.6	15	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110272AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6190381	116	109	95	80
6190382	114	110	96	81
6190383	116	112	92	83
6190384	117	110	94	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

6190385	116	109	89	86
6190386	116	111	92	83
6190387	111	108	95	83
6190389	114	113	94	83
6190391	114	109	95	82
6190392	115	114	92	83
6190393	114	108	93	83
Blank	109	107	95	85
LCS	103	105	100	100
LCSD	102	105	100	100
MS	106	105	101	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110251AA

	Toluene-d8
6190394	95
Blank	96
LCS	96
LCSD	95
MS	95
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110261AA

	Toluene-d8
6190381	98
6190382	98
6190383	98
6190384	99
6190385	99
6190386	98
6190387	98
6190389	98
6190391	98
6190392	98
6190393	98
Blank	99
LCS	99
LCSD	100
MS	98
MSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110282AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6190394	104	100	100	99
Blank	104	102	100	98
LCS	104	101	101	101
LCSD	101	104	102	101

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11029SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6190381	110	93	88
6190382	106	98	86
6190383	109	91	94
6190384	111	95	82
6190385	114	88	88
6190386	106	91	91
6190387	111	94	93
6190388	110	92	91
6190389	99	75	85
6190390	103	90	94
6190391	96	97	105
6190392	101	86	107
6190393	110	96	85
Blank	101	86	87
LCS	94	86	93
MS	110	97	93
MSD	104	92	86

Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11031SLA026

	N-Nitrosodimethylamine-d6
6190381	107
6190382	100
6190383	102
6190384	67
6190385	141
6190386	84
6190392	65
6190393	72
Blank	85
LCS	85
MS	70
MSD	71

Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11031SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6190381	84	85	75	78	86	100
6190382	89	95	78	84	89	97
6190383	88	93	85	86	88	98
6190384	87	91	86	85	89	94
6190385	86	90	89	84	89	91
6190386	92	94	94	85	86	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

6190387	87	88	94	82	85	94
6190388	93	94	94	86	83	95
6190389	89	92	92	81	83	91
6190390	90	91	98	82	86	96
6190391	95	96	100	85	88	96
6190392	93	95	91	82	83	91
6190393	89	88	88	80	83	91
Blank	81	84	90	75	85	90
LCS	86	89	92	81	88	91
MS	84	84	62	76	82	92
MSD	88	89	77	81	87	100
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11027A20A

	Trifluorotoluene-F
6190394	89
Blank	88
LCS	121
LCSD	114
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11027A34A

	Trifluorotoluene-F
6190381	74
6190382	76
6190383	75
6190384	75
6190385	76
6190386	77
6190392	77
6190393	77
Blank	90
LCS	88
LCSD	86
Limits:	61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110270005A

	Butyraldehyde
6190381	102
6190382	103
6190383	119
6190384	115
6190385	105
6190386	108
6190392	110
6190393	114
Blank	99
LCS	110

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

MS	113
MSD	108
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110290006A

	2-Nitro-m-xylene
6190381	118
6190382	106
6190383	108
6190384	102
6190385	106
6190386	104
6190392	0*
6190393	118
Blank	120
LCS	118
LCSD	107
MS	101
MSD	103
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110310021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6190381	93	95
6190382	89	99
6190383	89	99
6190384	95	108
6190385	78	104
6190386	80	110
6190387	93	103
6190388	87	108
6190389	76	97
6190390	95	115
6190391	96	112
6190392	78	93
6190393	89	111
Blank	95	109
LCS	94	105
LCSD	94	116
MS	94	103
MSD	93	105
Limits:	53-139	45-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 110250023A

	Acetone
6190381	86
6190382	82
6190383	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

6190384	79
6190385	88
6190386	82
6190392	91
6190393	77
Blank	98
LCS	104
MS	84
MSD	85

Limits: 42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110310002A

	n-Triacontane-d62
6190381	101
6190382	97
6190383	104
6190384	101
6190385	101
6190386	108
6190392	106
6190393	106
Blank	109
LCS	107
MS	106
MSD	102

Limits: 50-150

Analysis Name: 27a Glycols by 8015B
Batch number: 110320013A

	Tetramethylene glycol
6190381	80
6190382	69
6190383	48
6190384	64
6190385	65
6190386	70
6190392	52
6190393	51
Blank	96
LCS	102
MS	102
MSD	99

Limits: 29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110340002A

	Chlorobenzene	Orthoterphenyl
6190381	62	78
6190382	55	82
6190383	64	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230289
Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

6190384	70	80
6190385	67	80
6190386	71	80
6190392	68	74
6190393	68	76
Blank	70	84
LCS	65	84
MS	63	82
MSD	66	78
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1230289 6190381-94

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Sampler's Signature: Blair for P. HARMAN						*Metals EPA 6010/6020/6A7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 82608 $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-032-SA5B-SB-4.5	1.24.2011	1425	soil	NONE	5-Encore samplers									X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-032-SA5B-SB-4.0-5.0	1.24.2011	1424	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X															
SL-032-SA5B-SB-9.5	1.24.2011	1430	soil	NONE	5-Encore samplers									X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-032-SA5B-SB-9.0-10.0	1.24.2011	1435	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X															
SL-032-SA5B-SB-14.5	1.24.2011	1440	soil	NONE	5-Encore samplers									X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-032-SA5B-SB-14.0-15.0	1.24.2011	1444	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X															
SL-033-SA5B-SB-4.5	1.24.2011	1008	soil	NONE	5-Encore samplers									X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-033-SA5B-SB-4.0-5.0	1.24.2011	1013	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X														
SL-033-SA5B-SB-9.5	1.24.2011	1020	soil	NONE	5-Encore samplers									X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-033-SA5B-SB-9.0-10.0	1.24.2011	1024	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X															
SL-033-SA5B-SB-14.5	1.24.2011	1028	soil	NONE	5-Encore samplers									X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-033-SA5B-SB-14.0-15.0	1.24.2011	1032	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X															
SL-151-SA5B-SB-4.5	1.24.2011	1318	soil	NONE	4-Encore samplers									X	X												
SL-151-SA5B-SB-4.0-5.0	1.24.2011	1325	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-151-SA5B-SB-7.0-8.0	1.24.2011	1310	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-152-SA5B-SB-4.5	1.24.2011	1452	soil	NONE	4-Encore samplers									X	X												
SL-152-SA5B-SB-4.0-5.0	1.24.2011	1457	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-152-SA5B-SB-9.0-10.0	1.24.2011	1445	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-153-SA5B-SB-4.5	1.24.2011	1605	soil	NONE	4-Encore samplers									X	X												
SL-153-SA5B-SB-4.0-4.5	1.24.2011	1600	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-154-SA5B-SB-4.5	1.24.2011	1045	soil	NONE	5-Encore samplers									X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-154-SA5B-SB-4.0-5.0	1.24.2011	1049	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X															
SL-155-SA5B-SB-4.0	1.24.2011	0928	soil	NONE	5-Encore samplers									X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-155-SA5B-SB-3.5-4.5	1.24.2011	0933	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X															
TB-012411	01.24.11	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature) — Date/Time: 1/21/2011 / 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 1/25/11 / 816 — Airbill No.(s): 889514321181, 889514321192, ... 1207

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

The sample depth for SL-153 was updated to 4.0-5.0 per PB. NM 1/26/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/25/2011
Group Number: 1230290
SDG: DX043
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA5B-SB-4.0-5.0 Soil	6190395
SL-032-SA5B-SB-9.0-10.0 Soil	6190396
SL-032-SA5B-SB-14.0-15.0 Soil	6190397
SL-033-SA5B-SB-4.0-5.0 Soil	6190398
SL-033-SA5B-SB-9.0-10.0 Soil	6190399
SL-033-SA5B-SB-14.0-15.0 Soil	6190400
SL-151-SA5B-SB-4.0-5.0 Soil	6190401
SL-151-SA5B-SB-7.0-8.0 Soil	6190402
SL-152-SA5B-SB-4.0-5.0 Soil	6190403
SL-152-SA5B-SB-9.0-10.0 Soil	6190404

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-032-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190395
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX043-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190395
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX043-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0307	U	0.0307	1.11	1
11031	12378-PeCDD	40321-76-4	0.139	JBQ	0.0368	5.56	1
11031	123478-HxCDD	39227-28-6	0.180	JBQ	0.0688	5.56	1
11031	123678-HxCDD	57653-85-7	0.855	JB	0.0717	5.56	1
11031	123789-HxCDD	19408-74-3	0.644	JBQ	0.0680	5.56	1
11031	1234678-HpCDD	35822-46-9	22.5	B	0.0894	5.56	1
11031	OCDD	3268-87-9	332	B	0.121	11.1	1
11031	2378-TCDF	51207-31-9	0.0396	U	0.0396	1.11	1
11031	12378-PeCDF	57117-41-6	0.0806	JB	0.0199	5.56	1
11031	23478-PeCDF	57117-31-4	0.175	JB	0.0207	5.56	1
11031	123478-HxCDF	70648-26-9	0.138	JBQ	0.0368	5.56	1
11031	123678-HxCDF	57117-44-9	0.171	JB	0.0298	5.56	1
11031	123789-HxCDF	72918-21-9	0.211	JB	0.0414	5.56	1
11031	234678-HxCDF	60851-34-5	0.145	JB	0.0342	5.56	1
11031	1234678-HpCDF	67562-39-4	1.95	JB	0.0296	5.56	1
11031	1234789-HpCDF	55673-89-7	0.180	JBQ	0.0473	5.56	1
11031	OCDF	39001-02-0	5.61	JB	0.0629	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-032-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190395
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX043-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-4.0-5.0

LLI Sample # SW 6190395
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:24

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX043-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 04:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190396
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX043-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190396
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX043-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0295 U	0.0295	1.11	1
11031	12378-PeCDD	40321-76-4	0.0331 JBQ	0.0325	5.55	1
11031	123478-HxCDD	39227-28-6	0.0356 U	0.0356	5.55	1
11031	123678-HxCDD	57653-85-7	0.179 JBQ	0.0361	5.55	1
11031	123789-HxCDD	19408-74-3	0.289 JBQ	0.0347	5.55	1
11031	1234678-HpCDD	35822-46-9	1.33 JBQ	0.0604	5.55	1
11031	OCDD	3268-87-9	20.2 B	0.0465	11.1	1
11031	2378-TCDF	51207-31-9	0.0437 JQ	0.0312	1.11	1
11031	12378-PeCDF	57117-41-6	0.0831 JBQ	0.0161	5.55	1
11031	23478-PeCDF	57117-31-4	0.137 JBQ	0.0168	5.55	1
11031	123478-HxCDF	70648-26-9	0.0697 JBQ	0.0286	5.55	1
11031	123678-HxCDF	57117-44-9	0.0819 JB	0.0225	5.55	1
11031	123789-HxCDF	72918-21-9	0.261 JB	0.0309	5.55	1
11031	234678-HxCDF	60851-34-5	0.122 JBQ	0.0275	5.55	1
11031	1234678-HpCDF	67562-39-4	0.420 JB	0.0202	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0897 JBQ	0.0420	5.55	1
11031	OCDF	39001-02-0	0.965 JB	0.0825	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190396
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX043-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-9.0-10.0

LLI Sample # SW 6190396
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:35

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX043-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 04:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190397
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0321 SDG#: DX043-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190397
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0321 SDG#: DX043-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0280 JBQ	0.0223	1.13	1
11031	12378-PeCDD	40321-76-4	0.0544 JBQ	0.0207	5.64	1
11031	123478-HxCDD	39227-28-6	0.0255 U	0.0255	5.64	1
11031	123678-HxCDD	57653-85-7	0.130 JBQ	0.0256	5.64	1
11031	123789-HxCDD	19408-74-3	0.192 JB	0.0242	5.64	1
11031	1234678-HpCDD	35822-46-9	0.745 JB	0.0389	5.64	1
11031	OCDD	3268-87-9	5.50 JB	0.0297	11.3	1
11031	2378-TCDF	51207-31-9	0.0253 U	0.0253	1.13	1
11031	12378-PeCDF	57117-41-6	0.0667 JB	0.0139	5.64	1
11031	23478-PeCDF	57117-31-4	0.0879 JBQ	0.0148	5.64	1
11031	123478-HxCDF	70648-26-9	0.0518 JB	0.0213	5.64	1
11031	123678-HxCDF	57117-44-9	0.0509 JBQ	0.0144	5.64	1
11031	123789-HxCDF	72918-21-9	0.175 JBQ	0.0218	5.64	1
11031	234678-HxCDF	60851-34-5	0.0716 JB	0.0181	5.64	1
11031	1234678-HpCDF	67562-39-4	0.191 JB	0.0108	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0693 JBQ	0.0269	5.64	1
11031	OCDF	39001-02-0	0.514 JB	0.0591	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	102	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	116	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-032-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190397
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0321 SDG#: DX043-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5B-SB-14.0-15.0

LLI Sample # SW 6190397
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:44

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0321 SDG#: DX043-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 05:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190398
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0334 SDG#: DX043-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190398
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0334 SDG#: DX043-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0224 JBQ	0.0213	1.11	1
11031	12378-PeCDD	40321-76-4	0.0448 JBQ	0.0204	5.53	1
11031	123478-HxCDD	39227-28-6	0.0317 JB	0.0300	5.53	1
11031	123678-HxCDD	57653-85-7	0.250 JB	0.0301	5.53	1
11031	123789-HxCDD	19408-74-3	0.333 JB	0.0299	5.53	1
11031	1234678-HpCDD	35822-46-9	1.30 JB	0.0385	5.53	1
11031	OCDD	3268-87-9	10.1 JB	0.0336	11.1	1
11031	2378-TCDF	51207-31-9	0.0240 U	0.0240	1.11	1
11031	12378-PeCDF	57117-41-6	0.0536 JBQ	0.0140	5.53	1
11031	23478-PeCDF	57117-31-4	0.128 JBQ	0.0140	5.53	1
11031	123478-HxCDF	70648-26-9	0.0673 JB	0.0263	5.53	1
11031	123678-HxCDF	57117-44-9	0.0939 JB	0.0191	5.53	1
11031	123789-HxCDF	72918-21-9	0.228 JB	0.0263	5.53	1
11031	234678-HxCDF	60851-34-5	0.125 JBQ	0.0215	5.53	1
11031	1234678-HpCDF	67562-39-4	0.387 JB	0.0153	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0836 JB	0.0257	5.53	1
11031	OCDF	39001-02-0	0.456 JB	0.0444	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190398
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0334 SDG#: DX043-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-4.0-5.0

LLI Sample # SW 6190398
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:13

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0334 SDG#: DX043-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 06:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Analysis Report

Sample Description: **SL-033-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190399
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0339 SDG#: DX043-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190399
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0339 SDG#: DX043-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0248	U	0.0248	1.12	1
11031	12378-PeCDD	40321-76-4	0.0879	JBQ	0.0239	5.59	1
11031	123478-HxCDD	39227-28-6	0.0348	U	0.0348	5.59	1
11031	123678-HxCDD	57653-85-7	0.225	JBQ	0.0345	5.59	1
11031	123789-HxCDD	19408-74-3	0.307	JBQ	0.0328	5.59	1
11031	1234678-HpCDD	35822-46-9	1.55	JB	0.0440	5.59	1
11031	OCDD	3268-87-9	18.9	B	0.0306	11.2	1
11031	2378-TCDF	51207-31-9	0.0344	JQ	0.0287	1.12	1
11031	12378-PeCDF	57117-41-6	0.0906	JB	0.0128	5.59	1
11031	23478-PeCDF	57117-31-4	0.167	JB	0.0138	5.59	1
11031	123478-HxCDF	70648-26-9	0.0745	JBQ	0.0282	5.59	1
11031	123678-HxCDF	57117-44-9	0.104	JB	0.0191	5.59	1
11031	123789-HxCDF	72918-21-9	0.218	JBQ	0.0290	5.59	1
11031	234678-HxCDF	60851-34-5	0.147	JB	0.0240	5.59	1
11031	1234678-HpCDF	67562-39-4	0.494	JB	0.0145	5.59	1
11031	1234789-HpCDF	55673-89-7	0.102	JBQ	0.0362	5.59	1
11031	OCDF	39001-02-0	1.05	JB	0.0654	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190399
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0339 SDG#: DX043-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-033-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-9.0-10.0

LLI Sample # SW 6190399
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:24

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0339 SDG#: DX043-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 07:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

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Analysis Report

Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190400
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0331 SDG#: DX043-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190400
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0331 SDG#: DX043-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0210	U	0.0210	1.11	1
11031	12378-PeCDD	40321-76-4	0.115	JB	0.0209	5.56	1
11031	123478-HxCDD	39227-28-6	0.0567	JB	0.0334	5.56	1
11031	123678-HxCDD	57653-85-7	0.226	JB	0.0343	5.56	1
11031	123789-HxCDD	19408-74-3	0.242	JBQ	0.0311	5.56	1
11031	1234678-HpCDD	35822-46-9	3.63	JB	0.0436	5.56	1
11031	OCDD	3268-87-9	21.1	B	0.0260	11.1	1
11031	2378-TCDF	51207-31-9	0.0842	JQ	0.0266	1.11	1
11031	12378-PeCDF	57117-41-6	0.174	JB	0.0137	5.56	1
11031	23478-PeCDF	57117-31-4	0.221	JB	0.0151	5.56	1
11031	123478-HxCDF	70648-26-9	0.0702	JBQ	0.0263	5.56	1
11031	123678-HxCDF	57117-44-9	0.113	JB	0.0178	5.56	1
11031	123789-HxCDF	72918-21-9	0.182	JB	0.0268	5.56	1
11031	234678-HxCDF	60851-34-5	0.141	JB	0.0209	5.56	1
11031	1234678-HpCDF	67562-39-4	0.435	JB	0.0150	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0715	JBQ	0.0329	5.56	1
11031	OCDF	39001-02-0	1.01	JB	0.0588	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	109	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	101	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	125	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190400
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0331 SDG#: DX043-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-033-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5B-SB-14.0-15.0

LLI Sample # SW 6190400
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:32

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0331 SDG#: DX043-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 08:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-151-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190401
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1514 SDG#: DX043-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-151-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190401
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1514 SDG#: DX043-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0623 JBQ	0.0297	1.15	1
11031	12378-PeCDD	40321-76-4	0.0869 JBQ	0.0242	5.77	1
11031	123478-HxCDD	39227-28-6	0.0263 U	0.0263	5.77	1
11031	123678-HxCDD	57653-85-7	0.0884 JBQ	0.0266	5.77	1
11031	123789-HxCDD	19408-74-3	0.110 JB	0.0260	5.77	1
11031	1234678-HpCDD	35822-46-9	1.57 JB	0.0595	5.77	1
11031	OCDD	3268-87-9	26.8 B	0.0353	11.5	1
11031	2378-TCDF	51207-31-9	0.0242 U	0.0242	1.15	1
11031	12378-PeCDF	57117-41-6	0.101 JBQ	0.0107	5.77	1
11031	23478-PeCDF	57117-31-4	0.0817 JBQ	0.0136	5.77	1
11031	123478-HxCDF	70648-26-9	0.0541 JBQ	0.0166	5.77	1
11031	123678-HxCDF	57117-44-9	0.0564 JBQ	0.0121	5.77	1
11031	123789-HxCDF	72918-21-9	0.111 JB	0.0185	5.77	1
11031	234678-HxCDF	60851-34-5	0.0786 JBQ	0.0149	5.77	1
11031	1234678-HpCDF	67562-39-4	0.143 JB	0.0111	5.77	1
11031	1234789-HpCDF	55673-89-7	0.120 JBQ	0.0259	5.77	1
11031	OCDF	39001-02-0	0.461 JBQ	0.0569	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-151-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190401
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1514 SDG#: DX043-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-151-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-4.0-5.0

LLI Sample # SW 6190401
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:23

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1514 SDG#: DX043-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 12:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-151-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190402
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1517 SDG#: DX043-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-151-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190402
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1517 SDG#: DX043-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0284	U	0.0284	1.16	1
11031	12378-PeCDD	40321-76-4	0.0524	JBQ	0.0238	5.78	1
11031	123478-HxCDD	39227-28-6	0.110	JBQ	0.0364	5.78	1
11031	123678-HxCDD	57653-85-7	0.430	JB	0.0358	5.78	1
11031	123789-HxCDD	19408-74-3	0.132	JBQ	0.0362	5.78	1
11031	1234678-HpCDD	35822-46-9	9.00	B	0.0986	5.78	1
11031	OCDD	3268-87-9	185	B	0.0602	11.6	1
11031	2378-TCDF	51207-31-9	0.0254	U	0.0254	1.16	1
11031	12378-PeCDF	57117-41-6	0.0352	JBQ	0.0104	5.78	1
11031	23478-PeCDF	57117-31-4	0.0627	JBQ	0.0123	5.78	1
11031	123478-HxCDF	70648-26-9	0.0774	JB	0.0340	5.78	1
11031	123678-HxCDF	57117-44-9	0.0613	JB	0.0223	5.78	1
11031	123789-HxCDF	72918-21-9	0.140	JB	0.0277	5.78	1
11031	234678-HxCDF	60851-34-5	0.121	JBQ	0.0250	5.78	1
11031	1234678-HpCDF	67562-39-4	0.693	JB	0.0376	5.78	1
11031	1234789-HpCDF	55673-89-7	0.321	JB	0.0754	5.78	1
11031	OCDF	39001-02-0	1.73	JB	0.0828	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-151-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190402
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1517 SDG#: DX043-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-151-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5B-SB-7.0-8.0

LLI Sample # SW 6190402
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 13:10

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1517 SDG#: DX043-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 13:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-152-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190403
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1524 SDG#: DX043-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-152-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190403
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1524 SDG#: DX043-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0241	U	0.0241	1.16	1
11031	12378-PeCDD	40321-76-4	0.0202	U	0.0202	5.81	1
11031	123478-HxCDD	39227-28-6	0.0210	U	0.0210	5.81	1
11031	123678-HxCDD	57653-85-7	0.0644	JBQ	0.0214	5.81	1
11031	123789-HxCDD	19408-74-3	0.0864	JB	0.0210	5.81	1
11031	1234678-HpCDD	35822-46-9	0.303	JB	0.0341	5.81	1
11031	OCDD	3268-87-9	1.52	JB	0.0358	11.6	1
11031	2378-TCDF	51207-31-9	0.0215	U	0.0215	1.16	1
11031	12378-PeCDF	57117-41-6	0.0109	U	0.0109	5.81	1
11031	23478-PeCDF	57117-31-4	0.0724	JBQ	0.0112	5.81	1
11031	123478-HxCDF	70648-26-9	0.0585	JBQ	0.0147	5.81	1
11031	123678-HxCDF	57117-44-9	0.0337	JBQ	0.0100	5.81	1
11031	123789-HxCDF	72918-21-9	0.0234	JBQ	0.0134	5.81	1
11031	234678-HxCDF	60851-34-5	0.0257	JBQ	0.0119	5.81	1
11031	1234678-HpCDF	67562-39-4	0.101	JBQ	0.0106	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0607	JBQ	0.0217	5.81	1
11031	OCDF	39001-02-0	0.275	JBQ	0.0556	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-152-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190403
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1524 SDG#: DX043-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-152-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-4.0-5.0

LLI Sample # SW 6190403
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:57

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1524 SDG#: DX043-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 14:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-152-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190404
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1529 SDG#: DX043-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-152-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190404
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1529 SDG#: DX043-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0240	U	0.0240	1.16	1
11031	12378-PeCDD	40321-76-4	0.0229	U	0.0229	5.81	1
11031	123478-HxCDD	39227-28-6	0.0261	JBQ	0.0203	5.81	1
11031	123678-HxCDD	57653-85-7	0.0197	U	0.0197	5.81	1
11031	123789-HxCDD	19408-74-3	0.0221	JBQ	0.0179	5.81	1
11031	1234678-HpCDD	35822-46-9	0.307	JBQ	0.0315	5.81	1
11031	OCDD	3268-87-9	1.35	JB	0.0348	11.6	1
11031	2378-TCDF	51207-31-9	0.0286	JQ	0.0220	1.16	1
11031	12378-PeCDF	57117-41-6	0.0294	JBQ	0.0110	5.81	1
11031	23478-PeCDF	57117-31-4	0.0635	JB	0.0115	5.81	1
11031	123478-HxCDF	70648-26-9	0.0772	JB	0.0201	5.81	1
11031	123678-HxCDF	57117-44-9	0.0437	JB	0.0133	5.81	1
11031	123789-HxCDF	72918-21-9	0.0684	JBQ	0.0180	5.81	1
11031	234678-HxCDF	60851-34-5	0.0815	JBQ	0.0157	5.81	1
11031	1234678-HpCDF	67562-39-4	0.241	JB	0.0144	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0596	JBQ	0.0314	5.81	1
11031	OCDF	39001-02-0	0.334	JBQ	0.0597	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	100	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	124	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	101	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-152-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190404
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1529 SDG#: DX043-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-152-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5B-SB-9.0-10.0

LLI Sample # SW 6190404
LLI Group # 1230290
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 14:45

Submitted: 01/25/2011 09:15
Reported: 02/28/2011 21:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1529 SDG#: DX043-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11033001	02/12/2011 15:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11033001	02/03/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230290
Reported: 02/28/11 at 09:38 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11027162401B	Sample number(s): 6190401-6190404								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11039162401A	Sample number(s): 6190395-6190400								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11033001	Sample number(s): 6190395-6190404								
2378-TCDD	0.0391 J	0.0263	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0957 J	0.0238	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0565 J	0.0219	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0638 J	0.0231	5.00	ng/kg	100		76-134		
123789-HxCDD	0.0761 J	0.0217	5.00	ng/kg	97		64-162		
1234678-HpCDD	0.355 J	0.0328	5.00	ng/kg	98		70-140		
OCDD	0.568 J	0.0255	10.0	ng/kg	99		78-144		
2378-TCDF	0.0284 U	0.0284	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0858 J	0.0126	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0990 J	0.0131	5.00	ng/kg	97		68-160		
123478-HxCDF	0.119 J	0.0215	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0953 J	0.0166	5.00	ng/kg	97		84-130		
123789-HxCDF	0.107 J	0.0193	5.00	ng/kg	98		78-130		
234678-HxCDF	0.145 J	0.0195	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.362 J	0.0133	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.100 J	0.0196	5.00	ng/kg	100		78-138		
OCDF	0.435 J	0.0459	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11027162401B	Sample number(s): 6190401-6190404					BKG: P190389			
28a Moisture Content by 160.3						14.0	14.0	0	20
Batch number: 11039162401A	Sample number(s): 6190395-6190400					BKG: P190392			
28a Moisture Content by 160.3						12.1	12.0	1	20
Batch number: 11033001	Sample number(s): 6190395-6190404					UNSPK: P189718			
2378-TCDD	95	97	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230290
Reported: 02/28/11 at 09:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	96	93	70-142	3	25				
123478-HxCDD	98	99	70-164	1	25				
123678-HxCDD	98	99	76-134	1	25				
123789-HxCDD	96	97	64-162	1	25				
1234678-HpCDD	96	98	70-140	1	25				
OCDD	97	97	78-144	0	25				
2378-TCDF	100	99	75-158	0	25				
12378-PeCDF	96	95	80-134	1	25				
23478-PeCDF	96	93	68-160	3	25				
123478-HxCDF	101	99	72-134	2	25				
123678-HxCDF	96	95	84-130	1	25				
123789-HxCDF	98	96	78-130	2	25				
234678-HxCDF	99	97	70-156	1	25				
1234678-HpCDF	98	98	82-122	0	25				
1234789-HpCDF	98	98	78-138	1	25				
OCDF	101	100	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11033001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6190395	79	74	72	83	75	73
6190396	79	77	74	90	76	78
6190397	77	76	64	85	71	67
6190398	80	76	63	81	75	72
6190399	74	69	57	79	64	61
6190400	91	83	68	94	83	76
6190401	71	69	69	93	76	70
6190402	72	76	54	79	72	74
6190403	76	74	60	84	72	72
6190404	80	79	64	90	77	80
Blank	81	76	70	87	78	88
MS	70	66	63	75	74	80
MSD	69	69	67	77	71	75
OPR	70	67	69	87	72	84
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6190395	91	70	72	92	92	85
6190396	107	63	56	90	94	82
6190397	116	57	50	88	102	81
6190398	102	70	65	91	101	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230290
Reported: 02/28/11 at 09:38 PM

Surrogate Quality Control

6190399	108	53	46	88	92	73
6190400	125	69	62	105	109	91
6190401	111	58	52	86	86	81
6190402	81	51	44	97	101	80
6190403	102	59	53	93	98	79
6190404	124	68	58	101	91	91
Blank	92	75	78	99	81	86
MS	91	71	67	88	86	81
MSD	84	71	71	83	88	76
OPR	99	71	70	90	74	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6190395	81	84	87	85	73	80
6190396	85	86	87	84	72	84
6190397	81	87	84	82	71	88
6190398	84	86	89	89	73	82
6190399	76	80	79	81	67	82
6190400	92	101	98	99	80	97
6190401	84	86	87	86	68	92
6190402	84	83	79	81	74	97
6190403	80	83	81	82	68	80
6190404	93	100	96	92	72	88
Blank	84	86	87	93	76	83
MS	79	83	83	83	64	77
MSD	76	79	80	83	65	71
OPR	79	81	88	90	67	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1230290 6190395-404

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | CHAIN OF CUSTODY RECORD

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Sampler's Signature: Steve for P. HAHN

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Diox/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Pern/Florida Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH (EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-033-SA5B-SB-4.5	1.24.2011	1008	soil	NONE	5-Encore samplers												X	X	X	X	X	X	X	X	X	X	
SL-033-SA5B-SB-4.0-5.0	1.24.2011	1013	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X	X	X											
SL-033-SA5B-SB-9.5	1.24.2011	1020	soil	NONE	5-Encore samplers												X	X	X	X	X	X	X	X	X	X	
SL-033-SA5B-SB-9.0-10.0	1.24.2011	1024	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X		X	X	X											
SL-033-SA5B-SB-14.5	1.24.2011	1028	soil	NONE	5-Encore samplers												X	X	X	X	X	X	X	X	X	X	
SL-033-SA5B-SB-14.0-15.0	1.24.2011	1032	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X		X	X	X											
SL-151-SA5B-SB-4.5	1.24.2011	1310	soil	NONE	5-Encore samplers												X	X	X	X	X	X	X	X	X	X	
SL-151-SA5B-SB-4.0-5.0	1.24.2011	1223	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-151-SA5B-SB-7.5-8.0	1.24.2011	1310	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-152-SA5B-SB-4.5	1.24.2011	1452	soil	NONE	4-Encore samplers									X	X												
SL-152-SA5B-SB-4.0-5.0	1.24.2011	1457	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-152-SA5B-SB-9.0-10.0	1.24.2011	1445	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-154-SA5B-SB-4.5	1.24.2011	1045	soil	NONE	5-Encore samplers																						
SL-154-SA5B-SB-4.0-5.0	1.24.2011	1049	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X		X	X	X											
SL-154-SA5B-SB-9.5	1.24.2011	0929	soil	NONE	5-Encore samplers												X	X	X	X	X	X	X	X	X	X	
SL-154-SA5B-SB-9.0-10.0	1.24.2011	0933	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X		X	X	X											
TB-012417	01.24.11	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature) • Date/Time 1/27/2011 / 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) • Date/Time 1/25/11 / 1846 — Airbill No.(s) 869514321181, 869514321192, ... 1207

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/25/2011
Group Number: 1230291
SDG: DX044
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-153-SA5B-SB-4.0-5.0 Soil	6190405
SL-154-SA5B-SB-4.0-5.0 Soil	6190406
SL-155-SA5B-SB-3.5-4.5 Soil	6190407

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-153-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190405
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1533 SDG#: DX044-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-153-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190405
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1533 SDG#: DX044-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0168 JBQ	0.00719	1.11	1
11031	12378-PeCDD	40321-76-4	0.0323 JB	0.00686	5.53	1
11031	123478-HxCDD	39227-28-6	0.0125 JBQ	0.00785	5.53	1
11031	123678-HxCDD	57653-85-7	0.0323 JBQ	0.00819	5.53	1
11031	123789-HxCDD	19408-74-3	0.0473 JB	0.00796	5.53	1
11031	1234678-HpCDD	35822-46-9	0.211 JBQ	0.00985	5.53	1
11031	OCDD	3268-87-9	0.903 JB	0.0136	11.1	1
11031	2378-TCDF	51207-31-9	0.0114 JBQ	0.00564	1.11	1
11031	12378-PeCDF	57117-41-6	0.0339 JB	0.00398	5.53	1
11031	23478-PeCDF	57117-31-4	0.0487 JBQ	0.00398	5.53	1
11031	123478-HxCDF	70648-26-9	0.0311 JBQ	0.00741	5.53	1
11031	123678-HxCDF	57117-44-9	0.0352 JBQ	0.00642	5.53	1
11031	123789-HxCDF	72918-21-9	0.0598 JBQ	0.00730	5.53	1
11031	234678-HxCDF	60851-34-5	0.0370 JBQ	0.00642	5.53	1
11031	1234678-HpCDF	67562-39-4	0.0853 JB	0.00819	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0478 JB	0.0112	5.53	1
11031	OCDF	39001-02-0	0.190 JBQ	0.0102	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-153-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190405
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1533 SDG#: DX044-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-153-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5B-SB-4.0-5.0

LLI Sample # SW 6190405
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 16:08

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1533 SDG#: DX044-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/16/2011 14:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11027162401B	01/27/2011 18:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190406
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1544 SDG#: DX044-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-154-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190406
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1544 SDG#: DX044-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0160	JB	0.00569	1.14	1
11031	12378-PeCDD	40321-76-4	0.0272	JB	0.00660	5.69	1
11031	123478-HxCDD	39227-28-6	0.0205	JB	0.00785	5.69	1
11031	123678-HxCDD	57653-85-7	0.0344	JB	0.00808	5.69	1
11031	123789-HxCDD	19408-74-3	0.0516	JB	0.00739	5.69	1
11031	1234678-HpCDD	35822-46-9	0.179	JB	0.0102	5.69	1
11031	OCDD	3268-87-9	0.632	JB	0.0144	11.4	1
11031	2378-TCDF	51207-31-9	0.00963	JBQ	0.00557	1.14	1
11031	12378-PeCDF	57117-41-6	0.0357	JBQ	0.00421	5.69	1
11031	23478-PeCDF	57117-31-4	0.0641	JB	0.00478	5.69	1
11031	123478-HxCDF	70648-26-9	0.0332	JB	0.00694	5.69	1
11031	123678-HxCDF	57117-44-9	0.0299	JB	0.00557	5.69	1
11031	123789-HxCDF	72918-21-9	0.0443	JB	0.00660	5.69	1
11031	234678-HxCDF	60851-34-5	0.0318	JB	0.00614	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0896	JB	0.0142	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0394	JB	0.0223	5.69	1
11031	OCDF	39001-02-0	0.146	JB	0.0181	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-154-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190406
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1544 SDG#: DX044-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-154-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5B-SB-4.0-5.0

LLI Sample # SW 6190406
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 10:49

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1544 SDG#: DX044-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/16/2011 15:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401A	02/08/2011 10:00	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-155-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190407
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1553 SDG#: DX044-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-155-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190407
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1553 SDG#: DX044-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00687 U	0.00687	1.13	1
11031	12378-PeCDD	40321-76-4	0.0173 JBQ	0.00664	5.63	1
11031	123478-HxCDD	39227-28-6	0.0115 JBQ	0.0106	5.63	1
11031	123678-HxCDD	57653-85-7	0.0419 JBQ	0.0107	5.63	1
11031	123789-HxCDD	19408-74-3	0.0750 JB	0.0106	5.63	1
11031	1234678-HpCDD	35822-46-9	0.154 JB	0.0114	5.63	1
11031	OCDD	3268-87-9	0.559 JB	0.0142	11.3	1
11031	2378-TCDF	51207-31-9	0.00552 U	0.00552	1.13	1
11031	12378-PeCDF	57117-41-6	0.0298 JBQ	0.00428	5.63	1
11031	23478-PeCDF	57117-31-4	0.0477 JB	0.00462	5.63	1
11031	123478-HxCDF	70648-26-9	0.0275 JB	0.00664	5.63	1
11031	123678-HxCDF	57117-44-9	0.0304 JB	0.00552	5.63	1
11031	123789-HxCDF	72918-21-9	0.0326 JBQ	0.00687	5.63	1
11031	234678-HxCDF	60851-34-5	0.0249 JBQ	0.00563	5.63	1
11031	1234678-HpCDF	67562-39-4	0.0951 JBQ	0.0119	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0725 JBQ	0.0177	5.63	1
11031	OCDF	39001-02-0	0.166 JB	0.0142	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-155-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190407
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1553 SDG#: DX044-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-155-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5B-SB-3.5-4.5

LLI Sample # SW 6190407
LLI Group # 1230291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/24/2011 09:33

Submitted: 01/25/2011 09:15
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1553 SDG#: DX044-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/16/2011 16:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	2	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230291
Reported: 02/27/11 at 10:07 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11027162401B	Sample number(s): 6190405								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11039162401A	Sample number(s): 6190406								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11040162401A	Sample number(s): 6190407								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11035001	Sample number(s): 6190405-6190407								
2378-TCDD	0.0165 J	0.00520	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0235 J	0.00550	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0267 J	0.00720	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0315 J	0.00730	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0362 J	0.00700	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.217 J	0.00960	5.00	ng/kg	99		70-140		
OCDD	0.572 J	0.0113	10.0	ng/kg	99		78-144		
2378-TCDF	0.0175 J	0.00520	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0337 J	0.00390	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0768 J	0.00390	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0657 J	0.00960	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0499 J	0.00800	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0654 J	0.00960	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0694 J	0.00830	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.231 J	0.00730	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0469 J	0.0102	5.00	ng/kg	99		78-138		
OCDF	0.291 J	0.0113	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11027162401B	Sample number(s): 6190405			BKG: P190389					
28a Moisture Content by 160.3						14.0	14.0	0	20
Batch number: 11039162401A	Sample number(s): 6190406			BKG: P190392					
28a Moisture Content by 160.3						12.1	12.0	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230291
Reported: 02/27/11 at 10:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11040162401A	Sample number(s): 6190407			BKG: P190393					
28a Moisture Content by 160.3						11.2	9.6	15	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11035001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6190405	64	70	65	72	69	69
6190406	72	62	58	70	63	63
6190407	66	59	57	68	63	59
Blank	85	79	77	90	83	83
OPR	74	69	54	73	68	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6190405	77	66	64	78	74	72
6190406	77	56	54	85	74	75
6190407	75	59	52	84	72	73
Blank	92	77	71	103	88	88
OPR	73	59	55	91	77	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6190405	73	73	74	72	62	76
6190406	75	77	77	71	62	73
6190407	75	74	77	70	58	68
Blank	90	90	91	84	76	88
OPR	76	76	75	70	65	80
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1230291 6190405-07

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | CHAIN OF CUSTODY RECORD

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Sampler: Signature: for P. HAHN

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Diox/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196 @	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-ORO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: *pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-033-SA5B-SB-4.5	1.24.2011	1008	soil	NONE	5-Encore samplers									X	X	X											
SL-033-SA5B-SB-4.0-5.0	1.24.2011	1013	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-033-SA5B-SB-9.5	1.24.2011	1020	soil	NONE	5-Encore samplers									X	X	X											
SL-033-SA5B-SB-9.0-10.0	1.24.2011	1024	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-033-SA5B-SB-14.5	1.24.2011	1028	soil	NONE	5-Encore samplers									X	X	X											
SL-033-SA5B-SB-14.0-15.0	1.24.2011	1032	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-151-SA5B-SB-4.5	1.24.2011	1318	soil	NONE	5-Encore samplers									X	X	X											
SL-151-SA5B-SB-4.0-5.0	1.24.2011	1323	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-151-SA5B-SB-9.0-10.0	1.24.2011	1330	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-152-SA5B-SB-4.5	1.24.2011	1452	soil	NONE	4-Encore samplers																						
SL-152-SA5B-SB-4.0-5.0	1.24.2011	1457	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-152-SA5B-SB-9.0-10.0	1.24.2011	1445	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-154-SA5B-SB-4.5	1.24.2011	1045	soil	NONE	4-Encore samplers																						
SL-154-SA5B-SB-4.0-5.0	1.24.2011	1049	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-154-SA5B-SB-9.0-10.0	1.24.2011	0928	soil	NONE	5-Encore samplers																						
SL-154-SA5B-SB-14.5	1.24.2011	0935	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X		X	X	X											
TB-012411	01.24.11	1630	WATER	HCl	4-40 mL VOA VIALS												X	X	X	X	X	X	X	X	X	X	
														X	X	X											

Relinquished by: (Signature) Date/Time 1/21/2011 / 17:06 Received for Laboratory by: (Signature)

Received by: (Signature) Date/Time 1/25/11/846 Airbill No.(s) 869514321181, 869514321192, ... 1207

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

The ~~SAP~~ NLM 11/26/11 sample depth was updated to 4.0-5.0 for SL-153 per PB. NLM 11/26/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/26/2011
Group Number: 1230506
SDG: DE068
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-148-SA5B-SB-4.0-5.0 Soil	6191426
SL-149-SA5B-SB-3.5-4.5 Soil	6191427
SL-150-SA5B-SB-4.0-5.0 Soil	6191428
SL-156-SA5B-SB-4.0-5.0 Soil	6191429
TB-012511 Water	6191430

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	0.43	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-148-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.63
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	31.5	J	19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-148-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

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Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.82
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: SL-148-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.3	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.9		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.0	U	8.0	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the							

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Sample Description: **SL-148-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.64	22.4		1
07914	Boron	7440-42-8	1.16	J	0.998	5.61		1
01650	Calcium	7440-70-2	1,950		6.88	22.4		1
01654	Iron	7439-89-6	18,900		5.28	22.4		1
01656	Lithium	7439-93-2	19.4		0.25	2.2		1
01657	Magnesium	7439-95-4	3,340		2.85	11.2		1
06958	Manganese	7439-96-5	136		0.0875	0.561		1
10145	Phosphorus	7723-14-0	98.8		0.628	11.2		1
01662	Potassium	7440-09-7	990		20.2	56.1		1
01667	Sodium	7440-23-5	112		41.8	112		1
07968	Strontium	7440-24-6	18.5		0.0695	0.561		1
06969	Tin	7440-31-5	2.28	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,190		0.426	1.12		1
10146	Zirconium	7440-67-7	1.12	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0914	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.68		0.0906	0.453		2
06126	Barium	7440-39-3	58.8		0.122	0.453		2
06127	Beryllium	7440-41-7	0.458		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0476	J	0.0453	0.113		2
06131	Chromium	7440-47-3	15.3		0.136	0.453		2
06132	Cobalt	7440-48-4	3.40		0.0227	0.113		2
06133	Copper	7440-50-8	6.23		0.0748	0.453		2
06135	Lead	7439-92-1	4.49		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.294		0.0566	0.113		2
06139	Nickel	7440-02-0	8.25		0.113	0.453		2
06141	Selenium	7782-49-2	0.0515	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0194	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.210		0.0340	0.113		2
06148	Vanadium	7440-62-2	35.4		0.0249	0.113		2
06149	Zinc	7440-66-6	34.4		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1

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Sample Description: SL-148-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.1		0.92	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	513		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-148-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011	01:45	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	01/31/2011	22:14	Sara E Johnson	20.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102623580	01/26/2011	13:23	Larry E Bevins	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-148-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102623580	01/26/2011 13:36	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102623580	01/26/2011 13:36	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102623580	01/26/2011 13:24	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/07/2011 19:08	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 00:19	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/02/2011 23:04	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 16:03	Elizabeth J Marin	21.82
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102623580	01/26/2011 13:24	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 17:59	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 21:32	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 01:10	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 03:29	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 00:58	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 22:15	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 04:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-148-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191426
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE068-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:23	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 01:07	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:23	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 01:07	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:23	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201B	02/09/2011 08:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201B	02/09/2011 08:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201B	02/02/2011 20:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 18:47	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201B	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201B	02/02/2011 07:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401B	02/08/2011 10:00	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-149-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191427
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE068-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.99
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.99
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.99
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.99
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.99
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.99
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.99
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.99
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.99
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.99
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.99
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.99
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.99
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.99
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.99
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.99
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.99
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.99
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.99
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.99
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.99
06192	Methylene Chloride	75-09-2	0.51	J	0.25	4.2		0.99
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.99

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-149-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191427
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE068-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.99
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.99
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.99
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.99
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.99
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-149-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191427
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE068-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	710	U	710	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	16	J	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-149-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191427
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE068-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.33	21.2		1
07914	Boron	7440-42-8	0.943	U	0.943	5.30		1
01650	Calcium	7440-70-2	2,210		6.49	21.2		1
01654	Iron	7439-89-6	20,000		4.99	21.2		1
01656	Lithium	7439-93-2	20.2		0.23	2.1		1
01657	Magnesium	7439-95-4	4,340		2.69	10.6		1
06958	Manganese	7439-96-5	305		0.0826	0.530		1
10145	Phosphorus	7723-14-0	283		0.593	10.6		1
01662	Potassium	7440-09-7	1,960		19.1	53.0		1
01667	Sodium	7440-23-5	604		39.5	106		1
07968	Strontium	7440-24-6	21.1		0.0657	0.530		1
06969	Tin	7440-31-5	2.50	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,160		0.403	1.06		1
10146	Zirconium	7440-67-7	0.988	J	0.890	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0623	U	0.0623	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.73		0.0831	0.415		2
06126	Barium	7440-39-3	82.1		0.112	0.415		2

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-149-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191427
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE068-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.567	0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0603 J	0.0415	0.104		2
06131	Chromium	7440-47-3	14.3	0.125	0.415		2
06132	Cobalt	7440-48-4	5.49	0.0208	0.104		2
06133	Copper	7440-50-8	6.37	0.0685	0.415		2
06135	Lead	7439-92-1	3.68	0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.278	0.0519	0.104		2
06139	Nickel	7440-02-0	9.35	0.104	0.415		2
06141	Selenium	7782-49-2	0.0567 J	0.0415	0.415		2
06142	Silver	7440-22-4	0.0125 U	0.0125	0.104		2
06145	Thallium	7440-28-0	0.226	0.0312	0.104		2
06148	Vanadium	7440-62-2	30.7	0.0228	0.104		2
06149	Zinc	7440-66-6	51.1	0.582	3.12		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6	0.85	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	558	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.80	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-149-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191427
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE068-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-149-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 02:08	Angela D Sneeringer	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	01/31/2011 22:34	Sara E Johnson	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102623580	01/26/2011 13:26	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102623580	01/26/2011 13:36	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102623580	01/26/2011 13:36	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102623580	01/26/2011 13:27	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 00:44	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 00:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 02:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 01:08	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-149-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191427
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE068-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:26	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 01:08	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:26	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201B	02/09/2011 11:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11032621201B	02/02/2011 21:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11034243202A	02/08/2011 18:53	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201B	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11032621201B	02/02/2011 07:55	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401B	02/01/2011 11:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-150-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191428
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE068-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.9
06192	Methylene Chloride	75-09-2	0.53	J	0.24	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191428
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE068-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		24.61
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-150-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191428
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE068-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.83	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	1.8	J	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191428
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE068-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.89	J	0.75	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		5.51	21.9		1
07914	Boron	7440-42-8	1.93	J	0.974	5.47		1
01650	Calcium	7440-70-2	2,260		6.71	21.9		1
01654	Iron	7439-89-6	26,400		5.16	21.9		1
01656	Lithium	7439-93-2	26.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,000		2.78	10.9		1
06958	Manganese	7439-96-5	629		0.0854	0.547		1
10145	Phosphorus	7723-14-0	194		0.613	10.9		1
01662	Potassium	7440-09-7	1,500		19.7	54.7		1
01667	Sodium	7440-23-5	278		40.8	109		1
07968	Strontium	7440-24-6	23.3		0.0679	0.547		1
06969	Tin	7440-31-5	2.16	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,070		0.416	1.09		1
10146	Zirconium	7440-67-7	1.83	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0854	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.93		0.0884	0.442		2
06126	Barium	7440-39-3	94.9		0.119	0.442		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191428
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE068-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.679	0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0694 J	0.0442	0.111		2
06131	Chromium	7440-47-3	18.2	0.133	0.442		2
06132	Cobalt	7440-48-4	4.07	0.0221	0.111		2
06133	Copper	7440-50-8	7.68	0.0729	0.442		2
06135	Lead	7439-92-1	4.93	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.424	0.0553	0.111		2
06139	Nickel	7440-02-0	12.3	0.111	0.442		2
06141	Selenium	7782-49-2	0.0442 U	0.0442	0.442		2
06142	Silver	7440-22-4	0.0488 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.199	0.0332	0.111		2
06148	Vanadium	7440-62-2	34.7	0.0243	0.111		2
06149	Zinc	7440-66-6	43.1	0.619	3.32		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0084 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	480	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.28	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-150-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191428
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE068-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-150-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011 02:30	Angela D Sneeringer	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	01/31/2011 22:54	Sara E Johnson	24.61
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102623580	01/26/2011 13:29	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102623580	01/26/2011 13:36	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102623580	01/26/2011 13:35	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102623580	01/26/2011 13:30	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 01:09	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 01:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 02:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 13:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 01:10	David K Beck	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191428
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE068-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:29	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 01:10	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:29	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201B	02/09/2011 11:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11032621201B	02/09/2011 04:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 19:12	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201B	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11032621201B	02/08/2011 12:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401B	02/01/2011 11:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-156-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.94
06192	Methylene Chloride	75-09-2	0.57	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.94

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Sample Description: SL-156-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.01
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	44.6		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-156-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1

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Sample Description: SL-156-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.44
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	1,200	J	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: SL-156-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.96	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	4.1		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.9	U	7.9	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the							

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Sample Description: **SL-156-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

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Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6804 SDG#: DE068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.58	22.2		1
07914	Boron	7440-42-8	1.77	J	0.988	5.55		1
01650	Calcium	7440-70-2	2,610		6.81	22.2		1
01654	Iron	7439-89-6	22,200		5.23	22.2		1
01656	Lithium	7439-93-2	21.8		0.24	2.2		1
01657	Magnesium	7439-95-4	3,680		2.82	11.1		1
06958	Manganese	7439-96-5	177		0.0866	0.555		1
10145	Phosphorus	7723-14-0	397		0.622	11.1		1
01662	Potassium	7440-09-7	1,400		20.0	55.5		1
01667	Sodium	7440-23-5	111		41.4	111		1
07968	Strontium	7440-24-6	21.8		0.0688	0.555		1
06969	Tin	7440-31-5	2.31	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,010		0.422	1.11		1
10146	Zirconium	7440-67-7	2.79	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0871	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.16		0.0888	0.444		2
06126	Barium	7440-39-3	72.6		0.120	0.444		2
06127	Beryllium	7440-41-7	0.642		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.149		0.0444	0.111		2
06131	Chromium	7440-47-3	20.3		0.133	0.444		2
06132	Cobalt	7440-48-4	5.05		0.0222	0.111		2
06133	Copper	7440-50-8	7.49		0.0733	0.444		2
06135	Lead	7439-92-1	7.53		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.274		0.0555	0.111		2
06139	Nickel	7440-02-0	11.4		0.111	0.444		2
06141	Selenium	7782-49-2	0.0950	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0184	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.243		0.0333	0.111		2
06148	Vanadium	7440-62-2	34.8		0.0244	0.111		2
06149	Zinc	7440-66-6	44.7		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0031	0.108		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	500		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-156-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110272AA	01/28/2011	02:53	Angela D Sneeringer	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	01/31/2011	23:13	Sara E Johnson	22.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102623580	01/26/2011	13:32	Larry E Bevins	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-156-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE068-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102623580	01/26/2011 13:36	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102623580	01/26/2011 13:36	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102623580	01/26/2011 13:33	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLA026	02/08/2011 10:06	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 01:34	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 01:42	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLA026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34A	01/27/2011 16:39	Elizabeth J Marin	21.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102623580	01/26/2011 13:33	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110290006A	02/03/2011 18:42	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110270005A	01/28/2011 21:41	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 02:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110270005A	01/27/2011 14:40	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110290006A	01/31/2011 05:30	David V Hershey Jr	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110340002A	02/05/2011 03:54	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 01:12	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 22:32	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 09:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110340002A	02/03/2011 13:30	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1

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Analysis Report

Sample Description: SL-156-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191429
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE068-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110275708001	01/31/2011 14:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06126	Barium	SW-846 6020	1	110271026001D	02/07/2011 08:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06133	Copper	SW-846 6020	1	110271026001A	02/08/2011 01:12	David K Beck	2
06135	Lead	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026001C	02/07/2011 08:32	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026001A	02/08/2011 01:12	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026001B	02/07/2011 08:32	David K Beck	2
06142	Silver	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026001A	02/07/2011 08:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711001	01/28/2011 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708001	01/27/2011 20:21	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026001	01/27/2011 20:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711001	01/27/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11038038201B	02/09/2011 08:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11038038201B	02/09/2011 08:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11032621201B	02/09/2011 04:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11034243202A	02/08/2011 19:37	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11028102201A	01/29/2011 10:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11038038201B	02/07/2011 14:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	3	11032621201B	02/08/2011 12:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11028102201A	01/28/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11034243202A	02/03/2011 19:35	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401B	02/08/2011 10:00	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-012511 Water
SSFL Area IV Collocated Soil Sampling
TB-012511

LLI Sample # WW 6191430
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 16:30

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6805 SDG#: DE068-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-012511 Water
SSFL Area IV Collocated Soil Sampling
TB-012511

LLI Sample # WW 6191430
LLI Group # 1230506
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 16:30

Submitted: 01/26/2011 09:50
Reported: 02/11/2011 11:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6805 SDG#: DE068-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110282AA	01/28/2011	04:39	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110311AA	01/31/2011	12:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110282AA	01/28/2011	04:39	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110311AA	01/31/2011	12:21	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11027A20A	01/27/2011	20:06	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11027A20A	01/27/2011	20:06	Butch A Sokolowski	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110272AA	Sample number(s): 6191426-6191429									
Acetone	6.7	U	6.7	8.0	ug/kg	156	158	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	99	100	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93	94	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103	104	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94	94	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	102	102	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	67	68	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	115	119	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93	95	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	91	93	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	87	90	75-120	4	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	103	103	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	99	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	67	68	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93	95	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	100	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	67	66	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93	93	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93	96	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69	87	22-131	23	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	85	86	58-120	0	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	99	99	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99	99	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	100	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	95	96	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	51	52	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	96	98	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	95	96	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	103	104	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	102	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	103	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95	95	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	93	94	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	103	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	95	96	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	83	87	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	84	86	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	93	94	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	105	106	61-126	1	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	73*	89	78-120	19	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	97	99	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	80	82	45-155	3	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	93	94	76-120	0	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	93	95	75-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	96	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69	70	61-134	1	30
Methylene Chloride	0.57	J	0.24	4.0	ug/kg	95	96	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	94	95	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	98	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	105	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	91	91	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	108	109	77-120	0	30
Toluene	0.19	J	0.08	4.0	ug/kg	97	99	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	93	94	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	85	89	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100	101	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	100	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	98	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	78	77	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	94	94	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93	94	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92	93	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	66	68	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100	99	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	90	91	80-120	1	30
Batch number: E110311AA	Sample number(s): 6191430									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	103		60-132		
Batch number: E110312AA	Sample number(s): 6191426-6191429									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	101	113	70-130	12	30
Batch number: Y110282AA	Sample number(s): 6191430									
Acetone	6	U	6.	20	ug/l	111	113	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	100	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	104	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	101	98	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	105	102	80-120	3	30
Bromoform	1	U	1.	5	ug/l	99	97	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	118	114	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	98	97	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	100	99	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	106	105	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	99	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	117	114	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	99	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	107	103	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	120	113	60-129	6	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	102	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	101	99	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	52	55	38-136	5	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	104	103	66-120	0	30
Dibromochloromethane	1	U	1.	5	ug/l	98	100	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	99	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	120	117	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	99	79-120	3	30

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1,2-Dichloroethane	1	U	1.	5	ug/l	115	112	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	92	80-120	9	30
1,2-Dichloropropane	1	U	1.	5	ug/l	97	95	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	112	106	77-124	6	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	101	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	97	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	103	99	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	116	114	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	82	83	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	97	97	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	96	97	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	104	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	104	99	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	95	93	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	104	103	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	98	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	98	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	96	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	100	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	101	101	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	99	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	110	106	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	101	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	103	99	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	122	116	64-129	6	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	106	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	103	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	97	97	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	97	80-120	1	30
Batch number: 11031SLA026	Sample number(s): 6191426,6191429									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	96		70-130		
Batch number: 11032SLA026	Sample number(s): 6191426-6191429									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	105		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	97		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	100		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	111		79-121		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		

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Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	100		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	121*		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	111		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	92		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	100		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	102		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	82		56-121		
Batch number: 11032SLD026	Sample number(s): 6191426-6191429									
Aniline	170 U		170.	500	ug/kg	65		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	49		15-121		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	29		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	63		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	90		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	90		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	95		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	68		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	92		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	J	17.	330	ug/kg	96		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	94		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Isophorone	17	U	17.	170	ug/kg	88		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	88		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	92		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		71-104		

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2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	82		51-117		
Phenol	17	U	17.	170	ug/kg	89		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11027A20A	Sample number(s): 6191430									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	81	75-135	21	30
Batch number: 11027A34A	Sample number(s): 6191426,6191429									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	73	67-119	1	30
Batch number: 110290006A	Sample number(s): 6191426,6191429									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	103		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	116	126	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	116	125	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	103		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
HMX	100	U	100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	102		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	102		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	100		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	99		80-120		
PETN	800	U	800.	2,400	ug/kg	93		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	102		80-120		
Batch number: 110270005A	Sample number(s): 6191426,6191429									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	96		80-126		
Batch number: 110310022A	Sample number(s): 6191426-6191429									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	57*	62*	75-125	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	116		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110340002A	Sample number(s): 6191426,6191429									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	83		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	87		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	68		66-113		
Batch number: 110310025A	Sample number(s): 6191426,6191429									
Ethanol	100	U	100.	500	ug/kg	100		75-112		
Isopropanol	100	U	100.	500	ug/kg	107		75-125		
Methanol	100	U	100.	500	ug/kg	100		75-134		
Batch number: 110320013A	Sample number(s): 6191426,6191429									
Diethylene glycol	9.0	U	9.0	13	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 110310002A	Sample number(s): 6191426,6191429									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
Batch number: 110271026001A	Sample number(s): 6191426-6191429									
Antimony	0.0600	U	0.0600	0.200	mg/kg	91		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	96		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	98		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0138	J	0.0104	0.200	mg/kg	107		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	99		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	96		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	96		78-122		
Batch number: 110271026001B	Sample number(s): 6191426-6191429									
Selenium	0.0400	U	0.0400	0.400	mg/kg	102		79-122		
Batch number: 110271026001C	Sample number(s): 6191426-6191429									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	103		78-122		
Batch number: 110271026001D	Sample number(s): 6191426-6191429									
Barium	0.108	U	0.108	0.400	mg/kg	101		79-121		
Batch number: 110275708001	Sample number(s): 6191426-6191429									
Aluminum	5.03	U	5.03	20.0	mg/kg	91		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	89		78-110		
Calcium	9.22	J	6.13	20.0	mg/kg	99		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	1.07	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		79-121		
Tin	1.43	J	1.00	10.0	mg/kg	97		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	93		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110275711001	Sample number(s): 6191426-6191429									
Mercury	0.0028	U	0.0028	0.0980	mg/kg	96		88-123		
Batch number: 11028102201A	Sample number(s): 6191426,6191429									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11032621201B	Sample number(s): 6191426-6191429									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11034243202A	Sample number(s): 6191426-6191429									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11038038201B	Sample number(s): 6191426-6191429									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11031039402A	Sample number(s): 6191426-6191429									
22a pH by 9045C						100		95-105		
Batch number: 11031182101A	Sample number(s): 6191426-6191429									
32a OR Potential						99		98-102		
Batch number: 11032162401B	Sample number(s): 6191427-6191428									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11039162401B	Sample number(s): 6191426,6191429									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110272AA	Sample number(s): 6191426-6191429 UNSPK: P190387								
Acetone	124		15-210						
Benzene	105		55-143						
Bromobenzene	99		43-139						
Bromochloromethane	117		60-137						
Bromodichloromethane	103		53-136						
Bromoform	114		38-124						
Bromomethane	60		42-168						
2-Butanone	101		37-163						
n-Butylbenzene	96		30-146						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
sec-Butylbenzene	95		33-157						
tert-Butylbenzene	91		41-152						
Carbon Tetrachloride	113		45-153						
Chlorobenzene	106		49-135						
Chloroethane	59		39-152						
2-Chloroethyl Vinyl Ether	87		32-139						
Chloroform	107		61-142						
Chloromethane	54		51-163						
2-Chlorotoluene	98		42-146						
4-Chlorotoluene	98		39-145						
1,2-Dibromo-3-chloropropane	85		30-139						
Dibromochloromethane	110		51-128						
1,2-Dibromoethane	106		54-129						
Dibromomethane	110		57-130						
1,2-Dichlorobenzene	104		36-133						
1,3-Dichlorobenzene	101		34-134						
1,4-Dichlorobenzene	102		35-136						
Dichlorodifluoromethane	47		26-151						
1,1-Dichloroethane	101		63-142						
1,2-Dichloroethane	104		68-131						
1,1-Dichloroethene	112		61-149						
cis-1,2-Dichloroethene	106		60-136						
trans-1,2-Dichloroethene	112		59-142						
1,2-Dichloropropane	99		62-135						
1,3-Dichloropropane	99		58-129						
2,2-Dichloropropane	106		53-147						
1,1-Dichloropropene	99		54-145						
cis-1,3-Dichloropropene	87		51-131						
trans-1,3-Dichloropropene	88		49-129						
Ethylbenzene	98		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	103		10-155						
2-Hexanone	69		32-160						
Isopropylbenzene	96		38-144						
p-Isopropyltoluene	96		29-152						
Methyl Tertiary Butyl Ether	96		55-129						
4-Methyl-2-pentanone	70		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	98		39-157						
Styrene	104		35-134						
1,1,1,2-Tetrachloroethane	112		52-130						
1,1,2,2-Tetrachloroethane	96		40-152						
Tetrachloroethene	115		42-149						
Toluene	104		50-146						
1,2,3-Trichlorobenzene	92		10-140						
1,2,4-Trichlorobenzene	82		10-136						
1,1,1-Trichloroethane	110		64-142						
1,1,2-Trichloroethane	109		54-139						
Trichloroethene	104		53-144						
Trichlorofluoromethane	79		47-163						
1,2,3-Trichloropropane	102		45-154						
1,2,4-Trimethylbenzene	95		37-149						
1,3,5-Trimethylbenzene	94		38-150						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Chloride	59		50-154						
m+p-Xylene	106		44-137						
o-Xylene	92		42-137						
Batch number: E110311AA	Sample number(s): 6191430 UNSPK: P192973								
1,4-Dioxane	125	99	50-150	15	30				
Batch number: 11031SLA026	Sample number(s): 6191426,6191429 UNSPK: P189701								
N-Nitrosodimethylamine	87	90	70-130	4	30				
Batch number: 11032SLA026	Sample number(s): 6191426-6191429 UNSPK: 6191426								
Acenaphthene	109*	107*	63-105	2	30				
Acenaphthylene	104	104	67-114	0	30				
Anthracene	105	105	60-122	0	30				
Benzo(a)anthracene	108	110	59-128	2	30				
Benzo(a)pyrene	102	102	45-138	0	30				
Benzo(b)fluoranthene	109	109	43-155	0	30				
Benzo(g,h,i)perylene	108	104	33-141	4	30				
Benzo(k)fluoranthene	103	104	42-144	1	30				
Butylbenzylphthalate	118	126	57-173	6	30				
Di-n-butylphthalate	117	122	65-148	4	30				
Chrysene	105	108	48-134	3	30				
Dibenz(a,h)anthracene	102	102	22-133	0	30				
Diethylphthalate	112	125	70-136	12	30				
Dimethylphthalate	115	113	74-118	1	30				
Fluoranthene	103	113	26-166	10	30				
Fluorene	108	108	66-122	0	30				
Indeno(1,2,3-cd)pyrene	102	101	21-143	0	30				
1-Methylnaphthalene	103	116	72-123	12	30				
2-Methylnaphthalene	98	107*	64-103	9	30				
Naphthalene	102	102	61-102	0	30				
N-Nitrosodimethylamine	118*	102	48-113	15	30				
Di-n-octylphthalate	111	112	40-192	1	30				
Phenanthrene	105	107	12-165	2	30				
Pyrene	99	103	15-153	4	30				
Batch number: 11032SLD026	Sample number(s): 6191426-6191429 UNSPK: P192756								
Aniline	81	82	35-95	1	30				
Benzidine	65	69	35-141	5	30				
Benzoic acid	68	58	10-173	15	30				
Benzyl alcohol	93	92	67-115	1	30				
4-Bromophenyl-phenylether	99	103	67-129	4	30				
Carbazole	93	95	64-120	2	30				
4-Chloro-3-methylphenol	91	90	76-110	1	30				
4-Chloroaniline	40	52	23-95	27	30				
bis(2-Chloroethoxy)methane	93	92	75-104	1	30				
bis(2-Chloroethyl)ether	91	93	60-116	2	30				
bis(2-Chloroisopropyl)ether	93	95	55-142	2	30				
2-Chloronaphthalene	74	94	50-141	23	30				
2-Chlorophenol	97	94	73-121	2	30				
4-Chlorophenyl-phenylether	95	95	80-109	0	30				
Dibenzofuran	96	94	71-112	1	30				
1,2-Dichlorobenzene	88	92	66-108	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dichlorobenzene	87	92	63-109	6	30				
1,4-Dichlorobenzene	88	92	70-100	4	30				
3,3'-Dichlorobenzidine	75	82	16-119	9	30				
2,4-Dichlorophenol	97	96	78-117	1	30				
2,4-Dimethylphenol	95	95	78-110	0	30				
3,5-Dimethylphenol	99	99	70-130	1	30				
4,6-Dinitro-2-methylphenol	78	75	24-116	4	30				
2,4-Dinitrophenol	61	53	20-143	14	30				
2,4-Dinitrotoluene	90	89	73-113	2	30				
2,6-Dinitrotoluene	92	92	69-123	0	30				
1,2-Diphenylhydrazine	102	102	71-129	0	30				
bis(2-Ethylhexyl)phthalate	100	103	63-122	3	30				
Hexachlorobenzene	100	101	77-114	1	30				
Hexachlorobutadiene	96	99	62-120	3	30				
Hexachlorocyclopentadiene	80	78	10-153	1	30				
Hexachloroethane	82	91	57-109	10	30				
Isophorone	93	93	73-102	0	30				
2-Methylphenol	94	94	75-111	0	30				
4-Methylphenol	99	98	71-111	1	30				
2-Nitroaniline	94	94	67-125	0	30				
3-Nitroaniline	91	88	59-122	3	30				
4-Nitroaniline	72	73	52-112	2	30				
Nitrobenzene	96	96	72-106	0	30				
2-Nitrophenol	95	92	74-115	3	30				
4-Nitrophenol	83	83	54-113	0	30				
N-Nitroso-di-n-propylamine	89	91	60-116	2	30				
N-Nitrosodiphenylamine	99	99	86-145	0	30				
Pentachlorophenol	81	80	28-127	1	30				
Phenol	96	96	58-126	1	30				
1,2,4-Trichlorobenzene	97	96	72-115	0	30				
2,4,5-Trichlorophenol	94	95	78-109	1	30				
2,4,6-Trichlorophenol	96	97	77-115	0	30				
Batch number: 110290006A	Sample number(s): 6191426,6191429 UNSPK: P189701								
4-Amino-2,6-Dinitrotoluene	101	103	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	101	102	80-137	1	50				
1,3-Dinitrobenzene	100	101	38-166	1	50				
2,4-Dinitrotoluene	97	98	80-131	1	50				
2,6-Dinitrotoluene	99	102	80-127	2	50				
HMX	93	96	63-128	2	50				
Nitrobenzene	98	99	80-125	1	50				
Nitroglycerin	88	90	80-120	2	50				
2-Nitrotoluene	98	101	80-122	3	50				
3-Nitrotoluene	96	97	72-119	2	50				
4-Nitrotoluene	95	96	80-125	1	50				
PETN	79*	81	80-121	3	50				
RDX	100	101	75-129	0	50				
Tetryl	88	90	55-174	2	50				
1,3,5-Trinitrobenzene	105	105	82-126	0	50				
2,4,6-Trinitrotoluene	96	98	82-130	1	50				
Batch number: 110270005A	Sample number(s): 6191426,6191429 UNSPK: P189701								
17a Formaldehyde by 8315A	102	100	80-120	2	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110310022A	Sample number(s): 6191426-6191429 UNSPK: 6191426								
PCB-1016	90	93	29-146	3	50				
PCB-1260	102	109	39-149	7	50				
Batch number: 110340002A	Sample number(s): 6191426,6191429 UNSPK: P190384								
EFH (C12-C14)	74	71	49-123	3	20				
EFH (C15-C20)	104	97	49-123	7	20				
EFH (C21-C30)	111	31*	49-123	40*	20				
EFH (C30 - C40)	98	2*	49-123	31*	20				
EFH (C8-C11)	61	54	49-123	13	20				
Batch number: 110310025A	Sample number(s): 6191426,6191429 UNSPK: P192761								
Ethanol	82	82	24-143	0	20				
Isopropanol	89	89	75-125	0	20				
Methanol	83	82	45-136	1	20				
Batch number: 110320013A	Sample number(s): 6191426,6191429 UNSPK: P190381								
Diethylene glycol	83	82	59-109	1	20				
Ethylene glycol	96	96	63-107	0	20				
Propylene glycol	91	88	63-107	3	20				
Batch number: 110310002A	Sample number(s): 6191426,6191429 UNSPK: P190381								
m-Terphenyl	95	90	75-125	5	20				
o-Terphenyl	97	92	75-125	5	20				
p-Terphenyl	83	80	75-125	4	20				
Batch number: 110271026001A	Sample number(s): 6191426-6191429 UNSPK: P190381 BKG: P190381								
Antimony	-187*	-189*	75-125	8	20	2.82	0.0992 J	186* (1)	20
Arsenic	-2970 (2)	-2914 (2)	75-125	9	20	63.4	4.12	176*	20
Beryllium	75	75	75-125	0	20	0.523	0.415	23* (1)	20
Cadmium	93	85	75-125	6	20	0.270	0.0896 J	100* (1)	20
Chromium	98	137*	75-125	15	20	13.7	14.0	2	20
Cobalt	87	90	75-125	4	20	5.88	4.41	29*	20
Copper	103	118	75-125	9	20	7.35	8.34	13	20
Lead	-44*	-23*	75-125	8	20	8.83	5.05	55*	20
Nickel	31*	36*	75-125	3	20	16.2	8.47	63*	20
Silver	100	99	75-125	0	20	0.0286 J	0.0318 J	11 (1)	20
Thallium	74*	79	75-125	4	20	0.291	0.223	26* (1)	20
Vanadium	-105 (2)	-82 (2)	75-125	6	20	46.8	27.0	53*	20
Zinc	90 (2)	126 (2)	75-125	5	20	59.8	61.0	2	20
Batch number: 110271026001B	Sample number(s): 6191426-6191429 UNSPK: P190381 BKG: P190381								
Selenium	78	77	75-125	1	20	0.427	0.0782 J	138* (1)	20
Batch number: 110271026001C	Sample number(s): 6191426-6191429 UNSPK: P190381 BKG: P190381								
Molybdenum	82	97	75-125	14	20	2.32	0.411	140* (1)	20
Batch number: 110271026001D	Sample number(s): 6191426-6191429 UNSPK: P190381 BKG: P190381								
Barium	110 (2)	161 (2)	75-125	6	20	79.6	83.7	5	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110275708001	Sample number(s): 6191426-6191429 UNSPK: P190381 BKG: P190381								
Aluminum	2012 (2)	2556 (2)	75-125	6	20	11,700	13,700	16	20
Boron	96	96	84-115	2	20	5.16	7.37	35* (1)	20
Calcium	558 (2)	84 (2)	75-125	18	20	9,370	12,300	27*	20
Iron	3112 (2)	4337 (2)	75-125	6	20	15,000	18,500	21*	20
Lithium	104	104	82-114	1	20	16.8	19.6	16	20
Magnesium	384 (2)	406 (2)	75-125	1	20	3,560	4,180	16	20
Manganese	152 (2)	148 (2)	75-125	1	20	215	249	15	20
Phosphorus	148*	111	75-125	9	20	295	347	16	20
Potassium	164*	88	75-125	20	20	2,520	3,230	24*	20
Sodium	106	105	75-125	1	20	321	342	7 (1)	20
Strontium	103	99	75-115	4	20	24.8	30.3	20	20
Tin	90	90	80-110	2	20	2.22 J	2.26 J	2 (1)	20
Titanium	351 (2)	362 (2)	75-125	1	20	902	1,120	22*	20
Zirconium	97	83	75-125	16	20	2.17 J	2.83 J	27* (1)	20
Batch number: 110275711001	Sample number(s): 6191426-6191429 UNSPK: P190381 BKG: P190381								
Mercury	102	98	65-135	4	20	0.0132 J	0.0241 J	58* (1)	20
Batch number: 11028102201A	Sample number(s): 6191426,6191429 UNSPK: P185954 BKG: P185954								
21a Cyanide by 9012B	100		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11032621201B	Sample number(s): 6191426-6191429 UNSPK: P186947 BKG: P186947								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11034243202A	Sample number(s): 6191426-6191429 UNSPK: P189213 BKG: P189213								
3a Cr VI by EPA 7199	101		75-125			0.35 J	0.59 J	52* (1)	20
Batch number: 11038038201B	Sample number(s): 6191426-6191429 UNSPK: P190391 BKG: P190391								
11a Anions by 300.0 - Fluoride	82		80-120			3.0	2.4	21* (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			1.6	1.3 J	20 (1)	20
Batch number: 11031039402A	Sample number(s): 6191426-6191429 BKG: 6191426								
22a pH by 9045C						6.60	6.63	0	1
Batch number: 11031182101A	Sample number(s): 6191426-6191429 BKG: 6191426								
32a OR Potential						513	511	0	6
Batch number: 11032162401B	Sample number(s): 6191427-6191428 BKG: 6191428								
28a Moisture Content by 160.3						11.3	11.5	2	20
Batch number: 11039162401B	Sample number(s): 6191426,6191429 BKG: 6191426								
28a Moisture Content by 160.3						12.6	12.8	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Surrogate Quality Control

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110272AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6191426	114	106	95	81
6191427	117	115	92	82
6191428	118	113	92	82
6191429	117	112	94	82
Blank	109	107	95	85
LCS	103	105	100	100
LCSD	102	105	100	100
MS	106	105	101	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110311AA

	Toluene-d8
6191430	97
Blank	97
LCS	97
MS	96
MSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110312AA

	Toluene-d8
6191426	96
6191427	95
6191428	95
6191429	95
Blank	96
LCS	96
LCSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110282AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6191430	104	105	99	98
Blank	104	102	100	98
LCS	104	101	101	101
LCSD	101	104	102	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C
Batch number: 11031SLA026

	N-Nitrosodimethylamine-d6

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Surrogate Quality Control

6191426	75
6191429	75
Blank	85
LCS	85
MS	70
MSD	71
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11032SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6191426	111	104	99
6191427	112	91	98
6191428	113	98	88
6191429	118	95	112
Blank	105	99	119
LCS	121	99	81
MS	121	101	98
MSD	130	103	102
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11032SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6191426	87	90	89	87	91	99
6191427	85	90	84	86	91	96
6191428	99	104	93	96	99	105
6191429	87	91	89	87	91	96
Blank	80	83	87	81	87	90
LCS	88	91	95	88	90	92
MS	92	96	90	91	95	98
MSD	91	95	90	91	94	99
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11027A20A

	Trifluorotoluene-F
6191430	90
Blank	88
LCS	121
LCSD	114
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11027A34A

	Trifluorotoluene-F
6191426	79
6191429	79

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Surrogate Quality Control

Blank	90
LCS	88
LCSD	86
Limits:	61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110270005A

	Butyraldehyde
6191426	105
6191429	105
Blank	99
LCS	110
MS	113
MSD	108
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110290006A

	2-Nitro-m-xylene
6191426	109
6191429	115
Blank	120
LCS	118
LCSD	107
MS	101
MSD	103
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110310022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6191426	87	104
6191427	83	103
6191428	91	111
6191429	86	102
Blank	94	116
LCS	99	117
LCSD	98	117
MS	95	108
MSD	94	112
Limits:	53-139	45-120

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110310002A

	n-Triacontane-d62
6191426	105
6191429	105
Blank	109
LCS	107

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230506
Reported: 02/11/11 at 11:58 AM

Surrogate Quality Control

MS	106	
MSD	102	
Limits:	50-150	

Analysis Name: 25a Alcohols by 8015B
Batch number: 110310025A

	Acetone
6191426	83
6191429	92
Blank	98
LCS	100
MS	83
MSD	82
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110320013A

	Tetramethylene glycol
6191426	53
6191429	56
Blank	96
LCS	102
MS	102
MSD	99
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110340002A

	Chlorobenzene	Orthoterphenyl
6191426	59	67
6191429	58	71
Blank	70	84
LCS	65	84
MS	63	82
MSD	66	78
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

A13013/1230506/6191426-30

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 1 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 82608 $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER		DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-148-SA5B-SB-4.5		1.25.11	1124	soil	NONE	5-Encore samplers									X	X	X											
SL-148-SA5B-SB-4.0-5.0		1.25.11	1129	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
[redacted]																												
SL-150-SA5B-SB-4.5		1.25.11	1512	soil	NONE	4-Encore samplers									X	X												
SL-150-SA5B-SB-4.0-5.0		1.25.11	1516	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
[redacted]																												
TB-012511		01.25.11	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											
Relinquished by: (Signature)		Date/Time 1/25/2011 / 17:00		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)		Date/Time 1/26/11 0950		Airbill No.(s) 869514321218																								No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/26/2011
Group Number: 1230507
SDG: DX044
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-148-SA5B-SB-4.0-5.0 Soil	6191431
SL-149-SA5B-SB-3.5-4.5 Soil	6191432
SL-150-SA5B-SB-4.0-5.0 Soil	6191433
SL-156-SA5B-SB-4.0-5.0 Soil	6191434

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-148-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191431
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4404 SDG#: DX044-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191431
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4404 SDG#: DX044-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00584 U	0.00584	1.14	1
11031	12378-PeCDD	40321-76-4	0.0207 JBQ	0.00675	5.72	1
11031	123478-HxCDD	39227-28-6	0.00755 U	0.00755	5.72	1
11031	123678-HxCDD	57653-85-7	0.0187 JBQ	0.00744	5.72	1
11031	123789-HxCDD	19408-74-3	0.0187 JBQ	0.00709	5.72	1
11031	1234678-HpCDD	35822-46-9	0.237 JB	0.0112	5.72	1
11031	OCDD	3268-87-9	1.02 JB	0.0104	11.4	1
11031	2378-TCDF	51207-31-9	0.00516 JB	0.00515	1.14	1
11031	12378-PeCDF	57117-41-6	0.0181 JBQ	0.00389	5.72	1
11031	23478-PeCDF	57117-31-4	0.0434 JBQ	0.00446	5.72	1
11031	123478-HxCDF	70648-26-9	0.0210 JBQ	0.00549	5.72	1
11031	123678-HxCDF	57117-44-9	0.0171 JBQ	0.00435	5.72	1
11031	123789-HxCDF	72918-21-9	0.0300 JB	0.00549	5.72	1
11031	234678-HxCDF	60851-34-5	0.0232 JBQ	0.00515	5.72	1
11031	1234678-HpCDF	67562-39-4	0.130 JBQ	0.0168	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0532 JBQ	0.0224	5.72	1
11031	OCDF	39001-02-0	0.246 JB	0.0145	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-148-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191431
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4404 SDG#: DX044-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5B-SB-4.0-5.0

LLI Sample # SW 6191431
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 11:29

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4404 SDG#: DX044-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/16/2011 17:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401B	02/08/2011 10:00	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191432
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4405 SDG#: DX044-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-149-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191432
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4405 SDG#: DX044-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0137 JBQ	0.00657	1.06	1
11031	12378-PeCDD	40321-76-4	0.0164 JBQ	0.00720	5.30	1
11031	123478-HxCDD	39227-28-6	0.00773 U	0.00773	5.30	1
11031	123678-HxCDD	57653-85-7	0.0328 JB	0.00773	5.30	1
11031	123789-HxCDD	19408-74-3	0.0522 JB	0.00689	5.30	1
11031	1234678-HpCDD	35822-46-9	0.165 JB	0.00837	5.30	1
11031	OCDD	3268-87-9	0.738 JB	0.0135	10.6	1
11031	2378-TCDF	51207-31-9	0.00551 U	0.00551	1.06	1
11031	12378-PeCDF	57117-41-6	0.0213 JBQ	0.00381	5.30	1
11031	23478-PeCDF	57117-31-4	0.0403 JB	0.00424	5.30	1
11031	123478-HxCDF	70648-26-9	0.0223 JBQ	0.00794	5.30	1
11031	123678-HxCDF	57117-44-9	0.0297 JBQ	0.00561	5.30	1
11031	123789-HxCDF	72918-21-9	0.0318 JBQ	0.00572	5.30	1
11031	234678-HxCDF	60851-34-5	0.0251 JBQ	0.00487	5.30	1
11031	1234678-HpCDF	67562-39-4	0.104 JBQ	0.0163	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0607 JBQ	0.0196	5.30	1
11031	OCDF	39001-02-0	0.199 JB	0.0153	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191432
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4405 SDG#: DX044-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5B-SB-3.5-4.5

LLI Sample # SW 6191432
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 14:04

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4405 SDG#: DX044-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/16/2011 18:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401B	02/01/2011 11:26	William C Schwebel	1

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Analysis Report

Sample Description: **SL-150-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191433
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4406 SDG#: DX044-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-150-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191433
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4406 SDG#: DX044-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.00884	JBQ	0.00643	1.13	1
11031	12378-PeCDD	40321-76-4	0.0385	JBQ	0.00744	5.64	1
11031	123478-HxCDD	39227-28-6	0.0238	JBQ	0.00868	5.64	1
11031	123678-HxCDD	57653-85-7	0.0355	JBQ	0.00834	5.64	1
11031	123789-HxCDD	19408-74-3	0.0560	JBQ	0.00744	5.64	1
11031	1234678-HpCDD	35822-46-9	0.319	JB	0.0125	5.64	1
11031	OCDD	3268-87-9	2.37	JB	0.0108	11.3	1
11031	2378-TCDF	51207-31-9	0.0229	JBQ	0.00507	1.13	1
11031	12378-PeCDF	57117-41-6	0.0581	JB	0.00406	5.64	1
11031	23478-PeCDF	57117-31-4	0.0711	JB	0.00462	5.64	1
11031	123478-HxCDF	70648-26-9	0.0484	JB	0.00913	5.64	1
11031	123678-HxCDF	57117-44-9	0.0418	JBQ	0.00654	5.64	1
11031	123789-HxCDF	72918-21-9	0.0547	JB	0.00654	5.64	1
11031	234678-HxCDF	60851-34-5	0.0320	JBQ	0.00575	5.64	1
11031	1234678-HpCDF	67562-39-4	0.171	JBQ	0.0221	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0660	JBQ	0.0272	5.64	1
11031	OCDF	39001-02-0	0.326	JB	0.0207	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-150-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191433
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4406 SDG#: DX044-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-150-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5B-SB-4.0-5.0

LLI Sample # SW 6191433
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 15:16

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4406 SDG#: DX044-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/16/2011 19:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11032162401B	02/01/2011 11:26	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191434
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4407 SDG#: DX044-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-156-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191434
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4407 SDG#: DX044-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0276 JB	0.00646	1.13	1
11031	12378-PeCDD	40321-76-4	0.0843 JB	0.00781	5.66	1
11031	123478-HxCDD	39227-28-6	0.0452 JBQ	0.00985	5.66	1
11031	123678-HxCDD	57653-85-7	0.0628 JBQ	0.00963	5.66	1
11031	123789-HxCDD	19408-74-3	0.0848 JB	0.00929	5.66	1
11031	1234678-HpCDD	35822-46-9	0.228 JB	0.0109	5.66	1
11031	OCDD	3268-87-9	1.05 JB	0.0142	11.3	1
11031	2378-TCDF	51207-31-9	0.0278 JB	0.00600	1.13	1
11031	12378-PeCDF	57117-41-6	0.121 JB	0.00521	5.66	1
11031	23478-PeCDF	57117-31-4	0.123 JBQ	0.00555	5.66	1
11031	123478-HxCDF	70648-26-9	0.115 JB	0.0180	5.66	1
11031	123678-HxCDF	57117-44-9	0.0852 JBQ	0.0118	5.66	1
11031	123789-HxCDF	72918-21-9	0.0752 JB	0.0112	5.66	1
11031	234678-HxCDF	60851-34-5	0.102 JB	0.0102	5.66	1
11031	1234678-HpCDF	67562-39-4	0.345 JBQ	0.0214	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0521 JB	0.0237	5.66	1
11031	OCDF	39001-02-0	0.254 JB	0.0137	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-156-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191434
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4407 SDG#: DX044-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5B-SB-4.0-5.0

LLI Sample # SW 6191434
LLI Group # 1230507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/25/2011 09:27

Submitted: 01/26/2011 09:50
Reported: 02/27/2011 22:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4407 SDG#: DX044-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/16/2011 20:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162401B	02/08/2011 10:00	William C Schwebel	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230507
Reported: 02/27/11 at 10:07 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11032162401B	Sample number(s): 6191432-6191433								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11039162401B	Sample number(s): 6191431,6191434								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11035001	Sample number(s): 6191431-6191434								
2378-TCDD	0.0165 J	0.00520	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0235 J	0.00550	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0267 J	0.00720	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0315 J	0.00730	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0362 J	0.00700	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.217 J	0.00960	5.00	ng/kg	99		70-140		
OCDD	0.572 J	0.0113	10.0	ng/kg	99		78-144		
2378-TCDF	0.0175 J	0.00520	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0337 J	0.00390	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0768 J	0.00390	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0657 J	0.00960	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0499 J	0.00800	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0654 J	0.00960	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0694 J	0.00830	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.231 J	0.00730	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0469 J	0.0102	5.00	ng/kg	99		78-138		
OCDF	0.291 J	0.0113	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11032162401B	Sample number(s): 6191432-6191433					BKG: P191428			
28a Moisture Content by 160.3						11.3	11.5	2	20
Batch number: 11039162401B	Sample number(s): 6191431,6191434					BKG: P191426			
28a Moisture Content by 160.3						12.6	12.8	2	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230507
Reported: 02/27/11 at 10:07 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11035001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6191431	77	69	60	74	65	63
6191432	68	62	41	56	63	58
6191433	73	72	45	62	73	68
6191434	71	67	38	55	68	63
Blank	85	79	77	90	83	83
OPR	74	69	54	73	68	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6191431	76	63	57	88	81	75
6191432	62	58	51	79	71	64
6191433	64	61	54	85	77	68
6191434	58	59	54	84	71	67
Blank	92	77	71	103	88	88
OPR	73	59	55	91	77	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6191431	76	77	80	73	65	81
6191432	68	71	72	67	59	72
6191433	70	75	74	70	69	83
6191434	71	72	72	68	64	74
Blank	90	90	91	84	76	88
OPR	76	76	75	70	65	80
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

A13013/1230507/6191431-34

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*PerchlorateEPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-148-SA5B-SB-4.5	1.25.11	1124	soil	NONE	5-Encore samplers									X	X	X											
SL-148-SA5B-SB-4.0-5.0	1.25.11	1129	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SL-150-SA5B-SB-4.5	1.25.11	1512	soil	NONE	4-Encore samplers									X	X												
SL-150-SA5B-SB-4.0-5.0	1.25.11	1516	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TB-012511	01.25.11	1630	WATER	HCl	4-40 mL VOA VIALS									X	X	X											

Relinquished by: (Signature)* — Date/Time: 1/25/2011 / 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 1/26/11 0950 — Airbill No.(s): 869514321218

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/27/2011
Group Number: 1230697
SDG: DE069
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA5B-SB-4.0-5.0 Soil	6192756
SL-016-SA5B-SB-4.0-5.0 Soil	6192757
SL-016-SA5B-SB-9.0-10.0 Soil	6192758
SL-018-SA5B-SB-4.0-5.0 Soil	6192759
SL-018-SA5B-SB-9.0-10.0 Soil	6192760
SL-180-SA5B-SB-4.0-5.0 Soil	6192761
SL-180-SA5B-SB-9.0-10.0 Soil	6192762
SL-262-SA5B-SB-4.0-5.0 Soil	6192763
SL-263-SA5B-SB-2.0-3.0 Soil	6192764
EB26-SA5B-012611 Water	6192765
TB-012611 Water	6192766

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE069-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.9
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.9
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.9
06192	Methylene Chloride	75-09-2	0.49	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE069-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.78
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	259		96.8	194		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1

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Sample Description: SL-015-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE069-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.56	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	8.2		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	12		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	19		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	4.5		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	8.7		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	12		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	4.6		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: **SL-015-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE069-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.90	J	0.77	1.9		1
10138	Pyrene	129-00-0	9.3		0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
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Project Name: SSFL Area IV Collocated Soil Sampling

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E6901 SDG#: DE069-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.91	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.47	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.58	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	18		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	38		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.1	U	8.1	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.
Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1

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Sample Description: **SL-015-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE069-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.67	22.6		1
07914	Boron	7440-42-8	2.99	J	1.00	5.64		1
01650	Calcium	7440-70-2	5,530		6.91	22.6		1
01654	Iron	7439-89-6	18,800		5.31	22.6		1
01656	Lithium	7439-93-2	19.5		0.25	2.3		1
01657	Magnesium	7439-95-4	3,920		2.86	11.3		1
06958	Manganese	7439-96-5	234		0.0880	0.564		1
10145	Phosphorus	7723-14-0	366		0.631	11.3		1
01662	Potassium	7440-09-7	2,820		20.3	56.4		1
01667	Sodium	7440-23-5	365		42.1	113		1
07968	Strontium	7440-24-6	24.5		0.0699	0.564		1
06969	Tin	7440-31-5	2.58	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,270		0.441	1.16		1
10146	Zirconium	7440-67-7	2.53	J	0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0670	U	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.19		0.0893	0.447		2
06126	Barium	7440-39-3	76.6		0.121	0.447		2
06127	Beryllium	7440-41-7	0.490		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.175		0.0447	0.112		2
06131	Chromium	7440-47-3	16.0		0.134	0.447		2
06132	Cobalt	7440-48-4	4.59		0.0223	0.112		2
06133	Copper	7440-50-8	7.97		0.0737	0.447		2
06135	Lead	7439-92-1	5.04		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.531		0.0558	0.112		2
06139	Nickel	7440-02-0	9.57		0.112	0.447		2
06141	Selenium	7782-49-2	0.283	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0311	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.241		0.0335	0.112		2
06148	Vanadium	7440-62-2	31.9		0.0246	0.112		2
06149	Zinc	7440-66-6	64.8		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0128	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-015-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

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14420 Albemarle Point Place
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E6901 SDG#: DE069-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	471		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-015-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011 17:14	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	01/31/2011 23:33	Sara E Johnson	19.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:12	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011 18:01	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011 18:01	Christopher M Klumpp	n.a.

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Sample Description: **SL-015-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE069-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011 17:11	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011 13:34	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/04/2011 23:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 02:14	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 16:50	Marie D John	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:07	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 05:17	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 20:01	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 03:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 05:29	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 01:27	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 22:50	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 13:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
07914	Boron	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/07/2011 23:28	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192756
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE069-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 21:34	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 11:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/08/2011 11:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 11:10	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 15:35	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026003A	02/08/2011 11:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/10/2011 14:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201A	02/10/2011 14:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202A	02/08/2011 10:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 12:17	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:00	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202A	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192757
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE069-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.48	U	0.48	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	0.58	J	0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Sample Description: SL-016-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192757
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE069-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.29
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	207		19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-016-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192757
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6902 SDG#: DE069-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.97	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.82	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	19	J	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-016-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192757
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE069-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192757
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6902 SDG#: DE069-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	3,600		690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.90	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.95	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	18		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	120	J	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.0	U	8.0	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.
Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-016-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192757
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE069-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,500		5.64	22.4		1
07914	Boron	7440-42-8	2.22	J	0.997	5.60		1
01650	Calcium	7440-70-2	7,290		6.87	22.4		1
01654	Iron	7439-89-6	32,900		26.4	112		5
01656	Lithium	7439-93-2	31.1		0.25	2.2		1
01657	Magnesium	7439-95-4	6,320		2.85	11.2		1
06958	Manganese	7439-96-5	448		0.0874	0.560		1
10145	Phosphorus	7723-14-0	746		0.627	11.2		1
01662	Potassium	7440-09-7	3,660		20.2	56.0		1
01667	Sodium	7440-23-5	607		41.8	112		1
07968	Strontium	7440-24-6	41.2		0.0695	0.560		1
06969	Tin	7440-31-5	3.04	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,260		0.426	1.12		1
10146	Zirconium	7440-67-7	1.57	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0686	U	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.68		0.0914	0.457		2
06126	Barium	7440-39-3	127		0.123	0.457		2
06127	Beryllium	7440-41-7	0.589		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.191		0.0457	0.114		2
06131	Chromium	7440-47-3	22.4		0.137	0.457		2
06132	Cobalt	7440-48-4	7.62		0.0229	0.114		2
06133	Copper	7440-50-8	9.79		0.0754	0.457		2
06135	Lead	7439-92-1	6.29		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.564		0.0571	0.114		2
06139	Nickel	7440-02-0	11.9		0.114	0.457		2
06141	Selenium	7782-49-2	0.491		0.0457	0.457		2
06142	Silver	7440-22-4	0.0324	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.296		0.0343	0.114		2
06148	Vanadium	7440-62-2	52.0		0.0251	0.114		2
06149	Zinc	7440-66-6	68.1		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0239	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.1		1

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Sample Description: SL-016-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192757
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE069-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.55		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.77		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-016-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011	17:37	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	01/31/2011	23:53	Sara E Johnson	21.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011	17:17	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011	18:01	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011	18:01	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011	17:16	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	12:44	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011	02:00	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011	02:46	Gregory J Drahovsky	1

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Sample Description: SL-016-SA5B-SB-4.0-5.0 Soil
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E6902 SDG#: DE069-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 17:27	Marie D John	19.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:14	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 07:24	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110360004A	02/07/2011 19:08	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 03:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	110360004A	02/06/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 04:40	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 01:41	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/02/2011 23:07	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 10:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
07914	Boron	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/03/2011 12:27	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/07/2011 23:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 21:45	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 11:14	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-016-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192757
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE069-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/09/2011 14:21	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 11:14	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 14:21	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026003A	02/08/2011 11:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/10/2011 15:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201A	02/10/2011 15:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202A	02/08/2011 11:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 12:29	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:03	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202A	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE069-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.2		6.4	7.7		0.87
06192	Benzene	71-43-2	0.1	J	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.87
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.87
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.87
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.7		0.87
06192	Methylene Chloride	75-09-2	0.42	J	0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE069-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.08	J	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		20.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	368		92.0	184		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE069-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	19	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
phenol

The surrogate recovery of phenol-d6 was above QC limits. The analysis was repeated, and the surrogate recovery of phenol-d6 was within QC limits. However, the recovery of 2,4,6-tribromophenol was below QC limits. Comparable data was observed between the two extractions.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	J	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	2.3		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.3		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.9		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE069-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.8		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	7.6		0.74	1.8		1
10138	Fluorene	86-73-7	1.4	J	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.75	J	0.74	1.8		1
10138	Naphthalene	91-20-3	0.78	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	9.3		0.74	1.8		1
10138	Pyrene	129-00-0	6.1		0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1

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Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE069-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	4,700		660	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.89	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	3.0	J	2.2	6.6		5
10199	EFH (C21-C30)	n.a.	41		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	73		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	240	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	11	U	11	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was injected numerous times. Each time the responses for various

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Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE069-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls		**SW-846 8015B**	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals		**SW-846 6010B**	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,900		5.55	22.1		1
07914	Boron	7440-42-8	2.82	J	0.982	5.52		1
01650	Calcium	7440-70-2	8,010		6.77	22.1		1
01654	Iron	7439-89-6	21,500		5.20	22.1		1
01656	Lithium	7439-93-2	21.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,380		2.80	11.0		1
06958	Manganese	7439-96-5	280		0.0861	0.552		1
10145	Phosphorus	7723-14-0	392		0.618	11.0		1
01662	Potassium	7440-09-7	2,990		19.9	55.2		1
01667	Sodium	7440-23-5	450		41.2	110		1
07968	Strontium	7440-24-6	30.4		0.0684	0.552		1
06969	Tin	7440-31-5	2.58	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,220		0.415	1.09		1
10146	Zirconium	7440-67-7	2.62	J	0.927	5.52		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0643	U	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.97		0.0857	0.429		2
06126	Barium	7440-39-3	85.1		0.116	0.429		2
06127	Beryllium	7440-41-7	0.477		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.155		0.0429	0.107		2
06131	Chromium	7440-47-3	16.3		0.129	0.429		2
06132	Cobalt	7440-48-4	4.60		0.0214	0.107		2
06133	Copper	7440-50-8	7.75		0.0707	0.429		2
06135	Lead	7439-92-1	7.29		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.611		0.0536	0.107		2
06139	Nickel	7440-02-0	9.66		0.107	0.429		2
06141	Selenium	7782-49-2	0.138	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0487	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.230		0.0321	0.107		2
06148	Vanadium	7440-62-2	35.0		0.0589	0.268		5
06149	Zinc	7440-66-6	381		1.50	8.04		5
		SW-846 7471A	mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6903 SDG#: DE069-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0117	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	J	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	330		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	10.4		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-016-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011 17:59	Chelsea B Eastep	0.87

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Sample Description: **SL-016-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E6903 SDG#: DE069-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011 00:13	Sara E Johnson	20.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:22	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011 18:01	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011 18:01	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011 17:21	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011 13:51	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 05:44	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 03:17	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	2	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 18:03	Marie D John	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:18	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 08:07	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 20:48	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 03:39	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 19:11	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 01:56	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/03/2011 00:00	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 15:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
07914	Boron	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1

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Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6903 SDG#: DE069-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/07/2011 23:56	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 21:50	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 11:23	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/08/2011 11:23	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 11:23	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 11:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 14:23	David K Beck	5
06149	Zinc	SW-846 6020	1	110271026003A	02/09/2011 14:23	David K Beck	5
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/10/2011 15:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201A	02/10/2011 15:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202A	02/08/2011 11:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 12:42	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:05	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202A	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-016-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192758
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE069-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.88
06192	Methylene Chloride	75-09-2	0.45	J	0.24	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

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Sample Description: SL-018-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
	The GC/MS volatile internal standard peak areas were outside the QC limits. A re-analysis was performed, and the matrix effect was confirmed.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	92.9		19.3	38.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-018-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	15	J	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.59
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-018-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	1,400	U	1,400	3,500		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	1.2	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.82	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	5.4		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	17		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	10	U	10	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.78	23.0		1
07914	Boron	7440-42-8	4.02	J	1.02	5.74		1
01650	Calcium	7440-70-2	2,750		7.04	23.0		1
01654	Iron	7439-89-6	19,500		5.41	23.0		1
01656	Lithium	7439-93-2	23.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,000		2.92	11.5		1
06958	Manganese	7439-96-5	416		0.0896	0.574		1
10145	Phosphorus	7723-14-0	526		0.643	11.5		1
01662	Potassium	7440-09-7	3,830		20.7	57.4		1
01667	Sodium	7440-23-5	144		42.8	115		1
07968	Strontium	7440-24-6	20.5		0.0712	0.574		1
06969	Tin	7440-31-5	2.43	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,270		0.436	1.15		1
10146	Zirconium	7440-67-7	2.66	J	0.965	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0711	J	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.98		0.0919	0.459		2
06126	Barium	7440-39-3	99.4		0.124	0.459		2
06127	Beryllium	7440-41-7	0.584		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.206		0.0459	0.115		2
06131	Chromium	7440-47-3	15.6		0.138	0.459		2
06132	Cobalt	7440-48-4	5.16		0.0230	0.115		2
06133	Copper	7440-50-8	8.48		0.0758	0.459		2
06135	Lead	7439-92-1	8.72		0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.578		0.0574	0.115		2
06139	Nickel	7440-02-0	11.2		0.115	0.459		2
06141	Selenium	7782-49-2	0.176	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0305	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.265		0.0345	0.115		2
06148	Vanadium	7440-62-2	28.8		0.0253	0.115		2
06149	Zinc	7440-66-6	62.3		0.643	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0042	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.93	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.5		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	452		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-018-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011 18:22	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011 00:32	Sara E Johnson	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:27	Christopher M Klumpp	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011 18:01	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011 18:01	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011 17:26	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011 14:08	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 02:50	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 03:49	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 18:39	Marie D John	20.59
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:24	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 08:49	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 20:58	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 03:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 01:45	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 02:11	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/03/2011 00:17	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 11:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
07914	Boron	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192759
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE069-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/08/2011 00:00	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 21:11	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 10:52	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/08/2011 10:52	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 10:52	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 15:24	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026003A	02/08/2011 10:52	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/10/2011 16:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201A	02/10/2011 16:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202A	02/08/2011 12:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11039243201A	02/10/2011 13:00	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:06	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202A	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE069-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	17		7.5	9.0		1
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		1
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		1
06192	Methylene Chloride	75-09-2	0.73	J	0.27	4.5		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1

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Sample Description: **SL-018-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE069-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		1
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		1
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.81
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	114		18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

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Sample Description: SL-018-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE069-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-018-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE069-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
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Project Name: SSFL Area IV Collocated Soil Sampling

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E6905 SDG#: DE069-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	1,400	J	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.54	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.93	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	130	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	9.0	U	9.0	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-018-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

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E6905 SDG#: DE069-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.48	21.8		1
07914	Boron	7440-42-8	0.970	U	0.970	5.45		1
01650	Calcium	7440-70-2	3,570		6.68	21.8		1
01654	Iron	7439-89-6	32,800		25.7	109		5
01656	Lithium	7439-93-2	30.3		0.24	2.2		1
01657	Magnesium	7439-95-4	6,060		2.77	10.9		1
06958	Manganese	7439-96-5	234		0.0850	0.545		1
10145	Phosphorus	7723-14-0	578		0.610	10.9		1
01662	Potassium	7440-09-7	3,900		19.6	54.5		1
01667	Sodium	7440-23-5	352		40.6	109		1
07968	Strontium	7440-24-6	22.9		0.0676	0.545		1
06969	Tin	7440-31-5	3.45	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,490		0.414	1.09		1
10146	Zirconium	7440-67-7	0.915	U	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0667	U	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.23		0.0889	0.444		2
06126	Barium	7440-39-3	123		0.120	0.444		2
06127	Beryllium	7440-41-7	0.850		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0773	J	0.0444	0.111		2
06131	Chromium	7440-47-3	14.4		0.133	0.444		2
06132	Cobalt	7440-48-4	4.73		0.0222	0.111		2
06133	Copper	7440-50-8	9.31		0.0733	0.444		2
06135	Lead	7439-92-1	8.97		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.377		0.0556	0.111		2
06139	Nickel	7440-02-0	7.95		0.111	0.444		2
06141	Selenium	7782-49-2	0.226	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0429	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.387		0.0333	0.111		2
06148	Vanadium	7440-62-2	29.6		0.0244	0.111		2
06149	Zinc	7440-66-6	104		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.7		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.90	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-018-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE069-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	465		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-018-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011 18:45	Chelsea B Eastep	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011 00:52	Sara E Johnson	23.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011 18:01	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011 18:01	Christopher M Klumpp	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: SL-018-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE069-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011 17:31	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011 14:25	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 03:15	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 04:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 19:16	Marie D John	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:29	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 09:31	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 21:07	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110310001A	02/03/2011 14:42	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 05:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110310001A	01/31/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 00:06	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 02:25	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/03/2011 00:35	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 04:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
07914	Boron	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/03/2011 12:30	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192760
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE069-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/08/2011 00:04	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 21:54	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 11:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/08/2011 11:26	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 11:26	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 15:37	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026003A	02/08/2011 11:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/10/2011 16:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201A	02/10/2011 16:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202A	02/08/2011 13:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 13:06	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:07	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202A	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101A	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402A	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-180-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.88
06192	Methylene Chloride	75-09-2	0.31	J	0.24	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-180-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		22.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	250		19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-180-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	18	J	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-180-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-180-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.3	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	5.6		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	9.2	U	9.2	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-180-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.54	22.0		1
07914	Boron	7440-42-8	1.33	J	0.980	5.51		1
01650	Calcium	7440-70-2	2,870		6.75	22.0		1
01654	Iron	7439-89-6	24,800		5.19	22.0		1
01656	Lithium	7439-93-2	24.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,070		2.80	11.0		1
06958	Manganese	7439-96-5	242		0.0859	0.551		1
10145	Phosphorus	7723-14-0	167		0.617	11.0		1
01662	Potassium	7440-09-7	1,830		19.8	55.1		1
01667	Sodium	7440-23-5	290		41.1	110		1
07968	Strontium	7440-24-6	26.0		0.0683	0.551		1
06969	Tin	7440-31-5	2.75	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,290		0.423	1.11		1
10146	Zirconium	7440-67-7	2.35	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0674	U	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.30		0.0898	0.449		2
06126	Barium	7440-39-3	115		0.121	0.449		2
06127	Beryllium	7440-41-7	0.771		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0822	J	0.0449	0.112		2
06131	Chromium	7440-47-3	22.1		0.135	0.449		2
06132	Cobalt	7440-48-4	7.01		0.0225	0.112		2
06133	Copper	7440-50-8	8.59		0.0741	0.449		2
06135	Lead	7439-92-1	6.59		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.411		0.0562	0.112		2
06139	Nickel	7440-02-0	13.3		0.112	0.449		2
06141	Selenium	7782-49-2	0.118	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0391	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.275		0.0337	0.112		2
06148	Vanadium	7440-62-2	40.6		0.0247	0.112		2
06149	Zinc	7440-66-6	44.8		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.1		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.23	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-180-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	350		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-180-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011 19:07	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011 01:11	Sara E Johnson	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:38	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011 18:00	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011 18:00	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011 17:37	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011 14:42	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 03:40	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 04:53	Gregory J Drahovsky	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-180-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 19:52	Marie D John	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:34	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 10:14	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 21:17	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 05:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 02:10	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 02:55	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/03/2011 00:52	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 12:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
07914	Boron	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/08/2011 00:15	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 21:58	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 11:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2

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Sample Description: **SL-180-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192761
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE069-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/08/2011 11:29	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 11:29	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 15:39	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026003A	02/08/2011 11:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/10/2011 17:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201A	02/10/2011 17:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202A	02/08/2011 13:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 13:19	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:08	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202A	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-180-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192762
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE069-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.98
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.98
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.98
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.98
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.98
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.98
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.98
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.98
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.98
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.98
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.98
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.98
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.98
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.98
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.98
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.98
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.98
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.98
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.98
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.98
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.98
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.98
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.98
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.98
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.98
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.98
06192	Methylene Chloride	75-09-2	0.56	J	0.27	4.5		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.98

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Sample Description: SL-180-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192762
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE069-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.98
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.98
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.98
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.98
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.77
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	203		19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-180-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192762
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE069-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-180-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192762
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE069-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.65
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192762
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14420 Albemarle Point Place
Suite 210
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E6907 SDG#: DE069-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.0	U	8.0	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: **SL-180-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192762
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE069-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,500		28.6	114		5
07914	Boron	7440-42-8	5.05	U	5.05	28.4		5
	Reporting limits were raised due to interference from the sample matrix.							
01650	Calcium	7440-70-2	23,600		6.96	22.7		1
01654	Iron	7439-89-6	47,200		26.7	114		5
01656	Lithium	7439-93-2	53.9		0.25	2.3		1
01657	Magnesium	7439-95-4	9,520		2.88	11.4		1
06958	Manganese	7439-96-5	313		0.0886	0.568		1
10145	Phosphorus	7723-14-0	472		3.18	56.8		5
01662	Potassium	7440-09-7	2,290		102	284		5
01667	Sodium	7440-23-5	280		42.4	114		1
07968	Strontium	7440-24-6	70.9		0.0704	0.568		1
06969	Tin	7440-31-5	3.33	J	1.14	11.4		1
06970	Titanium	7440-32-6	2,010		0.863	2.27		2
10146	Zirconium	7440-67-7	2.44	J	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0668	U	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.1		0.0891	0.445		2
06126	Barium	7440-39-3	139		0.120	0.445		2
06127	Beryllium	7440-41-7	1.17		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.239		0.0445	0.111		2
06131	Chromium	7440-47-3	39.4		0.134	0.445		2
06132	Cobalt	7440-48-4	8.54		0.0223	0.111		2
06133	Copper	7440-50-8	21.1		0.0735	0.445		2
06135	Lead	7439-92-1	12.4		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.287		0.0557	0.111		2
06139	Nickel	7440-02-0	26.7		0.111	0.445		2
06141	Selenium	7782-49-2	0.181	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.228		0.0134	0.111		2
06145	Thallium	7440-28-0	0.491		0.0334	0.111		2
06148	Vanadium	7440-62-2	54.5		0.0245	0.111		2
06149	Zinc	7440-66-6	92.3		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0265	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-180-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192762
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE069-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	406		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-180-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011	19:30	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011	01:31	Sara E Johnson	22.77
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011	17:46	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011	18:00	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011	18:00	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011	17:45	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	14:59	Timothy J Trees	1

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SL-180-SA5B-SB-9.0-10.0

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E6907 SDG#: DE069-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 04:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 05:25	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 20:29	Marie D John	24.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:43	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 10:56	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 21:26	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 06:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 00:31	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 03:39	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110320013A	02/03/2011 01:11	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110310002A	02/01/2011 05:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110310002A	01/31/2011 14:00	Kelli M Barto	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110320013A	02/01/2011 11:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/03/2011 12:34	Joanne M Gates	5
07914	Boron	SW-846 6010B	1	110275708003	02/03/2011 12:34	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 22:02	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/03/2011 12:34	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 22:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 22:02	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 22:02	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/03/2011 12:34	Joanne M Gates	5
01662	Potassium	SW-846 6010B	1	110275708003	02/03/2011 12:34	Joanne M Gates	5
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 22:02	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 22:02	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 22:02	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/08/2011 07:52	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 22:02	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-180-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192762
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE069-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 11:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/08/2011 11:33	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 11:33	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 15:41	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026003A	02/08/2011 11:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/10/2011 17:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201A	02/10/2011 17:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202A	02/08/2011 13:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 13:32	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:12	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202A	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-262-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192763
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE069-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.9	U	7.9	9.5		1.04
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.04
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7		1.04
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.04
06192	Bromomethane	74-83-9	0.30	U	0.30	4.7		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.5		1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.04
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.04
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.7		1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.7		1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.04
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7		1.04
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.7		1.04
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.7		1.04
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.83	U	0.83	4.7		1.04
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.7		1.04
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.04
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.04
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.04
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.04
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.04
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7		1.04
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7		1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.04
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9		1.04
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.7		1.04
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.5		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.5		1.04
06192	Methylene Chloride	75-09-2	0.76	J	0.28	4.7		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.04

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Sample Description: SL-262-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192763
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE069-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.04
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.7		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.7		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.7		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.7		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7		1.04
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.04
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.04
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.7		1.04
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7		1.04
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		25.25
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-262-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192763
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE069-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-262-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192763
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE069-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.87	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.74	22.8		1
07914	Boron	7440-42-8	1.02	U	1.02	5.71		1
01650	Calcium	7440-70-2	2,170		7.00	22.8		1
01654	Iron	7439-89-6	29,800		26.9	114		5
01656	Lithium	7439-93-2	31.6		0.25	2.3		1
01657	Magnesium	7439-95-4	6,140		2.90	11.4		1
06958	Manganese	7439-96-5	176		0.0890	0.571		1
10145	Phosphorus	7723-14-0	194		0.639	11.4		1
01662	Potassium	7440-09-7	2,570		20.5	57.1		1
01667	Sodium	7440-23-5	1,430		42.6	114		1
07968	Strontium	7440-24-6	22.8		0.0708	0.571		1
06969	Tin	7440-31-5	3.08	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,620		0.425	1.12		1
10146	Zirconium	7440-67-7	2.37	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0685	U	0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.79		0.0913	0.457		2
06126	Barium	7440-39-3	51.4		0.123	0.457		2
06127	Beryllium	7440-41-7	0.920		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0457	U	0.0457	0.114		2
06131	Chromium	7440-47-3	31.3		0.137	0.457		2
06132	Cobalt	7440-48-4	4.61		0.0228	0.114		2
06133	Copper	7440-50-8	11.7		0.0753	0.457		2
06135	Lead	7439-92-1	9.71		0.0119	0.228		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-262-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192763
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE069-08

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum		7439-98-7	1.11		0.0571	0.114		2
06139	Nickel		7440-02-0	14.9		0.114	0.457		2
06141	Selenium		7782-49-2	0.403	J	0.0457	0.457		2
06142	Silver		7440-22-4	0.0300	J	0.0137	0.114		2
06145	Thallium		7440-28-0	0.298		0.0342	0.114		2
06148	Vanadium		7440-62-2	55.3		0.0251	0.114		2
06149	Zinc		7440-66-6	57.7		0.639	3.42		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0073	J	0.0032	0.112		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	37.1		1.8	2.3		2
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.3	U	10.3	34.2		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.42	J	0.23	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	417		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.13		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-262-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-262-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192763
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE069-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011 19:52	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011 01:51	Sara E Johnson	25.25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:51	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011 18:00	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011 18:00	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011 17:51	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 04:30	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 05:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 06:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
07914	Boron	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/04/2011 08:26	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/08/2011 00:23	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 22:06	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 11:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/08/2011 11:36	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 11:36	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2

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Sample Description: **SL-262-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192763
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE069-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 15:47	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026003A	02/08/2011 11:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/13/2011 01:03	Ashley M Adams	2
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201B	02/18/2011 05:59	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 13:56	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401B	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-263-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192764
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE069-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	U	7.7	9.2		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.6		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.04
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.04
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.04
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2		1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.04
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.04
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		1.04
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.04
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.04
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1.04
06192	Methylene Chloride	75-09-2	0.57	J	0.27	4.6		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.04

*=This limit was used in the evaluation of the final result
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Sample Description: SL-263-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192764
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE069-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.04
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.04
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		1.04
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		24.85
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-263-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192764
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE069-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

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Sample Description: **SL-263-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192764
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE069-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		5.54	22.0		1
07914	Boron	7440-42-8	1.29	J	0.980	5.51		1
01650	Calcium	7440-70-2	3,960		6.75	22.0		1
01654	Iron	7439-89-6	23,900		5.19	22.0		1
01656	Lithium	7439-93-2	26.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,770		2.80	11.0		1
06958	Manganese	7439-96-5	275		0.0859	0.551		1
10145	Phosphorus	7723-14-0	380		0.617	11.0		1
01662	Potassium	7440-09-7	2,490		19.8	55.1		1
01667	Sodium	7440-23-5	107	J	41.1	110		1
07968	Strontium	7440-24-6	19.1		0.0683	0.551		1
06969	Tin	7440-31-5	2.46	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,620		0.813	2.14		2
10146	Zirconium	7440-67-7	2.00	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.17		0.0855	0.428		2
06126	Barium	7440-39-3	79.2		0.115	0.428		2
06127	Beryllium	7440-41-7	0.562		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0834	J	0.0428	0.107		2
06131	Chromium	7440-47-3	28.0		0.128	0.428		2
06132	Cobalt	7440-48-4	6.29		0.0214	0.107		2
06133	Copper	7440-50-8	9.83		0.0706	0.428		2
06135	Lead	7439-92-1	5.57		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.570		0.0535	0.107		2

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Sample Description: SL-263-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192764
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE069-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	18.8	0.107	0.428		2
06141	Selenium	7782-49-2	0.111 J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0454 J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.314	0.0321	0.107		2
06148	Vanadium	7440-62-2	38.1	0.0235	0.107		2
06149	Zinc	7440-66-6	54.5	0.599	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	410	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-263-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-263-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192764
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE069-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011 20:15	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011 02:11	Sara E Johnson	24.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102723587	01/27/2011 17:56	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102723587	01/27/2011 18:00	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102723587	01/27/2011 18:00	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102723587	01/27/2011 17:53	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLD026	02/05/2011 04:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLA026	02/03/2011 06:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLA026	02/01/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLD026	02/03/2011 02:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110310022A	02/04/2011 06:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110310022A	02/01/2011 10:15	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
07914	Boron	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
01654	Iron	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
06969	Tin	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	110345708001	02/08/2011 08:00	Joanne M Gates	2
10146	Zirconium	SW-846 6010B	1	110275708003	02/02/2011 22:10	John P Hook	1
06124	Antimony	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06126	Barium	SW-846 6020	1	110271026003D	02/08/2011 11:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06131	Chromium	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06133	Copper	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06135	Lead	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110271026003C	02/08/2011 11:39	David K Beck	2
06139	Nickel	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06141	Selenium	SW-846 6020	1	110271026003B	02/08/2011 11:39	David K Beck	2
06142	Silver	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
06145	Thallium	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-263-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192764
LLI Group # 1230697
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

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14420 Albemarle Point Place
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E6909 SDG#: DE069-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110271026003A	02/09/2011 15:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110271026003A	02/08/2011 11:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	110275711003	01/28/2011 19:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110275708003	01/28/2011 09:20	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708001	02/03/2011 19:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110271026003	01/28/2011 09:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110275711003	01/28/2011 11:15	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201A	02/10/2011 17:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202A	02/08/2011 14:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11039243201A	02/10/2011 14:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201A	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202A	02/07/2011 13:55	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401B	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB26-SA5B-012611 Water**
SSFL Area IV Collocated Soil Sampling
EB26-SA5B-012611

LLI Sample # WW 6192765
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 13:00

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6910 SDG#: DE069-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	410		6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB26-SA5B-012611 Water**
SSFL Area IV Collocated Soil Sampling
EB26-SA5B-012611

LLI Sample # WW 6192765
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 13:00

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6910 SDG#: DE069-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.52	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.15	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.12	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.020	J	0.010	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1

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Sample Description: **EB26-SA5B-012611 Water**
SSFL Area IV Collocated Soil Sampling
EB26-SA5B-012611

LLI Sample # WW 6192765
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 13:00

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6910 SDG#: DE069-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
	Di-n-butylphthalate was detected in the method blank at a concentration of .14 ug/l. The blank value was not subtracted from the analytical result.							
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.54		1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.54		1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.54		1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.54		1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.54		1
10227	PCB-1232	11141-16-5	0.22	U	0.22	0.54		1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.54		1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.54		1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.54		1
10227	PCB-1260	11096-82-5	0.11	U	0.11	0.54		1
10227	PCB-1262	37324-23-5	0.22	U	0.22	0.54		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.54		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1

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Sample Description: **EB26-SA5B-012611 Water**
SSFL Area IV Collocated Soil Sampling
EB26-SA5B-012611

LLI Sample # WW 6192765
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 13:00

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6910 SDG#: DE069-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110282AA	01/28/2011 05:00	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110311AA	01/31/2011 12:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110282AA	01/28/2011 05:00	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110311AA	01/31/2011 12:41	Jason M Long	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029WAB026	02/03/2011 02:35	Gregory J Drahovsky	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11029WAB026	01/30/2011 14:30	Elaine F Stoltzfus	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110310016A	02/03/2011 16:13	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110310016A	02/01/2011 00:30	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB26-SA5B-012611 Water
SSFL Area IV Collocated Soil Sampling
EB26-SA5B-012611

LLI Sample # WW 6192765
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 13:00

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6910 SDG#: DE069-10EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
08068	Strontium	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	110311848005	02/02/2011 02:59	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06025	Arsenic	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06026	Barium	SW-846 6020	1	110316050002D	02/08/2011 08:58	David K Beck	1
06027	Beryllium	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06028	Cadmium	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06031	Chromium	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06032	Cobalt	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06033	Copper	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06035	Lead	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110316050002C	02/08/2011 08:58	David K Beck	1
06039	Nickel	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06041	Selenium	SW-846 6020	1	110316050002B	02/08/2011 08:58	David K Beck	1
06042	Silver	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06045	Thallium	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06048	Vanadium	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
06049	Zinc	SW-846 6020	1	110316050002A	02/08/2011 08:58	David K Beck	1
00259	Mercury	SW-846 7470A	1	110315713002	02/01/2011 12:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110311848005	02/01/2011 08:47	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110316050002	02/01/2011 08:44	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110315713002	01/31/2011 15:50	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11036196602C	02/09/2011 20:12	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11034621701A	02/03/2011 14:57	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11027196401B	01/27/2011 11:54	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-012611 Water
SSFL Area IV Collocated Soil Sampling
TB-012611

LLI Sample # WW 6192766
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:30

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6911 SDG#: DE069-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-012611 Water**
SSFL Area IV Collocated Soil Sampling
TB-012611

LLI Sample # WW 6192766
LLI Group # 1230697
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:30

Submitted: 01/27/2011 10:00
Reported: 02/18/2011 15:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6911 SDG#: DE069-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110282AA	01/28/2011	05:20	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110311AA	01/31/2011	13:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110282AA	01/28/2011	05:20	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110311AA	01/31/2011	13:01	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11031B20A	01/31/2011	20:27	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11031B20A	01/31/2011	20:27	Butch A Sokolowski	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110281AA	Sample number(s): 6192756-6192764									
Acetone	6.7	U	6.7	8.0	ug/kg	182	174	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	97	102	80-120	5	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	91	95	79-120	5	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	106	105	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93	95	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	106	105	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	75	79	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	128	124	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	88	93	72-120	6	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	84	90	75-120	7	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	80	86	75-120	7	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102	105	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97	101	80-120	4	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	69	71	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	84	85	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	102	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	68	77	54-132	12	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	95	78-120	6	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	95	79-120	5	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	91	87	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	87	85	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102	102	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	102	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	102	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97	99	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92	95	78-120	3	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94	97	79-120	4	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	67	71	20-120	6	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	93	99	80-120	6	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98	97	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	98	105	73-123	6	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	104	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99	105	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	95	80-120	3	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	93	94	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	106	72-123	5	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	89	95	77-120	6	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	81	84	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	82	85	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	89	95	80-120	7	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	106	61-126	5	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	93	90	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91	95	57-120	5	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	82	81	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88	94	76-120	6	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	87	92	75-120	6	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	97	98	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69	68	61-134	1	30
Methylene Chloride	0.42	J	0.24	4.0	ug/kg	93	95	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	89	94	77-120	6	30
Styrene	0.10	U	0.10	4.0	ug/kg	95	98	76-120	3	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	105	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	89	90	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106	114	77-120	7	30
Toluene	0.11	J	0.08	4.0	ug/kg	96	101	80-120	5	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	89	93	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	83	84	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99	103	71-125	5	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	101	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	95	100	80-120	5	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87	90	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	95	96	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	89	93	79-120	5	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	87	92	78-120	5	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	74	80	53-120	8	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	97	101	80-120	5	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	85	91	80-120	6	30
Batch number: E110311AA	Sample number(s): 6192765-6192766									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	103		60-132		
Batch number: E110312AA	Sample number(s): 6192756-6192764									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	101	113	70-130	12	30
Batch number: Y110282AA	Sample number(s): 6192765-6192766									
Acetone	6	U	6.	20	ug/l	111	113	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	100	97	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	104	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	101	98	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	105	102	80-120	3	30
Bromoform	1	U	1.	5	ug/l	99	97	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	118	114	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	98	97	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	100	99	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	106	105	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	99	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	117	114	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	101	99	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	107	103	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	120	113	60-129	6	30
2-Chlorotoluene	1	U	1.	5	ug/l	102	102	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	101	99	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	52	55	38-136	5	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	104	103	66-120	0	30
Dibromochloromethane	1	U	1.	5	ug/l	98	100	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	99	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	120	117	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	99	79-120	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	115	112	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	100	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	92	80-120	9	30
1,2-Dichloropropane	1	U	1.	5	ug/l	97	95	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	112	106	77-124	6	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	101	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	97	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	103	99	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	98	79-120	1	30
Freon 113	2	U	2.	10	ug/l	116	114	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	82	83	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	97	97	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	96	97	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	104	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	104	99	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	95	93	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	104	103	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	98	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	101	100	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	98	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	96	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	100	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	101	101	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	99	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	110	106	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	101	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	103	99	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	122	116	64-129	6	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	103	106	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	103	103	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	97	97	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	97	80-120	1	30
Batch number: 11029WAB026	Sample number(s): 6192765									
Acenaphthene	0.010	U	0.010	0.050	ug/l	105	99	74-109	6	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	103	103	70-110	0	30
Anthracene	0.010	U	0.010	0.050	ug/l	106	108	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	104	104	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	103	103	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	103	115	69-123	11	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	96	97	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	106	96	59-130	11	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	85	40-138	1	30
Di-n-butylphthalate	0.14	J	0.050	1.0	ug/l	122	122	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	99	100	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	105	105	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	113	116	57-134	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	79	82	40-119	4	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	110	111	57-154	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	105	107	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	106	104	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	98	99	69-124	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	105	104	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	95	93	75-115	2	30
Naphthalene	0.010	U	0.010	0.050	ug/l	96	96	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	54	69	36-89	25	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	108	107	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	100	104	76-111	4	30
Pyrene	0.010	U	0.010	0.050	ug/l	90	90	69-118	0	30
Batch number: 11031SLB026	Sample number(s): 6192756-6192762									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	101		70-130		
Batch number: 11032SLA026	Sample number(s): 6192756-6192764									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	105		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	97		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	100		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	111		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	100		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	121*		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	111		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	92		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	100		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	102		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	82		56-121		
Batch number: 11032SLD026	Sample number(s): 6192756-6192757,6192759-6192764									
Aniline	170 U		170.	500	ug/kg	65		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	49		15-121		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	29		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	17 U		17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17 U		17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17 U		17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	63		24-101		
2,4-Dichlorophenol	17 U		17.	170	ug/kg	90		75-111		
2,4-Dimethylphenol	33 U		33.	170	ug/kg	90		72-111		
3,5-Dimethylphenol	33 U		33.	170	ug/kg	95		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	68		37-120		
2,4-Dinitrotoluene	33 U		33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17 U		17.	170	ug/kg	92		79-115		
1,2-Diphenylhydrazine	17 U		17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17 J		17.	330	ug/kg	96		75-117		
Hexachlorobenzene	17 U		17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67 U		67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	94		46-115		
Hexachloroethane	17 U		17.	170	ug/kg	85		68-105		
Isophorone	17 U		17.	170	ug/kg	88		69-110		
2-Methylphenol	33 U		33.	170	ug/kg	88		66-110		
4-Methylphenol	33 U		33.	170	ug/kg	92		66-117		
2-Nitroaniline	17 U		17.	170	ug/kg	93		78-116		
3-Nitroaniline	33 U		33.	170	ug/kg	89		62-109		
4-Nitroaniline	67 U		67.	170	ug/kg	74		49-98		
Nitrobenzene	17 U		17.	170	ug/kg	90		71-104		
2-Nitrophenol	17 U		17.	170	ug/kg	91		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17 U		17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17 U		17.	170	ug/kg	96		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	82		51-117		
Phenol	17 U		17.	170	ug/kg	89		58-112		
1,2,4-Trichlorobenzene	17 U		17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33 U		33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33 U		33.	170	ug/kg	94		78-111		
Batch number: 11039SLA026	Sample number(s): 6192758									
Aniline	170 U		170.	500	ug/kg	62		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17 U		17.	170	ug/kg	87		79-117		
Carbazole	17 U		17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33 U		33.	170	ug/kg	102		74-119		
4-Chloroaniline	67 U		67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17 U		17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17 U		17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17 U		17.	170	ug/kg	101		68-131		
2-Chloronaphthalene	17 U		17.	170	ug/kg	88		49-128		
2-Chlorophenol	17 U		17.	170	ug/kg	101		72-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	75		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	117		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	89		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	76		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	108		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	104		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenol	17	U	17.	170	ug/kg	113*		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11027A34B	Sample number(s): 6192756-6192762									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	73	67-119	1	30
Batch number: 11031B20A	Sample number(s): 6192766									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	91	75-135	18	30
Batch number: 110320005A	Sample number(s): 6192756-6192762									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	97	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	97	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	108		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	105		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100	U	100.	300	ug/kg	100		74-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	40	U	40.	120	ug/kg	108		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	92		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	105		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	106		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	104		80-120		
PETN	800 U		800.	2,400	ug/kg	113		80-120		
RDX	50	U	50.	120	ug/kg	108		75-131		
Tetryl	61	U	61.	120	ug/kg	90		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	109		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110310008A	Sample number(s): 6192756,6192758-6192762									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	105		80-126		
Batch number: 110360004A	Sample number(s): 6192757									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 110310001A	Sample number(s): 6192760									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110310016A	Sample number(s): 6192765									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	60*	68*	75-125	13	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	102	68-119	8	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	104	116	68-121	11	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110310022A	Sample number(s): 6192756-6192764									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	57*	62*	75-125	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	116		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110330006A	Sample number(s): 6192756-6192762									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	86		66-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	69		66-113		
Batch number: 110310025A	Sample number(s): 6192756-6192762									
Ethanol	100 U		100.	500	ug/kg	100		75-112		
Isopropanol	100 U		100.	500	ug/kg	107		75-125		
Methanol	100 U		100.	500	ug/kg	100		75-134		
Batch number: 110320013A	Sample number(s): 6192756-6192762									
Diethylene glycol	9.0	U	9.0	13	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 110310002A	Sample number(s): 6192756-6192762									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
Batch number: 110271026003A	Sample number(s): 6192756-6192764									
Antimony	0.0588	U	0.0588	0.196	mg/kg	46		11-208		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	94		80-120		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	94		82-118		
Cadmium	0.0392	U	0.0392	0.0980	mg/kg	96		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	100		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	93		82-118		
Copper	0.0782	J	0.0647	0.392	mg/kg	101		80-120		
Lead	0.0102	U	0.0102	0.196	mg/kg	100		80-120		
Nickel	0.263	J	0.0980	0.392	mg/kg	102		80-120		
Silver	0.0118	U	0.0118	0.0980	mg/kg	93		66-134		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	98		81-119		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	96		90-110		
Zinc	0.643	J	0.549	2.94	mg/kg	98		78-122		
Batch number: 110271026003B	Sample number(s): 6192756-6192764									
Selenium	0.0392	U	0.0392	0.392	mg/kg	97		79-122		
Batch number: 110271026003C	Sample number(s): 6192756-6192764									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	92		78-122		
Batch number: 110271026003D	Sample number(s): 6192756-6192764									
Barium	0.106	U	0.106	0.392	mg/kg	95		79-121		
Batch number: 110275708003	Sample number(s): 6192756-6192764									
Aluminum	5.03	U	5.03	20.0	mg/kg	86		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	91		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	86		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	92		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	94		81-119		
Phosphorus	1.46	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	91		78-110		
Sodium	37.3	U	37.3	100	mg/kg	91		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		79-121		
Tin	1.49	J	1.00	10.0	mg/kg	92		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110275711003	Sample number(s): 6192756-6192764								
Mercury	0.0028 U	0.0028	0.0969	mg/kg	105		88-123		
Batch number: 110311848005	Sample number(s): 6192765								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	96	90-112	0	20
Boron	0.0138 U	0.0138	0.0500	mg/l	93	94	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	101	100	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	98	98	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	96	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	100	100	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99	98	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	100	98	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	99	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	99	98	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	100	99	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	100	80-120	1	20
Batch number: 110315713002	Sample number(s): 6192765								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	103	104	80-120	1	20
Batch number: 110316050002A	Sample number(s): 6192765								
Antimony	0.00030 U	0.00030	0.0010	mg/l	107	111*	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	103	105	86-111	2	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	105	105	90-112	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	107	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	107	103	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	103	100	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	105	102	90-113	3	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	105	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	110	106	90-113	4	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	105	104	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	100	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	106	103	80-120	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	103	106	80-120	3	20
Batch number: 110316050002B	Sample number(s): 6192765								
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	103	85-114	3	20
Batch number: 110316050002C	Sample number(s): 6192765								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	80-120	1	20
Batch number: 110316050002D	Sample number(s): 6192765								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	102	88-113	2	20
Batch number: 110345708001	Sample number(s): 6192756-6192764								
Titanium	0.380 U	0.380	1.00	mg/kg	108		80-120		
Batch number: 11027196401B	Sample number(s): 6192765								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	102	103	90-110	1	20
Batch number: 11034621701A	Sample number(s): 6192765								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	92	94	85-115	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11036196602C	Sample number(s): 6192765								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	95	94	90-110	2	20
Batch number: 11038621202A	Sample number(s): 6192756-6192762,6192764								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11039102201A	Sample number(s): 6192756-6192762								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	108		80-120		
Batch number: 11039243201A	Sample number(s): 6192756-6192764								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11040621201A	Sample number(s): 6192756-6192764								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11042042201B	Sample number(s): 6192763								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11031039402A	Sample number(s): 6192756-6192760								
22a pH by 9045C					100		95-105		
Batch number: 11031039402B	Sample number(s): 6192761-6192764								
22a pH by 9045C					100		95-105		
Batch number: 11031182101A	Sample number(s): 6192756-6192760								
32a OR Potential					99		98-102		
Batch number: 11031182101B	Sample number(s): 6192761-6192764								
32a OR Potential					99		98-102		
Batch number: 11034162401B	Sample number(s): 6192763-6192764								
28a Moisture Content by 160.3					99		80-120		
Batch number: 11039162402A	Sample number(s): 6192756-6192762								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110281AA	Sample number(s): 6192756-6192764 UNSPK: 6192758								
Acetone	149		15-210						
Benzene	105		55-143						
Bromobenzene	99		43-139						
Bromochloromethane	104		60-137						
Bromodichloromethane	95		53-136						
Bromoform	97		38-124						
Bromomethane	75		42-168						
2-Butanone	99		37-163						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
n-Butylbenzene	87		30-146						
sec-Butylbenzene	91		33-157						
tert-Butylbenzene	87		41-152						
Carbon Tetrachloride	114		45-153						
Chlorobenzene	105		49-135						
Chloroethane	69		39-152						
2-Chloroethyl Vinyl Ether	73		32-139						
Chloroform	107		61-142						
Chloromethane	75		51-163						
2-Chlorotoluene	100		42-146						
4-Chlorotoluene	100		39-145						
1,2-Dibromo-3-chloropropane	72		30-139						
Dibromochloromethane	101		51-128						
1,2-Dibromoethane	95		54-129						
Dibromomethane	98		57-130						
1,2-Dichlorobenzene	96		36-133						
1,3-Dichlorobenzene	96		34-134						
1,4-Dichlorobenzene	95		35-136						
Dichlorodifluoromethane	75		26-151						
1,1-Dichloroethane	101		63-142						
1,2-Dichloroethane	97		68-131						
1,1-Dichloroethene	111		61-149						
cis-1,2-Dichloroethene	105		60-136						
trans-1,2-Dichloroethene	112		59-142						
1,2-Dichloropropane	95		62-135						
1,3-Dichloropropane	92		58-129						
2,2-Dichloropropane	109		53-147						
1,1-Dichloropropene	100		54-145						
cis-1,3-Dichloropropene	78		51-131						
trans-1,3-Dichloropropene	82		49-129						
Ethylbenzene	99		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	60		10-155						
2-Hexanone	68		32-160						
Isopropylbenzene	94		38-144						
p-Isopropyltoluene	91		29-152						
Methyl Tertiary Butyl Ether	84		55-129						
4-Methyl-2-pentanone	54		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	101		39-157						
Styrene	98		35-134						
1,1,1,2-Tetrachloroethane	111		52-130						
1,1,2,2-Tetrachloroethane	84		40-152						
Tetrachloroethene	163*		42-149						
Toluene	106		50-146						
1,2,3-Trichlorobenzene	57		10-140						
1,2,4-Trichlorobenzene	56		10-136						
1,1,1-Trichloroethane	110		64-142						
1,1,2-Trichloroethane	102		54-139						
Trichloroethene	106		53-144						
Trichlorofluoromethane	97		47-163						
1,2,3-Trichloropropane	90		45-154						
1,2,4-Trimethylbenzene	95		37-149						

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3,5-Trimethylbenzene	96		38-150						
Vinyl Chloride	80		50-154						
m+p-Xylene	106		44-137						
o-Xylene	91		42-137						
Batch number: E110311AA	Sample number(s): 6192765-6192766 UNSPK: P192973								
1,4-Dioxane	125	99	50-150	15	30				
Batch number: 11031SLB026	Sample number(s): 6192756-6192762 UNSPK: 6192757								
N-Nitrosodimethylamine	89	78	70-130	11	30				
Batch number: 11032SLA026	Sample number(s): 6192756-6192764 UNSPK: P191426								
Acenaphthene	109*	107*	63-105	2	30				
Acenaphthylene	104	104	67-114	0	30				
Anthracene	105	105	60-122	0	30				
Benzo(a)anthracene	108	110	59-128	2	30				
Benzo(a)pyrene	102	102	45-138	0	30				
Benzo(b)fluoranthene	109	109	43-155	0	30				
Benzo(g,h,i)perylene	108	104	33-141	4	30				
Benzo(k)fluoranthene	103	104	42-144	1	30				
Butylbenzylphthalate	118	126	57-173	6	30				
Di-n-butylphthalate	117	122	65-148	4	30				
Chrysene	105	108	48-134	3	30				
Dibenz(a,h)anthracene	102	102	22-133	0	30				
Diethylphthalate	112	125	70-136	12	30				
Dimethylphthalate	115	113	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	132	141	39-167	6	30				
Fluoranthene	103	113	26-166	10	30				
Fluorene	108	108	66-122	0	30				
Indeno(1,2,3-cd)pyrene	102	101	21-143	0	30				
1-Methylnaphthalene	103	116	72-123	12	30				
2-Methylnaphthalene	98	107*	64-103	9	30				
Naphthalene	102	102	61-102	0	30				
N-Nitrosodimethylamine	118*	102	48-113	15	30				
Di-n-octylphthalate	111	112	40-192	1	30				
Phenanthrene	105	107	12-165	2	30				
Pyrene	99	103	15-153	4	30				
Batch number: 11032SLD026	Sample number(s): 6192756-6192757,6192759-6192764 UNSPK: 6192756								
Aniline	81	82	35-95	1	30				
Benzidine	65	69	35-141	5	30				
Benzoic acid	68	58	10-173	15	30				
Benzyl alcohol	93	92	67-115	1	30				
4-Bromophenyl-phenylether	99	103	67-129	4	30				
Carbazole	93	95	64-120	2	30				
4-Chloro-3-methylphenol	91	90	76-110	1	30				
4-Chloroaniline	40	52	23-95	27	30				
bis(2-Chloroethoxy)methane	93	92	75-104	1	30				
bis(2-Chloroethyl)ether	91	93	60-116	2	30				
bis(2-Chloroisopropyl)ether	93	95	55-142	2	30				
2-Chloronaphthalene	74	94	50-141	23	30				
2-Chlorophenol	97	94	73-121	2	30				
4-Chlorophenyl-phenylether	95	95	80-109	0	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenzofuran	96	94	71-112	1	30				
1,2-Dichlorobenzene	88	92	66-108	5	30				
1,3-Dichlorobenzene	87	92	63-109	6	30				
1,4-Dichlorobenzene	88	92	70-100	4	30				
3,3'-Dichlorobenzidine	75	82	16-119	9	30				
2,4-Dichlorophenol	97	96	78-117	1	30				
2,4-Dimethylphenol	95	95	78-110	0	30				
3,5-Dimethylphenol	99	99	70-130	1	30				
4,6-Dinitro-2-methylphenol	78	75	24-116	4	30				
2,4-Dinitrophenol	61	53	20-143	14	30				
2,4-Dinitrotoluene	90	89	73-113	2	30				
2,6-Dinitrotoluene	92	92	69-123	0	30				
1,2-Diphenylhydrazine	102	102	71-129	0	30				
bis(2-Ethylhexyl)phthalate	100	103	63-122	3	30				
Hexachlorobenzene	100	101	77-114	1	30				
Hexachlorobutadiene	96	99	62-120	3	30				
Hexachlorocyclopentadiene	80	78	10-153	1	30				
Hexachloroethane	82	91	57-109	10	30				
Isophorone	93	93	73-102	0	30				
2-Methylphenol	94	94	75-111	0	30				
4-Methylphenol	99	98	71-111	1	30				
2-Nitroaniline	94	94	67-125	0	30				
3-Nitroaniline	91	88	59-122	3	30				
4-Nitroaniline	72	73	52-112	2	30				
Nitrobenzene	96	96	72-106	0	30				
2-Nitrophenol	95	92	74-115	3	30				
4-Nitrophenol	83	83	54-113	0	30				
N-Nitroso-di-n-propylamine	89	91	60-116	2	30				
N-Nitrosodiphenylamine	99	99	86-145	0	30				
Pentachlorophenol	81	80	28-127	1	30				
Phenol	96	96	58-126	1	30				
1,2,4-Trichlorobenzene	97	96	72-115	0	30				
2,4,5-Trichlorophenol	94	95	78-109	1	30				
2,4,6-Trichlorophenol	96	97	77-115	0	30				
Batch number: 11039SLA026	Sample number(s): 6192758 UNSPK: P199403								
Aniline	77	79	35-95	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	72	67	10-173	6	30				
Benzyl alcohol	133*	119*	67-115	11	30				
4-Bromophenyl-phenylether	95	82	67-129	15	30				
Carbazole	108	98	64-120	10	30				
4-Chloro-3-methylphenol	124*	113*	76-110	9	30				
4-Chloroaniline	63	72	23-95	13	30				
bis(2-Chloroethoxy)methane	98	95	75-104	3	30				
bis(2-Chloroethyl)ether	106	98	60-116	8	30				
bis(2-Chloroisopropyl)ether	111	101	55-142	10	30				
2-Chloronaphthalene	89	71	50-141	22	30				
2-Chlorophenol	121	114	73-121	6	30				
4-Chlorophenyl-phenylether	98	88	80-109	11	30				
Dibenzofuran	104	95	71-112	8	30				
1,2-Dichlorobenzene	94	90	66-108	4	30				
1,3-Dichlorobenzene	88	83	63-109	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	89	84	70-100	5	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	110	105	78-117	5	30				
2,4-Dimethylphenol	109	101	78-110	7	30				
3,5-Dimethylphenol	126	116	70-130	8	30				
4,6-Dinitro-2-methylphenol	53	52	24-116	3	30				
2,4-Dinitrophenol	34	34	20-143	1	30				
2,4-Dinitrotoluene	113	104	73-113	8	30				
2,6-Dinitrotoluene	110	101	69-123	8	30				
1,2-Diphenylhydrazine	113	98	71-129	14	30				
bis(2-Ethylhexyl)phthalate	130*	119	63-122	9	30				
Hexachlorobenzene	95	82	77-114	15	30				
Hexachlorobutadiene	80	75	62-120	7	30				
Hexachlorocyclopentadiene	56	50	10-153	12	30				
Hexachloroethane	90	78	57-109	14	30				
Isophorone	106*	98	73-102	8	30				
2-Methylphenol	136*	121*	75-111	12	30				
4-Methylphenol	137*	117*	71-111	16	30				
2-Nitroaniline	115	105	67-125	9	30				
3-Nitroaniline	107	101	59-122	6	30				
4-Nitroaniline	91	90	52-112	2	30				
Nitrobenzene	103	99	72-106	3	30				
2-Nitrophenol	102	96	74-115	6	30				
4-Nitrophenol	103	99	54-113	5	30				
N-Nitroso-di-n-propylamine	126*	113	60-116	11	30				
N-Nitrosodiphenylamine	102	88	86-145	14	30				
Pentachlorophenol	69	67	28-127	3	30				
Phenol	135*	129*	58-126	4	30				
1,2,4-Trichlorobenzene	88	81	72-115	9	30				
2,4,5-Trichlorophenol	106	98	78-109	8	30				
2,4,6-Trichlorophenol	97	91	77-115	6	30				
Batch number: 110320005A	Sample number(s): 6192756-6192762 UNSPK: 6192756								
4-Amino-2,6-Dinitrotoluene	110	111	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	111	112	80-137	1	50				
1,3-Dinitrobenzene	110	111	38-166	1	50				
2,4-Dinitrotoluene	108	109	80-131	1	50				
2,6-Dinitrotoluene	112	110	80-127	1	50				
HMX	101	100	63-128	1	50				
Nitrobenzene	110	113	80-125	3	50				
Nitroglycerin	101	102	80-120	0	50				
2-Nitrotoluene	108	108	80-122	0	50				
3-Nitrotoluene	108	109	72-119	1	50				
4-Nitrotoluene	107	106	80-125	0	50				
PETN	117	118	80-121	1	50				
RDX	105	106	75-129	0	50				
Tetryl	81	78	55-174	4	50				
1,3,5-Trinitrobenzene	111	111	82-126	1	50				
2,4,6-Trinitrotoluene	108	109	82-130	1	50				
Batch number: 110310008A	Sample number(s): 6192756,6192758-6192762 UNSPK: 6192756								
17a Formaldehyde by 8315A	103	93	80-120	10	50				

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Quality Control Summary

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Reported: 02/18/11 at 03:33 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110360004A	Sample number(s): 6192757 UNSPK: P197571								
17a Formaldehyde by 8315A	93	94	80-120	2	50				
Batch number: 110310001A	Sample number(s): 6192760 UNSPK: P189220								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 110310022A	Sample number(s): 6192756-6192764 UNSPK: P191426								
PCB-1016	90	93	29-146	3	50				
PCB-1260	102	109	39-149	7	50				
Batch number: 110330006A	Sample number(s): 6192756-6192762 UNSPK: 6192756								
EFH (C12-C14)	82	85	49-123	3	20				
EFH (C15-C20)	114	155*	49-123	24*	20				
EFH (C21-C30)	182 (2)	903 (2)	49-123	56*	20				
EFH (C30 - C40)	470 (2)	2351 (2)	49-123	69*	20				
EFH (C8-C11)	77	64	49-123	18	20				
Batch number: 110310025A	Sample number(s): 6192756-6192762 UNSPK: 6192761								
Ethanol	82	82	24-143	0	20				
Isopropanol	89	89	75-125	0	20				
Methanol	83	82	45-136	1	20				
Batch number: 110320013A	Sample number(s): 6192756-6192762 UNSPK: P190381								
Diethylene glycol	83	82	59-109	1	20				
Ethylene glycol	96	96	63-107	0	20				
Propylene glycol	91	88	63-107	3	20				
Batch number: 110310002A	Sample number(s): 6192756-6192762 UNSPK: P190381								
m-Terphenyl	95	90	75-125	5	20				
o-Terphenyl	97	92	75-125	5	20				
p-Terphenyl	83	80	75-125	4	20				
Batch number: 110271026003A	Sample number(s): 6192756-6192764 UNSPK: 6192759 BKG: 6192759								
Antimony	13*	16*	75-125	18	20	0.0613 J	0.0594 U	200* (1)	20
Arsenic	104	94	75-125	3	20	4.30	4.36	1	20
Beryllium	96	95	75-125	0	20	0.504	0.504	0	20
Cadmium	102	100	75-125	1	20	0.178	0.183	3 (1)	20
Chromium	107	102	75-125	2	20	13.5	14.3	6	20
Cobalt	88	87	75-125	0	20	4.45	4.14	7	20
Copper	89	88	75-125	0	20	7.31	7.50	3	20
Lead	103	102	75-125	0	20	7.52	7.37	2	20
Nickel	96	93	75-125	1	20	9.69	10.0	4	20
Silver	102	102	75-125	2	20	0.0263 J	0.0305 J	15 (1)	20
Thallium	114	101	75-125	7	20	0.228	0.235	3 (1)	20
Vanadium	117	104	75-125	3	20	24.9	26.4	6	20
Zinc	107 (2)	87 (2)	75-125	3	20	53.7	55.7	4	20
Batch number: 110271026003B	Sample number(s): 6192756-6192764 UNSPK: 6192759 BKG: 6192759								
Selenium	94	102	75-125	9	20	0.152 J	0.127 J	18 (1)	20
Batch number: 110271026003C	Sample number(s): 6192756-6192764 UNSPK: 6192759 BKG: 6192759								
Molybdenum	92	95	75-125	4	20	0.498	0.467	6 (1)	20

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Quality Control Summary

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110271026003D	Sample number(s): 6192756-6192764 UNSPK: 6192759 BKG: 6192759								
Barium	157 (2)	134 (2)	75-125	2	20	85.6	90.1	5	20
Batch number: 110275708003	Sample number(s): 6192756-6192764 UNSPK: 6192759 BKG: 6192759								
Aluminum	1569 (2)	1692 (2)	75-125	2	20	13,100	12,600	4	20
Boron	97	97	84-115	2	20	3.46 J	3.07 J	12 (1)	20
Calcium	125 (2)	146 (2)	75-125	3	20	2,370	2,360	1	20
Iron	502 (2)	564 (2)	75-125	0	20	16,800	16,600	1	20
Lithium	101	102	82-114	2	20	20.2	20.1	0	20
Magnesium	134 (2)	147 (2)	75-125	1	20	3,440	3,320	4	20
Manganese	-20 (2)	11 (2)	75-125	4	20	358	320	11	20
Phosphorus	28 (2)	40 (2)	75-125	3	20	453	400	13	20
Potassium	119	125	75-125	2	20	3,300	3,210	3	20
Sodium	99	99	75-125	2	20	124	128	3 (1)	20
Strontium	100	100	75-115	2	20	17.7	18.2	3	20
Tin	90	91	80-110	3	20	2.09 J	1.95 J	7 (1)	20
Zirconium	98	98	75-125	2	20	2.30 J	2.85 J	22* (1)	20
Batch number: 110275711003	Sample number(s): 6192756-6192764 UNSPK: 6192759 BKG: 6192759								
Mercury	103	103	65-135	1	20	0.0036 J	0.0041 J	13 (1)	20
Batch number: 110345708001	Sample number(s): 6192756-6192764 UNSPK: 6192756 BKG: 6192756								
Titanium	102 (2)	131 (2)	75-125	2	20	1,090	1,040	5	20
Batch number: 11038621202A	Sample number(s): 6192756-6192762,6192764 UNSPK: 6192756 BKG: 6192756								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11039102201A	Sample number(s): 6192756-6192762 UNSPK: 6192756 BKG: 6192756								
21a Cyanide by 9012B	103		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11039243201A	Sample number(s): 6192756-6192764 UNSPK: 6192756 BKG: 6192756								
3a Cr VI by EPA 7199	93		75-125			0.28 J	0.26 J	6 (1)	20
Batch number: 11040621201A	Sample number(s): 6192756-6192764 UNSPK: 6192756 BKG: 6192756								
11a Anions by 300.0 - Fluoride	86		80-120			2.7	3.3	18 (1)	20
11a Anions by 300.0 - Nitrate	98		80-120			2.9	2.9	1 (1)	20
Batch number: 11042042201B	Sample number(s): 6192763 UNSPK: 11042BU BKG: 11042BU								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11031039402A	Sample number(s): 6192756-6192760 BKG: P191426								
22a pH by 9045C						6.60	6.63	0	1
Batch number: 11031039402B	Sample number(s): 6192761-6192764 BKG: 6192761								
22a pH by 9045C						7.55	7.56	0	1
Batch number: 11031182101A	Sample number(s): 6192756-6192760 BKG: P191426								
32a OR Potential						513	511	0	6
Batch number: 11031182101B	Sample number(s): 6192761-6192764 BKG: 6192761								
32a OR Potential						350	356	2	6

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Quality Control Summary

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11034162401B	Sample number(s): 6192763-6192764					BKG: P193669			
28a Moisture Content by 160.3						10.9	10.3	5	20
Batch number: 11039162402A	Sample number(s): 6192756-6192762					BKG: 6192761			
28a Moisture Content by 160.3						12.7	13.8	8	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110281AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6192756	116	116	93	83
6192757	115	109	95	82
6192758	113	109	95	81
6192759	115	108	104	68*
6192760	117	113	93	81
6192761	117	118	93	80
6192762	116	110	95	81
6192763	117	110	94	81
6192764	117	111	94	82
Blank	113	109	96	83
LCS	105	107	101	100
LCSD	103	102	101	100
MS	103	100	105	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110311AA

	Toluene-d8
6192765	97
6192766	97
Blank	97
LCS	97
MS	96
MSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110312AA

	Toluene-d8
6192756	95

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
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Surrogate Quality Control

6192757	95
6192758	96
6192759	96
6192760	95
6192761	94
6192762	95
6192763	95
6192764	96
Blank	96
LCS	96
LCSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110282AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6192765	105	102	99	97
6192766	105	100	100	97
Blank	104	102	100	98
LCS	104	101	101	101
LCSD	101	104	102	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11029WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6192765	114	79	92
Blank	101	83	92
LCS	114	85	91
LCSD	114	86	93
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11031SLB026

	N-Nitrosodimethylamine-d6
6192756	464*
6192757	103
6192758	512*
6192759	87
6192760	94
6192761	100
6192762	68
Blank	77
LCS	65
MS	97
MSD	96
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM

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Quality Control Summary

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Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

Batch number: 11032SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6192756	103	102	111
6192757	111	77	90
6192758	103	91	89
6192759	110	96	96
6192760	119	99	103
6192761	111	88	94
6192762	116	100	105
6192763	111	98	106
6192764	117	103	107
Blank	105	99	119
LCS	121	99	81
MS	121	101	98
MSD	130	103	102
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11032SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6192756	89	93	92	87	93	97
6192757	86	87	92	85	91	96
6192759	71	73	74	68	74	76
6192760	86	90	86	87	90	99
6192761	90	93	89	85	91	99
6192762	89	92	84	84	88	99
6192763	87	90	81	86	89	99
6192764	79	82	81	79	85	96
Blank	80	83	87	81	87	90
LCS	88	91	95	88	90	92
MS	92	96	90	91	95	98
MSD	91	95	90	91	94	99
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11039SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6192758	128*	108	50	96	89	107
Blank	93	96	98	89	89	98
LCS	105	105	103	97	95	99
MS	125*	115	113	98	89	102
MSD	119	110	109	94	84	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11027A34B

	Trifluorotoluene-F
6192756	80
6192757	79
6192758	77

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

6192759	74
6192760	76
6192761	78
6192762	70
Blank	84
LCS	88
LCSD	86
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11031B20A

	Trifluorotoluene-F
6192766	68
Blank	68
LCS	99
LCSD	98
Limits:	63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110310008A

	Butyraldehyde
6192756	98
6192758	96
6192759	93
6192760	104
6192761	101
6192762	91
Blank	104
LCS	104
MS	98
MSD	92
Limits:	64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110310016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6192765	98	95
Blank	100	61
LCS	94	68
LCSD	101	92
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110310022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6192756	69	76
6192757	87	93
6192758	82	93
6192759	85	97

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Surrogate Quality Control

6192760	77	98
6192761	97	104
6192762	102	114
6192763	94	110
6192764	85	97
Blank	94	116
LCS	99	117
LCSD	98	117
MS	95	108
MSD	94	112
Limits:	53-139	45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 110320005A

	2-Nitro-m-xylene
6192756	122
6192757	126
6192758	125
6192759	123
6192760	129
6192761	122
6192762	129
Blank	126
LCS	118
LCSD	123
MS	125
MSD	123
Limits:	80-146

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110360004A

	Butyraldehyde
6192757	106
Blank	105
LCS	103
MS	101
MSD	100
Limits:	64-126

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110310002A

	n-Triacontane-d62
6192756	106
6192757	100
6192758	131
6192759	98
6192760	105
6192761	104
6192762	105
Blank	109
LCS	107

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Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

MS	106
MSD	102

Limits: 50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110310025A

	Acetone
6192756	89
6192757	86
6192758	91
6192759	83
6192760	93
6192761	86
6192762	78
Blank	98
LCS	100
MS	83
MSD	82

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110320013A

	Tetramethylene glycol
6192756	61
6192757	60
6192758	52
6192759	65
6192760	62
6192761	53
6192762	61
Blank	96
LCS	102
MS	102
MSD	99

Limits: 29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110330006A

	Chlorobenzene	Orthoterphenyl
6192756	77	90
6192757	72	87
6192758	76	85
6192759	74	86
6192760	70	81
6192761	70	84
6192762	69	79
Blank	74	83
LCS	76	86
MS	83	92
MSD	84	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230697
Reported: 02/18/11 at 03:33 PM

Surrogate Quality Control

Limits: 37-125 47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1230697 sample# 6192756-66

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-015-SA5B-SB-4.5	1.26.2011	1558	soil	NONE	5-Encore samplers									X	X	X											
SL-015-SA5B-SB-4.0-5.0	1.26.2011	1602	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-016-SA5B-SB-4.5	1.26.2011	1400	soil	NONE	5-Encore samplers									X	X	X											
SL-016-SA5B-SB-4.0-5.0	1.26.2011	1404	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-016-SA5B-SB-9.5	1.26.2011	1410	soil	NONE	5-Encore samplers									X	X	X											
SL-016-SA5B-SB-9.0-10.0	1.26.2011	1414	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-018-SA5B-SB-4.5	1.26.2011	1117	soil	NONE	5-Encore samplers									X	X	X											
SL-018-SA5B-SB-4.0-5.0	1.26.2011	1120	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-018-SA5B-SB-9.5	1.26.2011	1124	soil	NONE	5-Encore samplers									X	X	X											
SL-018-SA5B-SB-9.0-10.0	1.26.2011	1120	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X		
SL-180-SA5B-SB-4.5	1.26.2011	1515	soil	NONE	5-Encore samplers									X	X	X											
SL-180-SA5B-SB-4.0-5.0	1.26.2011	1518	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-180-SA5B-SB-9.5	1.26.2011	1455	soil	NONE	5-Encore samplers									X	X	X											
SL-180-SA5B-SB-9.0-10.0	1.26.2011	1459	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-262-SA5B-SB-4.5	1.26.2011	1126	soil	NONE	4-Encore samplers									X	X												
SL-262-SA5B-SB-4.0-5.0	1.26.2011	1129	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-263-SA5B-SB-2.5	1.26.2011	0911	soil	NONE	4-Encore samplers									X	X												
SL-263-SA5B-SB-2.0-3.0	1.26.2011	0914	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
EB26-SA5B-012611	1.26.2011	1300	water	NONE	4-1 liter amber			X	X	X																	
EB26-SA5B-012611	1.26.2011	1300	water	NONE	1-500 ml poly		X				X	X															Subsurface rinsate
EB26-SA5B-012611	1.26.2011	1300	water	HNO3	1-500 ml poly	X																					Subsurface rinsate
EB26-SA5B-012611	1.26.2011	1300	water	HCl	6-40 ml VOA VIALS									X	X												Subsurface rinsate
TB-012611	1.26.2011	1630	water	HCl	4-40 mL VOA VIALS									X	X	X											Subsurface rinsate
Relinquished by: (Signature)	Date/Time 1/27/2011 17:00		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature) Annelise H. Owen	Date/Time 1/27/11 1000		Airbill No.(s) 869514322350, 869514322361, 869514322372																								No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/27/2011
Group Number: 1230700
SDG: DX044
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA5B-SB-4.0-5.0 Soil	6192773
SL-016-SA5B-SB-4.0-5.0 Soil	6192774
SL-016-SA5B-SB-9.0-10.0 Soil	6192775
SL-018-SA5B-SB-4.0-5.0 Soil	6192776
SL-018-SA5B-SB-9.0-10.0 Soil	6192777
SL-180-SA5B-SB-4.0-5.0 Soil	6192778
SL-180-SA5B-SB-9.0-10.0 Soil	6192779
SL-262-SA5B-SB-4.0-5.0 Soil	6192780
SL-263-SA5B-SB-2.0-3.0 Soil	6192781
EB26-SA5B-012611 Water	6192782

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192773
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4408 SDG#: DX044-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192773
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4408 SDG#: DX044-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0640	JB	0.00650	1.16	1
11031	12378-PeCDD	40321-76-4	0.274	JB	0.0174	5.81	1
11031	123478-HxCDD	39227-28-6	0.260	JB	0.0361	5.81	1
11031	123678-HxCDD	57653-85-7	0.882	JB	0.0362	5.81	1
11031	123789-HxCDD	19408-74-3	0.832	JB	0.0332	5.81	1
11031	1234678-HpCDD	35822-46-9	21.5	B	0.0429	5.81	1
11031	OCDD	3268-87-9	286	B	0.0295	11.6	1
11031	2378-TCDF	51207-31-9	0.0888	JB	0.0127	1.16	1
11031	12378-PeCDF	57117-41-6	0.252	JB	0.00906	5.81	1
11031	23478-PeCDF	57117-31-4	0.257	JBQ	0.00929	5.81	1
11031	123478-HxCDF	70648-26-9	0.274	JB	0.0280	5.81	1
11031	123678-HxCDF	57117-44-9	0.318	JB	0.0211	5.81	1
11031	123789-HxCDF	72918-21-9	0.200	JB	0.0203	5.81	1
11031	234678-HxCDF	60851-34-5	0.254	JB	0.0190	5.81	1
11031	1234678-HpCDF	67562-39-4	2.69	JB	0.0224	5.81	1
11031	1234789-HpCDF	55673-89-7	0.241	JB	0.0250	5.81	1
11031	OCDF	39001-02-0	6.46	JB	0.0131	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	95	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	103	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-015-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192773
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4408 SDG#: DX044-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5B-SB-4.0-5.0

LLI Sample # SW 6192773
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 16:02

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4408 SDG#: DX044-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/16/2011 21:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192774
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4409 SDG#: DX044-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192774
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4409 SDG#: DX044-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0576	JB	0.00949	1.14	1
11031	12378-PeCDD	40321-76-4	0.109	JBQ	0.0194	5.71	1
11031	123478-HxCDD	39227-28-6	0.137	JB	0.0406	5.71	1
11031	123678-HxCDD	57653-85-7	0.540	JB	0.0421	5.71	1
11031	123789-HxCDD	19408-74-3	0.506	JB	0.0398	5.71	1
11031	1234678-HpCDD	35822-46-9	14.1	B	0.0345	5.71	1
11031	OCDD	3268-87-9	207	B	0.0335	11.4	1
11031	2378-TCDF	51207-31-9	0.0308	JBQ	0.0134	1.14	1
11031	12378-PeCDF	57117-41-6	0.115	JB	0.00949	5.71	1
11031	23478-PeCDF	57117-31-4	0.161	JB	0.00960	5.71	1
11031	123478-HxCDF	70648-26-9	0.138	JB	0.0302	5.71	1
11031	123678-HxCDF	57117-44-9	0.157	JBQ	0.0248	5.71	1
11031	123789-HxCDF	72918-21-9	0.176	JB	0.0280	5.71	1
11031	234678-HxCDF	60851-34-5	0.192	JB	0.0254	5.71	1
11031	1234678-HpCDF	67562-39-4	1.42	JB	0.0146	5.71	1
11031	1234789-HpCDF	55673-89-7	0.171	JB	0.0184	5.71	1
11031	OCDF	39001-02-0	3.23	JB	0.0200	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192774
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4409 SDG#: DX044-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-4.0-5.0

LLI Sample # SW 6192774
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:04

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4409 SDG#: DX044-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 01:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192775
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4410 SDG#: DX044-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192775
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4410 SDG#: DX044-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0371 JBQ	0.0100	1.10	1
11031	12378-PeCDD	40321-76-4	0.367 JB	0.0275	5.52	1
11031	123478-HxCDD	39227-28-6	0.590 JBQ	0.0634	5.52	1
11031	123678-HxCDD	57653-85-7	1.37 JB	0.0627	5.52	1
11031	123789-HxCDD	19408-74-3	1.50 JB	0.0587	5.52	1
11031	1234678-HpCDD	35822-46-9	37.0 B	0.0602	5.52	1
11031	OCDD	3268-87-9	424 B	0.0542	11.0	1
11031	2378-TCDF	51207-31-9	0.0391 JBQ	0.0153	1.10	1
11031	12378-PeCDF	57117-41-6	0.0535 JB	0.0107	5.52	1
11031	23478-PeCDF	57117-31-4	0.176 JBQ	0.0109	5.52	1
11031	123478-HxCDF	70648-26-9	0.278 JB	0.0461	5.52	1
11031	123678-HxCDF	57117-44-9	0.388 JB	0.0344	5.52	1
11031	123789-HxCDF	72918-21-9	0.164 JB	0.0313	5.52	1
11031	234678-HxCDF	60851-34-5	0.495 JB	0.0296	5.52	1
11031	1234678-HpCDF	67562-39-4	5.11 JB	0.0313	5.52	1
11031	1234789-HpCDF	55673-89-7	0.365 JB	0.0291	5.52	1
11031	OCDF	39001-02-0	10.6 JB	0.0237	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192775
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4410 SDG#: DX044-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5B-SB-9.0-10.0

LLI Sample # SW 6192775
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:14

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4410 SDG#: DX044-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 02:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192776
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4411 SDG#: DX044-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192776
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4411 SDG#: DX044-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0235 JBQ	0.0114	1.16	1
11031	12378-PeCDD	40321-76-4	0.0611 JB	0.0179	5.80	1
11031	123478-HxCDD	39227-28-6	0.0364 JBQ	0.0284	5.80	1
11031	123678-HxCDD	57653-85-7	0.221 JBQ	0.0295	5.80	1
11031	123789-HxCDD	19408-74-3	0.342 JB	0.0291	5.80	1
11031	1234678-HpCDD	35822-46-9	1.45 JB	0.0292	5.80	1
11031	OCDD	3268-87-9	12.5 B	0.0239	11.6	1
11031	2378-TCDF	51207-31-9	0.0654 JBQ	0.0387	1.16	1
11031	12378-PeCDF	57117-41-6	0.118 JB	0.0215	5.80	1
11031	23478-PeCDF	57117-31-4	0.269 JB	0.0234	5.80	1
11031	123478-HxCDF	70648-26-9	0.188 JB	0.0343	5.80	1
11031	123678-HxCDF	57117-44-9	0.140 JB	0.0285	5.80	1
11031	123789-HxCDF	72918-21-9	0.188 JB	0.0368	5.80	1
11031	234678-HxCDF	60851-34-5	0.245 JB	0.0314	5.80	1
11031	1234678-HpCDF	67562-39-4	0.704 JB	0.0182	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0741 JB	0.0290	5.80	1
11031	OCDF	39001-02-0	1.05 JB	0.0303	11.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192776
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4411 SDG#: DX044-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-4.0-5.0

LLI Sample # SW 6192776
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4411 SDG#: DX044-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 03:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192777
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4412 SDG#: DX044-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192777
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4412 SDG#: DX044-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0103 JBQ	0.00842	1.12	1
11031	12378-PeCDD	40321-76-4	0.0524 JBQ	0.0122	5.61	1
11031	123478-HxCDD	39227-28-6	0.0204 U	0.0204	5.61	1
11031	123678-HxCDD	57653-85-7	0.610 JB	0.0209	5.61	1
11031	123789-HxCDD	19408-74-3	1.34 JB	0.0190	5.61	1
11031	1234678-HpCDD	35822-46-9	0.270 JBQ	0.0162	5.61	1
11031	OCDD	3268-87-9	0.827 JB	0.0183	11.2	1
11031	2378-TCDF	51207-31-9	0.0122 JB	0.00920	1.12	1
11031	12378-PeCDF	57117-41-6	0.0231 JBQ	0.00696	5.61	1
11031	23478-PeCDF	57117-31-4	0.0556 JBQ	0.00752	5.61	1
11031	123478-HxCDF	70648-26-9	0.0411 JB	0.0138	5.61	1
11031	123678-HxCDF	57117-44-9	0.261 JB	0.0113	5.61	1
11031	123789-HxCDF	72918-21-9	0.0961 JB	0.0138	5.61	1
11031	234678-HxCDF	60851-34-5	0.0800 JB	0.0122	5.61	1
11031	1234678-HpCDF	67562-39-4	0.213 JB	0.00819	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0337 JBQ	0.0127	5.61	1
11031	OCDF	39001-02-0	0.196 JBQ	0.0153	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Sample Description: **SL-018-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192777
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4412 SDG#: DX044-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5B-SB-9.0-10.0

LLI Sample # SW 6192777
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:20

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4412 SDG#: DX044-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 04:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192778
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4413 SDG#: DX044-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-180-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192778
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4413 SDG#: DX044-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.00984	JBQ	0.00974	1.15	1
11031	12378-PeCDD	40321-76-4	0.0235	JB	0.00997	5.73	1
11031	123478-HxCDD	39227-28-6	0.0116	U	0.0116	5.73	1
11031	123678-HxCDD	57653-85-7	0.0317	JBQ	0.0113	5.73	1
11031	123789-HxCDD	19408-74-3	0.0764	JBQ	0.0105	5.73	1
11031	1234678-HpCDD	35822-46-9	0.245	JB	0.0145	5.73	1
11031	OCDD	3268-87-9	1.11	JB	0.0206	11.5	1
11031	2378-TCDF	51207-31-9	0.00836	U	0.00836	1.15	1
11031	12378-PeCDF	57117-41-6	0.0264	JB	0.00653	5.73	1
11031	23478-PeCDF	57117-31-4	0.0595	JBQ	0.00722	5.73	1
11031	123478-HxCDF	70648-26-9	0.109	JBQ	0.0188	5.73	1
11031	123678-HxCDF	57117-44-9	0.0411	JBQ	0.0120	5.73	1
11031	123789-HxCDF	72918-21-9	0.0908	JB	0.0131	5.73	1
11031	234678-HxCDF	60851-34-5	0.0762	JBQ	0.0102	5.73	1
11031	1234678-HpCDF	67562-39-4	0.263	JB	0.0103	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0510	JB	0.0140	5.73	1
11031	OCDF	39001-02-0	0.230	JBQ	0.0184	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-180-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192778
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4413 SDG#: DX044-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-4.0-5.0

LLI Sample # SW 6192778
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 15:18

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4413 SDG#: DX044-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 05:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192779
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4414 SDG#: DX044-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192779
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4414 SDG#: DX044-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0365	JB	0.00963	1.15	1
11031	12378-PeCDD	40321-76-4	0.0264	JB	0.0115	5.73	1
11031	123478-HxCDD	39227-28-6	0.0146	JBQ	0.0141	5.73	1
11031	123678-HxCDD	57653-85-7	0.0294	JBQ	0.0144	5.73	1
11031	123789-HxCDD	19408-74-3	0.0458	JBQ	0.0141	5.73	1
11031	1234678-HpCDD	35822-46-9	0.242	JBQ	0.0155	5.73	1
11031	OCDD	3268-87-9	1.10	JB	0.0247	11.5	1
11031	2378-TCDF	51207-31-9	0.00946	JBQ	0.00894	1.15	1
11031	12378-PeCDF	57117-41-6	0.0392	JBQ	0.00711	5.73	1
11031	23478-PeCDF	57117-31-4	0.0695	JB	0.00722	5.73	1
11031	123478-HxCDF	70648-26-9	0.0617	JBQ	0.0141	5.73	1
11031	123678-HxCDF	57117-44-9	0.0661	JB	0.0111	5.73	1
11031	123789-HxCDF	72918-21-9	0.0494	JBQ	0.0139	5.73	1
11031	234678-HxCDF	60851-34-5	0.0731	JBQ	0.0110	5.73	1
11031	1234678-HpCDF	67562-39-4	0.253	JB	0.00872	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0778	JB	0.0138	5.73	1
11031	OCDF	39001-02-0	0.215	JBQ	0.0186	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192779
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4414 SDG#: DX044-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5B-SB-9.0-10.0

LLI Sample # SW 6192779
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 14:59

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4414 SDG#: DX044-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 06:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-262-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192780
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4415 SDG#: DX044-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-262-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192780
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4415 SDG#: DX044-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0982 JB	0.00936	1.14	1
11031	12378-PeCDD	40321-76-4	0.0494 JBQ	0.0100	5.71	1
11031	123478-HxCDD	39227-28-6	0.0228 JBQ	0.0124	5.71	1
11031	123678-HxCDD	57653-85-7	0.0462 JB	0.0128	5.71	1
11031	123789-HxCDD	19408-74-3	0.0489 JBQ	0.0118	5.71	1
11031	1234678-HpCDD	35822-46-9	0.366 JB	0.0176	5.71	1
11031	OCDD	3268-87-9	1.89 JB	0.0191	11.4	1
11031	2378-TCDF	51207-31-9	0.0136 JBQ	0.0106	1.14	1
11031	12378-PeCDF	57117-41-6	0.0905 JB	0.00662	5.71	1
11031	23478-PeCDF	57117-31-4	0.0994 JB	0.00788	5.71	1
11031	123478-HxCDF	70648-26-9	0.0829 JB	0.0140	5.71	1
11031	123678-HxCDF	57117-44-9	0.0577 JB	0.0103	5.71	1
11031	123789-HxCDF	72918-21-9	0.0532 JB	0.0124	5.71	1
11031	234678-HxCDF	60851-34-5	0.0899 JB	0.0113	5.71	1
11031	1234678-HpCDF	67562-39-4	0.264 JB	0.00890	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0452 JBQ	0.0146	5.71	1
11031	OCDF	39001-02-0	0.327 JB	0.0189	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-262-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192780
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4415 SDG#: DX044-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-262-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-262-SA5B-SB-4.0-5.0

LLI Sample # SW 6192780
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 11:29

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4415 SDG#: DX044-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 07:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401B	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-263-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192781
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4416 SDG#: DX044-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-263-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192781
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4416 SDG#: DX044-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0323 JBQ	0.0101	1.10	1
11031	12378-PeCDD	40321-76-4	0.0673 JBQ	0.0120	5.51	1
11031	123478-HxCDD	39227-28-6	0.0316 JB	0.0131	5.51	1
11031	123678-HxCDD	57653-85-7	0.0613 JB	0.0131	5.51	1
11031	123789-HxCDD	19408-74-3	0.0917 JB	0.0124	5.51	1
11031	1234678-HpCDD	35822-46-9	0.276 JB	0.0156	5.51	1
11031	OCDD	3268-87-9	1.78 JB	0.0232	11.0	1
11031	2378-TCDF	51207-31-9	0.0311 JBQ	0.00815	1.10	1
11031	12378-PeCDF	57117-41-6	0.123 JB	0.00738	5.51	1
11031	23478-PeCDF	57117-31-4	0.115 JB	0.00749	5.51	1
11031	123478-HxCDF	70648-26-9	0.100 JBQ	0.0172	5.51	1
11031	123678-HxCDF	57117-44-9	0.0675 JB	0.0131	5.51	1
11031	123789-HxCDF	72918-21-9	0.0751 JBQ	0.0119	5.51	1
11031	234678-HxCDF	60851-34-5	0.0906 JB	0.0106	5.51	1
11031	1234678-HpCDF	67562-39-4	0.266 JB	0.0107	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0444 JBQ	0.0124	5.51	1
11031	OCDF	39001-02-0	0.195 JB	0.0143	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-263-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192781
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4416 SDG#: DX044-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-263-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-263-SA5B-SB-2.0-3.0

LLI Sample # SW 6192781
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 09:14

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4416 SDG#: DX044-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 08:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401B	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB26-SA5B-012611 Water**
SSFL Area IV Collocated Soil Sampling
EB26-SA5B-012611

LLI Sample # WW 6192782
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 13:00

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4417 SDG#: DX044-17EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.318	U	0.318	2.02	1
10915	12378-PeCDD	40321-76-4	0.279	JBQ	0.248	10.1	1
10915	123478-HxCDD	39227-28-6	0.198	U	0.198	10.1	1
10915	123678-HxCDD	57653-85-7	0.217	JBQ	0.188	10.1	1
10915	123789-HxCDD	19408-74-3	0.195	U	0.195	10.1	1
10915	1234678-HpCDD	35822-46-9	1.75	JBQ	0.320	10.1	1
10915	OCDD	3268-87-9	4.91	JBQ	0.266	20.2	1
10915	2378-TCDF	51207-31-9	0.290	U	0.290	2.02	1
10915	12378-PeCDF	57117-41-6	0.243	JBQ	0.117	10.1	1
10915	23478-PeCDF	57117-31-4	0.409	JBQ	0.111	10.1	1
10915	123478-HxCDF	70648-26-9	0.188	JBQ	0.120	10.1	1
10915	123678-HxCDF	57117-44-9	0.146	JBQ	0.0908	10.1	1
10915	123789-HxCDF	72918-21-9	0.147	JBQ	0.123	10.1	1
10915	234678-HxCDF	60851-34-5	0.245	JBQ	0.0967	10.1	1
10915	1234678-HpCDF	67562-39-4	0.352	JBQ	0.0954	10.1	1
10915	1234789-HpCDF	55673-89-7	0.172	JBQ	0.121	10.1	1
10915	OCDF	39001-02-0	0.892	JB	0.399	20.2	1

The recoveries of several labeled compounds were outside QC limits in the method blank associated with this sample. Sufficient sample was not available to re-extract the sample.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	102	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	61	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	55	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB26-SA5B-012611 Water
SSFL Area IV Collocated Soil Sampling
EB26-SA5B-012611

LLI Sample # WW 6192782
LLI Group # 1230700
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/26/2011 13:00

Submitted: 01/27/2011 10:00
Reported: 03/08/2011 19:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4417 SDG#: DX044-17EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11039001	02/15/2011 19:23	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11039001	02/09/2011 08:00	Deborah M Zimmerman	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230700
Reported: 03/08/11 at 07:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11034162401B	Sample number(s): 6192780-6192781								
28a Moisture Content by 160.3					99		80-120		
Batch number: 11039162402A	Sample number(s): 6192773-6192779								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11035001	Sample number(s): 6192773-6192781								
2378-TCDD	0.0165 J	0.00520	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0235 J	0.00550	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0267 J	0.00720	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0315 J	0.00730	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0362 J	0.00700	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.217 J	0.00960	5.00	ng/kg	99		70-140		
OCDD	0.572 J	0.0113	10.0	ng/kg	99		78-144		
2378-TCDF	0.0175 J	0.00520	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0337 J	0.00390	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0768 J	0.00390	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0657 J	0.00960	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0499 J	0.00800	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0654 J	0.00960	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0694 J	0.00830	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.231 J	0.00730	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0469 J	0.0102	5.00	ng/kg	99		78-138		
OCDF	0.291 J	0.0113	10.0	ng/kg	98		63-170		
Batch number: 11039001	Sample number(s): 6192782								
2378-TCDD	0.388 J	0.229	2.00	pg/l	92		67-158		
12378-PeCDD	0.582 J	0.403	10.0	pg/l	94		70-142		
123478-HxCDD	0.977 J	0.629	10.0	pg/l	100		70-164		
123678-HxCDD	1.28 J	0.504	10.0	pg/l	98		76-134		
123789-HxCDD	0.498 J	0.184	10.0	pg/l	98		64-162		
1234678-HpCDD	3.54 J	0.739	10.0	pg/l	100		70-140		
OCDD	8.07 J	0.564	20.0	pg/l	108		78-144		
2378-TCDF	0.401 U	0.401	2.00	pg/l	98		75-158		
12378-PeCDF	0.581 J	0.174	10.0	pg/l	93		80-134		
23478-PeCDF	1.07 J	0.359	10.0	pg/l	89		68-160		
123478-HxCDF	1.91 J	0.712	10.0	pg/l	98		72-134		
123678-HxCDF	1.44 J	0.404	10.0	pg/l	94		84-130		
123789-HxCDF	0.762 J	0.175	10.0	pg/l	95		78-130		
234678-HxCDF	0.751 J	0.263	10.0	pg/l	95		70-156		
1234678-HpCDF	1.45 J	0.386	10.0	pg/l	101		82-122		
1234789-HpCDF	1.17 J	0.297	10.0	pg/l	100		78-138		
OCDF	6.03 J	1.53	20.0	pg/l	106		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230700
Reported: 03/08/11 at 07:24 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11034162401B	Sample number(s): 6192780-6192781					BKG: P193669			
28a Moisture Content by 160.3						10.9	10.3	5	20
Batch number: 11039162402A	Sample number(s): 6192773-6192779					BKG: P192761			
28a Moisture Content by 160.3						12.7	13.8	8	20
Batch number: 11035001	Sample number(s): 6192773-6192781 UNSPK: P197590								
2378-TCDD	92	91	67-158	1	25				
12378-PeCDD	94	92	70-142	1	25				
123478-HxCDD	94	92	70-164	2	25				
123678-HxCDD	93	92	76-134	1	25				
123789-HxCDD	93	92	64-162	2	25				
1234678-HpCDD	91	91	70-140	0	25				
OCDD	91	92	78-144	2	25				
2378-TCDF	99	97	75-158	2	25				
12378-PeCDF	90	90	80-134	1	25				
23478-PeCDF	92	92	68-160	0	25				
123478-HxCDF	95	95	72-134	0	25				
123678-HxCDF	96	93	84-130	2	25				
123789-HxCDF	96	94	78-130	2	25				
234678-HxCDF	96	96	70-156	1	25				
1234678-HpCDF	93	94	82-122	0	25				
1234789-HpCDF	94	94	78-138	1	25				
OCDF	93	93	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11035001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6192773	95	89	64	84	92	93
6192774	80	75	67	81	76	76
6192775	80	73	48	63	72	75
6192776	72	67	66	76	72	65
6192777	79	71	68	81	75	72
6192778	73	65	41	61	71	62
6192779	69	63	56	71	67	62
6192780	69	62	51	68	64	60
6192781	71	64	43	54	67	65
Blank	85	79	77	90	83	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230700
Reported: 03/08/11 at 07:24 PM

Surrogate Quality Control

MS	62	54	51	59	58	52
MSD	59	51	49	59	54	57
OPR	74	69	54	73	68	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6192773	83	85	79	103	94	90
6192774	77	68	62	93	80	81
6192775	59	72	66	86	78	71
6192776	79	59	57	82	76	78
6192777	91	67	62	87	80	82
6192778	66	57	48	81	74	68
6192779	76	55	47	87	71	72
6192780	78	57	48	83	72	74
6192781	66	64	58	83	74	74
Blank	92	77	71	103	88	88
MS	59	48	44	75	65	67
MSD	65	55	54	71	61	67
OPR	73	59	55	91	77	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6192773	90	92	93	88	91	98
6192774	82	81	80	74	77	83
6192775	75	78	79	76	76	78
6192776	78	76	76	73	64	75
6192777	82	83	82	77	69	79
6192778	74	76	75	70	64	78
6192779	74	72	74	66	62	71
6192780	73	75	75	67	61	74
6192781	75	76	80	75	67	70
Blank	90	90	91	84	76	88
MS	67	67	65	59	52	60
MSD	66	66	71	69	51	57
OPR	76	76	75	70	65	80
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11039001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6192782	68	85	47	58	55	52
Blank	82	26	11*	18*	28	48
OPR	84	98	68	80	82	85
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6192782	55	54	57	97	102	58

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230700
Reported: 03/08/11 at 07:24 PM

Surrogate Quality Control

Blank	17*	26	15*	43	54	19*
OPR	83	84	76	98	103	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6192782	61	61	61	62	65	87
Blank	25*	66	27	25	48	58
OPR	83	84	84	81	78	100
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1230700 sample# 6192773-82

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs@EPA 8260B $	*1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-015-SA5B-SB-4.5	1.26.2011	1558	soil	NONE	5-Encore samplers									X	X	X											
SL-015-SA5B-SB-4.0-5.0	1.26.2011	1602	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-016-SA5B-SB-4.5	1.26.2011	1400	soil	NONE	5-Encore samplers									X	X	X											
SL-016-SA5B-SB-4.0-5.0	1.26.2011	1404	soil	NONE	4-16 oz. jars **	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-016-SA5B-SB-9.5	1.26.2011	1410	soil	NONE	5-Encore samplers									X	X	X											
SL-016-SA5B-SB-9.0-10.0	1.26.2011	1414	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-018-SA5B-SB-4.5	1.26.2011	1117	soil	NONE	5-Encore samplers									X	X	X											
SL-018-SA5B-SB-4.0-5.0	1.26.2011	1120	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-018-SA5B-SB-9.5	1.26.2011	1124	soil	NONE	5-Encore samplers									X	X	X											
SL-018-SA5B-SB-9.0-10.0	1.26.2011	1120	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-180-SA5B-SB-4.5	1.26.2011	1515	soil	NONE	5-Encore samplers									X	X	X											
SL-180-SA5B-SB-4.0-5.0	1.26.2011	1518	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-180-SA5B-SB-9.5	1.26.2011	1455	soil	NONE	5-Encore samplers									X	X	X											
SL-180-SA5B-SB-9.0-10.0	1.26.2011	1459	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-262-SA5B-SB-4.5	1.26.2011	1128	soil	NONE	4-Encore samplers									X	X												
SL-262-SA5B-SB-4.0-5.0	1.26.2011	1129	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-263-SA5B-SB-2.5	1.26.2011	0911	soil	NONE	4-Encore samplers									X	X												
SL-263-SA5B-SB-2.0-3.0	1.26.2011	0914	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
EB26-SA5B-012611	1.26.2011	1300	water	NONE	4-1 liter amber			X	X	X																	
EB26-SA5B-012611	1.26.2011	1300	water	NONE	1-500 ml poly		X				X	X															
EB26-SA5B-012611	1.26.2011	1300	water	HNO3	1-500 ml poly	X																					Subsurface rinsate
EB26-SA5B-012611	1.26.2011	1300	water	HCl	5-40 ml VOA VIALS									X	X												Subsurface rinsate
TB-012611	1.26.2011	1830	water	HCl	4-40 mL VOA VIALS									X	X	X											Subsurface rinsate

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/27/2011 1147:00		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
Annchris H. Owen	1/27/11 1000	869514322350, 869514322361, 869514322372	No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/28/2011
Group Number: 1230848
SDG: DE070
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA5B-SB-4.0-5.0 Soil	6193662
SL-017-SA5B-SB-9.0-10.0 Soil	6193663
SL-021-SA5B-SB-4.0-5.0 Soil	6193664
SL-021-SA5B-SB-9.0-10.0 Soil	6193665
SL-181-SA5B-SB-4.0-5.0 Soil	6193666
SL-185-SA5B-SB-4.0-5.0 Soil	6193667
SL-186-SA5B-SB-4.0-5.0 Soil	6193668
SL-192-SA5B-SB-4.0-5.0 Soil	6193669
SL-203-SA5B-SB-4.0-5.0 Soil	6193670
SL-203-SA5B-SB-7.5-8.5 Soil	6193671
EB27-SA5B-012711 Water	6193672
TB-012711 Water	6193673

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Susan M Goshert

Susan M. Goshert
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7001 SDG#: DE070-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.89
06192	Methylene Chloride	75-09-2	0.42	J	0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7001 SDG#: DE070-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	96.1	U	96.1	192		5

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7001 SDG#: DE070-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.68	J	0.38	1.9		1
10138	Anthracene	120-12-7	1.9	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.3		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.3		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	8.5	J	6.9	21		1
10138	Chrysene	218-01-9	4.7		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	23		6.9	21		1

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Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7001 SDG#: DE070-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	9.3		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.1	J	6.9	21		1
10138	Phenanthrene	85-01-8	1.8	J	0.77	1.9		1
10138	Pyrene	129-00-0	7.1		0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1

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Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7001 SDG#: DE070-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.62	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C21-C30)	n.a.	28		2.3	6.9		5
10199	EFH (C30 - C40)	n.a.	78		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	12	U	12	14		1
08283	Ethylene glycol	107-21-1	13	U	13	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limits attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1

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Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E7001 SDG#: DE070-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.63	22.4		1
07914	Boron	7440-42-8	3.29	J	0.997	5.60		1
01650	Calcium	7440-70-2	9,230		6.86	22.4		1
01654	Iron	7439-89-6	20,400		5.27	22.4		1
01656	Lithium	7439-93-2	20.4		0.25	2.2		1
01657	Magnesium	7439-95-4	4,280		2.84	11.2		1
06958	Manganese	7439-96-5	266		0.0873	0.560		1
10145	Phosphorus	7723-14-0	1,460		0.627	11.2		1
01662	Potassium	7440-09-7	2,780		20.2	56.0		1
01667	Sodium	7440-23-5	705		41.8	112		1
07968	Strontium	7440-24-6	38.3		0.0694	0.560		1
06969	Tin	7440-31-5	2.15	J	1.12	11.2		1
06970	Titanium	7440-32-6	999		0.426	1.12		1
10146	Zirconium	7440-67-7	2.37	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0672	U	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.42		0.0896	0.448		2
06126	Barium	7440-39-3	67.0		0.121	0.448		2
06127	Beryllium	7440-41-7	0.454		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.177		0.0448	0.112		2
06131	Chromium	7440-47-3	12.8		0.134	0.448		2
06132	Cobalt	7440-48-4	4.13		0.0224	0.112		2
06133	Copper	7440-50-8	6.67		0.0739	0.448		2
06135	Lead	7439-92-1	4.81		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.375		0.0560	0.112		2
06139	Nickel	7440-02-0	7.51		0.112	0.448		2
06141	Selenium	7782-49-2	0.128	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0227	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.272		0.0336	0.112		2
06148	Vanadium	7440-62-2	25.7		0.0246	0.112		2
06149	Zinc	7440-66-6	59.7		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.3		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1

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Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7001 SDG#: DE070-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	422		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-017-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011	21:22	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011	02:30	Sara E Johnson	20.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011	14:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011	14:05	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	15:33	Timothy J Trees	5

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Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
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SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
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E7001 SDG#: DE070-01

Laboratory Sample Analysis Record

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04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011 13:24	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011 11:13	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 21:05	Marie D John	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:04	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 11:38	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 21:36	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 17:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 19:36	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 03:53	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 00:08	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 22:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 03:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 03:19	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 03:19	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 03:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 03:19	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 02:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2

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Sample Description: SL-017-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E7001 SDG#: DE070-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 17:38	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 17:38	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 17:38	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 17:38	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 08:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 18:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201B	02/10/2011 18:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 14:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 14:21	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:13	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193662
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7001 SDG#: DE070-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7002 SDG#: DE070-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		6.7	8.0		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.91
06192	2-Butanone	78-93-3	1.4	J	1.2	8.0		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.91
06192	Methylene Chloride	75-09-2	0.35	J	0.24	4.0		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.91

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Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7002 SDG#: DE070-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		20.1
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	201		92.4	185		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1

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Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7002 SDG#: DE070-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.0	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.4		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.8		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.1		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	3.9		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.7	20		1
10138	Fluoranthene	206-44-0	3.7		0.74	1.8		1
10138	Fluorene	86-73-7	0.77	J	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1

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Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7002 SDG#: DE070-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.76	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	3.4		0.74	1.8		1
10138	Pyrene	129-00-0	3.2		0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.59
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7002 SDG#: DE070-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	2,600		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.89	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.55	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	18		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	25		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	10	U	10	14		1
08283	Ethylene glycol	107-21-1	12	U	12	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limits attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7002 SDG#: DE070-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.41	21.5		1
07914	Boron	7440-42-8	2.43	J	0.958	5.38		1
01650	Calcium	7440-70-2	9,320		6.60	21.5		1
01654	Iron	7439-89-6	18,700		5.07	21.5		1
01656	Lithium	7439-93-2	23.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,790		2.73	10.8		1
06958	Manganese	7439-96-5	243		0.0840	0.538		1
10145	Phosphorus	7723-14-0	332		0.603	10.8		1
01662	Potassium	7440-09-7	2,750		19.4	53.8		1
01667	Sodium	7440-23-5	668		40.1	108		1
07968	Strontium	7440-24-6	23.7		0.0667	0.538		1
06969	Tin	7440-31-5	2.41	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,070		0.409	1.08		1
10146	Zirconium	7440-67-7	1.41	J	0.904	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0799	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.82		0.0887	0.443		2
06126	Barium	7440-39-3	71.3		0.120	0.443		2
06127	Beryllium	7440-41-7	0.443		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0984	J	0.0443	0.111		2
06131	Chromium	7440-47-3	12.4		0.133	0.443		2
06132	Cobalt	7440-48-4	4.59		0.0222	0.111		2
06133	Copper	7440-50-8	6.75		0.0732	0.443		2
06135	Lead	7439-92-1	4.42		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.415		0.0554	0.111		2
06139	Nickel	7440-02-0	6.94		0.111	0.443		2
06141	Selenium	7782-49-2	0.0971	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0223	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.219		0.0333	0.111		2
06148	Vanadium	7440-62-2	26.5		0.0244	0.111		2
06149	Zinc	7440-66-6	52.5		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.22	1.1		1

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Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7002 SDG#: DE070-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	376		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-017-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011	22:21	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011	02:50	Sara E Johnson	20.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011	14:09	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	15:50	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011	13:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011	12:45	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011	16:45	JoElla L Rice	1

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Sample Description: **SL-017-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
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Project Name: SSFL Area IV Collocated Soil Sampling

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E7002 SDG#: DE070-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 21:41	Marie D John	20.59
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:08	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 13:46	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 21:45	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 18:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 05:04	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 04:08	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 00:43	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 18:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 03:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 03:22	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 03:22	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 03:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 03:22	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 02:34	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 17:41	Parker D Lindstrom	2

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Sample Description: **SL-017-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7002 SDG#: DE070-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 17:41	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 17:41	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 17:41	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 08:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 18:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201B	02/10/2011 18:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 16:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 14:34	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:14	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1

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Sample Description: **SL-017-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193663
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E7002 SDG#: DE070-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Sample Description: SL-021-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.89
06192	Methylene Chloride	75-09-2	0.40	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

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Sample Description: SL-021-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.39
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	146		18.6	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1

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Sample Description: SL-021-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	8.5		0.37	1.9		1
10138	Anthracene	120-12-7	24		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	19		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	6.8		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	35		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.9		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	9.9		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	7.6	J	6.7	20		1
10138	Chrysene	218-01-9	52		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	150		0.75	1.9		1
10138	Fluorene	86-73-7	1.7	J	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.8		0.75	1.9		1

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Sample Description: SL-021-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	24		0.75	1.9		1
10138	Pyrene	129-00-0	93		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: SL-021-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.9	U	8.9	27		20
10199	EFH (C15-C20)	n.a.	8.9	U	8.9	27		20
10199	EFH (C21-C30)	n.a.	49		8.9	27		20
10199	EFH (C30 - C40)	n.a.	150		8.9	27		20
10199	EFH (C8-C11)	n.a.	8.9	U	8.9	27		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	11	U	11	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for ethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: **SL-021-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		5.46	21.7		1
07914	Boron	7440-42-8	2.22	J	0.967	5.43		1
01650	Calcium	7440-70-2	6,810		6.66	21.7		1
01654	Iron	7439-89-6	28,400		5.12	21.7		1
01656	Lithium	7439-93-2	14.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,310		2.76	10.9		1
06958	Manganese	7439-96-5	317		0.0847	0.543		1
10145	Phosphorus	7723-14-0	1,480		0.608	10.9		1
01662	Potassium	7440-09-7	3,690		19.5	54.3		1
01667	Sodium	7440-23-5	387		40.5	109		1
07968	Strontium	7440-24-6	37.4		0.0673	0.543		1
06969	Tin	7440-31-5	1.75	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230		0.413	1.09		1
10146	Zirconium	7440-67-7	0.912	U	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.37		0.0895	0.447		2
06126	Barium	7440-39-3	136		0.121	0.447		2
06127	Beryllium	7440-41-7	0.327		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.139		0.0447	0.112		2
06131	Chromium	7440-47-3	12.7		0.134	0.447		2
06132	Cobalt	7440-48-4	6.21		0.0224	0.112		2
06133	Copper	7440-50-8	11.8		0.0738	0.447		2
06135	Lead	7439-92-1	3.73		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.688		0.0559	0.112		2
06139	Nickel	7440-02-0	8.19		0.112	0.447		2
06141	Selenium	7782-49-2	2.61		0.0447	0.447		2
06142	Silver	7440-22-4	0.0185	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.314		0.0336	0.112		2
06148	Vanadium	7440-62-2	40.3		0.0246	0.112		2
06149	Zinc	7440-66-6	61.2		0.626	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	418		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.24		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011	22:44	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011	03:09	Sara E Johnson	20.39
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011	14:13	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	16:07	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011	14:14	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011	13:16	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011	16:45	JoElla L Rice	1

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Sample Description: SL-021-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11027A34B	01/28/2011 22:18	Marie D John	21.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:12	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 14:28	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 21:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 19:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 20:01	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 04:22	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 01:18	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 19:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 03:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 03:26	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 03:26	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 03:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 03:26	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 02:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 17:50	Parker D Lindstrom	2

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Sample Description: SL-021-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 17:50	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 17:50	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 17:50	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 19:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201B	02/10/2011 19:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 16:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 14:46	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201A	02/08/2011 17:15	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201A	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1

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Sample Description: **SL-021-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193664
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7003 SDG#: DE070-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Sample Description: SL-021-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193665
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7004 SDG#: DE070-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	19		6.5	7.7		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.86
06192	2-Butanone	78-93-3	1.9	J	1.2	7.7		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.86
06192	Methylene Chloride	75-09-2	0.52	J	0.23	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

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Sample Description: SL-021-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193665
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7004 SDG#: DE070-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.86
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		20
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	426		93.3	187		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	82	J	19	190		1
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	97	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Chrysene	218-01-9	44	J	19	190		1
04688	Dibenzofuran	132-64-9	64	J	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1

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SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193665
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E7004 SDG#: DE070-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluorene	86-73-7	68	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	1-Methylnaphthalene	90-12-0	23	J	19	190		1
04688	2-Methylnaphthalene	91-57-6	22	J	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenanthrene	85-01-8	77	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	21	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	0.41	J	0.37	1.9		1
10138	Anthracene	120-12-7	1.4	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193665
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E7004 SDG#: DE070-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	170		6.7	20		1
10138	Fluoranthene	206-44-0	3.8		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	3.1		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.53
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	9,800		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	2.3		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.90	U	0.90	2.7		2
10199	EFH (C15-C20)	n.a.	3.9		0.90	2.7		2
10199	EFH (C21-C30)	n.a.	22		0.90	2.7		2
10199	EFH (C30 - C40)	n.a.	55		0.90	2.7		2
10199	EFH (C8-C11)	n.a.	0.90	U	0.90	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	420	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	11	U	11	14		1
08283	Ethylene glycol	107-21-1	12	U	12	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limits attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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E7004 SDG#: DE070-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.52	22.0		1
07914	Boron	7440-42-8	3.27	J	0.977	5.49		1
01650	Calcium	7440-70-2	5,360		6.73	22.0		1
01654	Iron	7439-89-6	19,200		5.17	22.0		1
01656	Lithium	7439-93-2	22.3		0.24	2.2		1
01657	Magnesium	7439-95-4	4,000		2.79	11.0		1
06958	Manganese	7439-96-5	286		0.0856	0.549		1
10145	Phosphorus	7723-14-0	391		0.615	11.0		1
01662	Potassium	7440-09-7	2,950		19.8	54.9		1
01667	Sodium	7440-23-5	423		41.0	110		1
07968	Strontium	7440-24-6	22.9		0.0681	0.549		1
06969	Tin	7440-31-5	2.04	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,100		0.417	1.10		1
10146	Zirconium	7440-67-7	2.09	J	0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0665	U	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.00		0.0887	0.443		2
06126	Barium	7440-39-3	88.0		0.120	0.443		2
06127	Beryllium	7440-41-7	0.468		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.180		0.0443	0.111		2
06131	Chromium	7440-47-3	15.3		0.133	0.443		2
06132	Cobalt	7440-48-4	4.63		0.0222	0.111		2
06133	Copper	7440-50-8	8.46		0.0732	0.443		2
06135	Lead	7439-92-1	5.35		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.757		0.0554	0.111		2
06139	Nickel	7440-02-0	9.32		0.111	0.443		2
06141	Selenium	7782-49-2	0.127	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0384	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.203		0.0333	0.111		2
06148	Vanadium	7440-62-2	30.1		0.0244	0.111		2
06149	Zinc	7440-66-6	57.5		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.22	1.1		1

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SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193665
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	318		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	10.5		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011	23:06	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011	03:29	Sara E Johnson	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011	14:16	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	16:24	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011	12:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011	13:47	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011	16:45	JoElla L Rice	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-021-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193665
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7004 SDG#: DE070-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11031A34A	01/31/2011 13:10	Elizabeth J Marin	20.53
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:15	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 15:10	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 22:04	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 19:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 20:26	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 04:37	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 03:02	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 20:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 03:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 03:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 03:30	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 03:30	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 03:30	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 02:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 17:53	Parker D Lindstrom	2

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Sample Description: SL-021-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193665
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7004 SDG#: DE070-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 17:53	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 17:53	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 17:53	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 19:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201B	02/10/2011 19:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 17:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11039243201A	02/10/2011 15:05	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201B	02/08/2011 17:16	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201B	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1

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Sample Description: **SL-021-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193665
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7004 SDG#: DE070-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-181-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7005 SDG#: DE070-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.3		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.91
06192	Methylene Chloride	75-09-2	0.46	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-181-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7005 SDG#: DE070-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	150		19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-181-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7005 SDG#: DE070-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-181-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7005 SDG#: DE070-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	320	U	320	320	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7005 SDG#: DE070-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported for 1,3-dinitrobenzene represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	10	U	10	14		1
08283	Ethylene glycol	107-21-1	11	U	11	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limits attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7005 SDG#: DE070-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		5.54	22.0		1
07914	Boron	7440-42-8	1.11	J	0.980	5.51		1
01650	Calcium	7440-70-2	3,910		6.75	22.0		1
01654	Iron	7439-89-6	29,600		25.9	110		5
01656	Lithium	7439-93-2	33.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,010		2.80	11.0		1
06958	Manganese	7439-96-5	357		0.0859	0.551		1
10145	Phosphorus	7723-14-0	152		0.617	11.0		1
01662	Potassium	7440-09-7	1,680		19.8	55.1		1
01667	Sodium	7440-23-5	222		41.1	110		1
07968	Strontium	7440-24-6	36.0		0.0683	0.551		1
06969	Tin	7440-31-5	2.72	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,320		0.419	1.10		1
10146	Zirconium	7440-67-7	2.47	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.94		0.0881	0.441		2
06126	Barium	7440-39-3	132		0.119	0.441		2
06127	Beryllium	7440-41-7	0.871		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0975	J	0.0441	0.110		2
06131	Chromium	7440-47-3	27.7		0.132	0.441		2
06132	Cobalt	7440-48-4	6.40		0.0220	0.110		2
06133	Copper	7440-50-8	9.56		0.0727	0.441		2
06135	Lead	7439-92-1	6.57		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.270		0.0551	0.110		2
06139	Nickel	7440-02-0	17.6		0.110	0.441		2
06141	Selenium	7782-49-2	0.0548	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0717	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.285		0.0330	0.110		2
06148	Vanadium	7440-62-2	45.3		0.0242	0.110		2
06149	Zinc	7440-66-6	57.5		0.617	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

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Sample Description: SL-181-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E7005 SDG#: DE070-05

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.57		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	408		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.27		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-181-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011	23:29	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011	03:49	Sara E Johnson	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:20	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011	14:20	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	16:41	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011	14:39	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011	14:18	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011	16:45	JoElla L Rice	1

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E7005 SDG#: DE070-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11031A34A	01/31/2011 14:24	Elizabeth J Marin	21.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:19	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 15:53	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 22:14	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 19:39	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 00:55	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 04:52	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 03:37	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 14:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 03:34	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 03:34	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	2	110285708004	02/08/2011 16:11	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 03:34	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 03:34	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 02:46	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 17:57	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-181-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7005 SDG#: DE070-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 17:57	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 17:57	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 17:57	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 08:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 20:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201B	02/10/2011 20:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 17:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 15:11	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201B	02/08/2011 17:20	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201B	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1

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Sample Description: **SL-181-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193666
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7005 SDG#: DE070-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-185-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7006 SDG#: DE070-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.9	J	6.7	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.88
06192	Methylene Chloride	75-09-2	0.31	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7006 SDG#: DE070-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.01
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	151		19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	38	J	19	190		1
04688	Benzo(a)pyrene	50-32-8	32	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	34	J	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	19	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	43	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

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Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7006 SDG#: DE070-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	380		1
04688	Fluoranthene	206-44-0	68	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenanthrene	85-01-8	57	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	84	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	J	6.9	21		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: SL-185-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7006 SDG#: DE070-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-185-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7006 SDG#: DE070-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	3.6	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.78	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	11	U	11	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for ethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7006 SDG#: DE070-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		5.70	22.7		1
07914	Boron	7440-42-8	1.82	J	1.01	5.66		1
01650	Calcium	7440-70-2	3,450		6.94	22.7		1
01654	Iron	7439-89-6	24,900		5.34	22.7		1
01656	Lithium	7439-93-2	25.1		0.25	2.3		1
01657	Magnesium	7439-95-4	4,880		2.88	11.3		1
06958	Manganese	7439-96-5	283		0.0884	0.566		1
10145	Phosphorus	7723-14-0	408		0.634	11.3		1
01662	Potassium	7440-09-7	2,840		20.4	56.6		1
01667	Sodium	7440-23-5	109	J	42.3	113		1
07968	Strontium	7440-24-6	25.9		0.0702	0.566		1
06969	Tin	7440-31-5	2.19	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,260		0.430	1.13		1
10146	Zirconium	7440-67-7	2.21	J	0.952	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0996	J	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.08		0.0915	0.458		2
06126	Barium	7440-39-3	131		0.124	0.458		2
06127	Beryllium	7440-41-7	0.700		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.209		0.0458	0.114		2
06131	Chromium	7440-47-3	22.7		0.137	0.458		2
06132	Cobalt	7440-48-4	6.46		0.0229	0.114		2
06133	Copper	7440-50-8	9.95		0.0755	0.458		2
06135	Lead	7439-92-1	7.59		0.0119	0.229		2
06138	Molybdenum	7439-98-7	1.01		0.0572	0.114		2
06139	Nickel	7440-02-0	12.1		0.114	0.458		2
06141	Selenium	7782-49-2	0.139	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0568	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.296		0.0343	0.114		2
06148	Vanadium	7440-62-2	39.2		0.0252	0.114		2
06149	Zinc	7440-66-6	53.0		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.127		0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.9		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.8		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.1		1

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Sample Description: SL-185-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7006 SDG#: DE070-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	420		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-185-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/28/2011	23:51	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011	04:09	Sara E Johnson	22.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011	14:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011	14:24	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	16:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011	15:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011	14:49	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011	16:45	JoElla L Rice	1

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SL-185-SA5B-SB-4.0-5.0

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E7006 SDG#: DE070-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11031A34A	01/31/2011 15:00	Elizabeth J Marin	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:24	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 16:35	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 22:33	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 19:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 02:35	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 05:06	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 04:12	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 15:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 03:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 03:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 03:42	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 03:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 03:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 02:50	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 18:00	Parker D Lindstrom	2

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Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
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E7006 SDG#: DE070-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 18:00	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 18:00	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 18:00	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 08:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 20:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201B	02/10/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 18:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11039243201A	02/10/2011 15:30	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201B	02/08/2011 17:21	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201B	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193667
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7006 SDG#: DE070-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-186-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193668
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7007 SDG#: DE070-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.0	U	6.0	7.2		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.8
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.8
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.8
06192	Bromomethane	74-83-9	0.22	U	0.22	3.6		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.2		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.8
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.8
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.6		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.8
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.8
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.8
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63	U	0.63	3.6		0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.8
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.8
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.6		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.8
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.6		0.8
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.8
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.8
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.6		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.8
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.8
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.8
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.8
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.2		0.8
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.8
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.2		0.8
06192	Methylene Chloride	75-09-2	0.34	J	0.22	3.6		0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.8

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Sample Description: SL-186-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193668
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7007 SDG#: DE070-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.8
06192	Toluene	108-88-3	0.07	U	0.07	3.6		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.8
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.6		0.8
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.8
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.8
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.2	U	4.2	13		18.97
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193668
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7007 SDG#: DE070-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.9	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193668
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7007 SDG#: DE070-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		5.39	21.4		1
07914	Boron	7440-42-8	0.999	J	0.954	5.36		1
01650	Calcium	7440-70-2	4,780		6.57	21.4		1
01654	Iron	7439-89-6	25,200		5.05	21.4		1
01656	Lithium	7439-93-2	30.5		0.24	2.1		1
01657	Magnesium	7439-95-4	4,740		2.72	10.7		1
06958	Manganese	7439-96-5	136		0.0836	0.536		1
10145	Phosphorus	7723-14-0	82.6		0.600	10.7		1
01662	Potassium	7440-09-7	1,430		19.3	53.6		1
01667	Sodium	7440-23-5	941		40.0	107		1
07968	Strontium	7440-24-6	36.3		0.0665	0.536		1
06969	Tin	7440-31-5	2.39	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,090		0.407	1.07		1
10146	Zirconium	7440-67-7	2.63	J	0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0741	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.13		0.0874	0.437		2
06126	Barium	7440-39-3	65.1		0.118	0.437		2
06127	Beryllium	7440-41-7	0.772		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0649	J	0.0437	0.109		2
06131	Chromium	7440-47-3	22.2		0.131	0.437		2
06132	Cobalt	7440-48-4	3.71		0.0219	0.109		2
06133	Copper	7440-50-8	7.98		0.0721	0.437		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193668
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7007 SDG#: DE070-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	5.96	0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.218	0.0546	0.109		2
06139	Nickel	7440-02-0	11.2	0.109	0.437		2
06141	Selenium	7782-49-2	0.0732 J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0558 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.267	0.0328	0.109		2
06148	Vanadium	7440-62-2	37.3	0.0240	0.109		2
06149	Zinc	7440-66-6	39.9	0.612	3.28		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	14.7	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	425	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.32	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-186-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-186-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193668
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7007 SDG#: DE070-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/29/2011 00:14	Chelsea B Eastep	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110312AA	02/01/2011 04:29	Sara E Johnson	18.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011 14:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011 14:27	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011 15:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011 15:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 20:16	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 03:46	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 03:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 03:46	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 03:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 03:46	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 02:54	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 18:03	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-186-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193668
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7007 SDG#: DE070-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 18:03	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 18:03	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 18:03	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 20:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 18:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11039243201A	02/10/2011 15:42	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11031182101B	01/31/2011 10:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039402B	01/31/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401B	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-192-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193669
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7008 SDG#: DE070-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.85
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.85
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.85
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.85
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.85
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.85
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.85
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.85
06192	Methylene Chloride	75-09-2	0.39	J	0.23	3.8		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.85

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-192-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193669
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7008 SDG#: DE070-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.76
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-192-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193669
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7008 SDG#: DE070-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.9	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1

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Sample Description: SL-192-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193669
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7008 SDG#: DE070-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.43	21.6		1
07914	Boron	7440-42-8	0.960	U	0.960	5.40		1
01650	Calcium	7440-70-2	2,560		6.62	21.6		1
01654	Iron	7439-89-6	24,900		5.08	21.6		1
01656	Lithium	7439-93-2	24.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,280		2.74	10.8		1
06958	Manganese	7439-96-5	188		0.0842	0.540		1
10145	Phosphorus	7723-14-0	187		0.604	10.8		1
01662	Potassium	7440-09-7	1,550		19.4	54.0		1
01667	Sodium	7440-23-5	308		40.3	108		1
07968	Strontium	7440-24-6	23.5		0.0669	0.540		1
06969	Tin	7440-31-5	2.68	J	1.08	10.8		1
06970	Titanium	7440-32-6	996		0.410	1.08		1
10146	Zirconium	7440-67-7	2.12	J	0.907	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.72		0.0880	0.440		2
06126	Barium	7440-39-3	81.2		0.119	0.440		2
06127	Beryllium	7440-41-7	0.754		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0785	J	0.0440	0.110		2
06131	Chromium	7440-47-3	23.0		0.132	0.440		2
06132	Cobalt	7440-48-4	3.89		0.0220	0.110		2
06133	Copper	7440-50-8	5.50		0.0726	0.440		2

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Sample Description: SL-192-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193669
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7008 SDG#: DE070-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	5.30	0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.377	0.0550	0.110		2
06139	Nickel	7440-02-0	11.7	0.110	0.440		2
06141	Selenium	7782-49-2	0.167 J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0699 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.166	0.0330	0.110		2
06148	Vanadium	7440-62-2	37.5	0.0242	0.110		2
06149	Zinc	7440-66-6	39.4	0.616	3.30		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	410	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-192-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-192-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193669
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7008 SDG#: DE070-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110281AA	01/29/2011 00:51	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 13:45	Jason M Long	20.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:29	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011 14:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011 14:30	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011 15:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011 15:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 20:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 03:50	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 03:50	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 03:50	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 03:50	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 03:50	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 02:58	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 18:06	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2

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Sample Description: SL-192-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193669
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7008 SDG#: DE070-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 18:06	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 18:06	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 18:06	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 21:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 18:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 15:48	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401B	02/03/2011 19:45	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-203-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193670
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7009 SDG#: DE070-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.2		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.9
06192	Methylene Chloride	75-09-2	0.67	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-203-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193670
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7009 SDG#: DE070-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.46
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	103		19.4	38.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200		1

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SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193670
LLI Group # 1230848
Account # 13013

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E7009 SDG#: DE070-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.89	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.93	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

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E7009 SDG#: DE070-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.85
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	87	U	87	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported for 1,3-dinitrobenzene represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	5.6		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	2.0		0.38	2.0		1
10225	PCB-1260	11096-82-5	2.6		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	1.3	J	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	3.5		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	12	U	12	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for ethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-203-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193670
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7009 SDG#: DE070-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.73	22.8		1
07914	Boron	7440-42-8	2.50	J	1.01	5.70		1
01650	Calcium	7440-70-2	3,080		6.99	22.8		1
01654	Iron	7439-89-6	22,800		5.37	22.8		1
01656	Lithium	7439-93-2	23.6		0.25	2.3		1
01657	Magnesium	7439-95-4	4,170		2.90	11.4		1
06958	Manganese	7439-96-5	315		0.0889	0.570		1
10145	Phosphorus	7723-14-0	262		0.638	11.4		1
01662	Potassium	7440-09-7	3,040		20.5	57.0		1
01667	Sodium	7440-23-5	83.7	J	42.5	114		1
07968	Strontium	7440-24-6	26.6		0.0707	0.570		1
06969	Tin	7440-31-5	2.33	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,190		0.433	1.14		1
10146	Zirconium	7440-67-7	2.71	J	0.958	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.81		0.0912	0.456		2
06126	Barium	7440-39-3	109		0.123	0.456		2
06127	Beryllium	7440-41-7	0.683		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.181		0.0456	0.114		2
06131	Chromium	7440-47-3	21.4		0.137	0.456		2
06132	Cobalt	7440-48-4	6.00		0.0228	0.114		2
06133	Copper	7440-50-8	10.7		0.0752	0.456		2
06135	Lead	7439-92-1	19.6		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.816		0.0570	0.114		2
06139	Nickel	7440-02-0	13.2		0.114	0.456		2
06141	Selenium	7782-49-2	0.111	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0719	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.286		0.0342	0.114		2
06148	Vanadium	7440-62-2	37.3		0.0251	0.114		2
06149	Zinc	7440-66-6	52.2		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0058	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.23	1.2		1

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Sample Description: SL-203-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193670
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7009 SDG#: DE070-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	426		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-203-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/01/2011	20:52	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011	14:05	Jason M Long	20.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011	14:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011	14:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011	14:33	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011	17:14	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011	16:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011	16:22	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011	16:45	JoElla L Rice	1

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Sample Description: SL-203-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193670
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7009 SDG#: DE070-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11031A34A	01/31/2011 15:37	Elizabeth J Marin	22.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:32	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 17:18	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 22:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 22:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 03:00	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 05:35	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 04:47	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 16:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 04:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 04:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 04:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 04:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 04:01	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 03:02	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 18:09	Parker D Lindstrom	2

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Sample Description: SL-203-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193670
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7009 SDG#: DE070-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/11/2011 16:33	David K Beck	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 18:09	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 18:09	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 18:09	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 09:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 21:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201B	02/10/2011 21:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 19:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11039243201A	02/10/2011 16:13	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201B	02/08/2011 17:22	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201B	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-203-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193670
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7009 SDG#: DE070-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.97
06192	Methylene Chloride	75-09-2	0.65	J	0.26	4.4		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.97

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Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.97
06192	Toluene	108-88-3	0.09	J	0.09	4.4		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.0	U	6.0	18		26.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	177		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		25.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	11	U	11	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Due to interfering peaks on the chromatogram, the value reported for ethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.54	22.0		1
07914	Boron	7440-42-8	1.56	J	0.981	5.51		1
01650	Calcium	7440-70-2	3,880		6.76	22.0		1
01654	Iron	7439-89-6	29,400		5.19	22.0		1
01656	Lithium	7439-93-2	31.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,440		2.80	11.0		1
06958	Manganese	7439-96-5	180		0.0860	0.551		1
10145	Phosphorus	7723-14-0	284		0.617	11.0		1
01662	Potassium	7440-09-7	1,540		19.8	55.1		1
01667	Sodium	7440-23-5	227		41.1	110		1
07968	Strontium	7440-24-6	29.8		0.0683	0.551		1
06969	Tin	7440-31-5	2.61	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,400		0.419	1.10		1
10146	Zirconium	7440-67-7	2.75	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.275		0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.78		0.0899	0.450		2
06126	Barium	7440-39-3	109		0.121	0.450		2
06127	Beryllium	7440-41-7	0.835		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0651	J	0.0450	0.112		2
06131	Chromium	7440-47-3	28.4		0.135	0.450		2
06132	Cobalt	7440-48-4	7.53		0.0225	0.112		2
06133	Copper	7440-50-8	12.2		0.0742	0.450		2
06135	Lead	7439-92-1	7.96		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.325		0.0562	0.112		2
06139	Nickel	7440-02-0	19.5		0.112	0.450		2
06141	Selenium	7782-49-2	0.0880	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0596	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.463		0.0337	0.112		2
06148	Vanadium	7440-62-2	42.8		0.0247	0.112		2
06149	Zinc	7440-66-6	61.1		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0040	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.23	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	454		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.86		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-203-SA5B-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/01/2011 21:14	Laura M Krieger	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 14:25	Jason M Long	26.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:37	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102823592	01/28/2011 14:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102823592	01/28/2011 14:37	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011 17:31	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11032SLF026	02/04/2011 16:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11032SLE026	02/03/2011 16:53	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1

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Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E7010 SDG#: DE070-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11032SLE026	02/02/2011 03:55	David V Hershey Jr	1
00381	BNA Soil Sonication	SW-846 3550B	1	11032SLF026	02/02/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11031A34A	01/31/2011 16:13	Elizabeth J Marin	25.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102823592	01/28/2011 14:34	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 18:00	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 22:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110340005A	02/04/2011 22:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110340005A	02/03/2011 14:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 01:20	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 05:50	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 05:22	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 17:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110285708004	02/04/2011 02:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110285708004	02/04/2011 02:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110285708004	02/04/2011 02:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110285708004	02/04/2011 02:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110285708004	02/04/2011 02:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110285708004	02/03/2011 01:59	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110281026001D	02/10/2011 17:19	Parker D Lindstrom	2

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Sample Description: SL-203-SA5B-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110281026001C	02/10/2011 17:19	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110281026001B	02/10/2011 17:19	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110281026001A	02/10/2011 17:19	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110285711002	01/31/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110285708004	01/30/2011 20:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110281026001	01/30/2011 20:41	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110285711002	01/30/2011 22:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621201B	02/10/2011 21:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621201B	02/10/2011 21:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11038621202B	02/08/2011 19:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11039243201A	02/10/2011 16:32	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201B	02/08/2011 17:26	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621201B	02/09/2011 12:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11038621202B	02/07/2011 13:55	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201B	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1

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Sample Description: **SL-203-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193671
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7010 SDG#: DE070-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11039243201A	02/08/2011 11:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7011 SDG#: DE070-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7011 SDG#: DE070-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	4	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.48		1.18	2.35		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.7 ng/l. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to limited sample volume.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	6		1
04678	Benzidine	92-87-5	22	U	22	66		1
04678	Benzoic acid	65-85-0	7	U	7	17		1
04678	Benzyl alcohol	100-51-6	6	U	6	17		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6		1
04678	Carbazole	86-74-8	1	U	1	6		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6		1
04678	4-Chloroaniline	106-47-8	1	U	1	6		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6		1
04678	2-Chlorophenol	95-57-8	1	U	1	6		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6		1
04678	Dibenzofuran	132-64-9	1	U	1	6		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7011 SDG#: DE070-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6		1
04678	Hexachlorobenzene	118-74-1	1	U	1	6		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6		1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17		1
04678	Hexachloroethane	67-72-1	1	U	1	6		1
04678	Isophorone	78-59-1	1	U	1	6		1
04678	2-Methylphenol	95-48-7	1	U	1	6		1
04678	4-Methylphenol	106-44-5	2	U	2	6		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	6		1
04678	3-Nitroaniline	99-09-2	1	U	1	6		1
04678	4-Nitroaniline	100-01-6	1	U	1	6		1
04678	Nitrobenzene	98-95-3	1	U	1	6		1
04678	2-Nitrophenol	88-75-5	1	U	1	6		1
04678	4-Nitrophenol	100-02-7	11	U	11	33		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	17		1
04678	Phenol	108-95-2	1	U	1	6		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-chloroaniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.054		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.054		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.054		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.054		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.054		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.054		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.054		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.054		1

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Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7011 SDG#: DE070-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Butylbenzylphthalate	85-68-7	0.054	U	0.054	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.60	J	0.054	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.054		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.054		1
10137	Diethylphthalate	84-66-2	0.21	J	0.054	1.1		1
10137	Dimethylphthalate	131-11-3	0.054	U	0.054	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.054	U	0.054	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.054		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.054		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.054		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.054		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.054		1
10137	Naphthalene	91-20-3	0.025	J	0.011	0.054		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.054		1
10137	Di-n-octylphthalate	117-84-0	0.054	U	0.054	1.1		1
10137	Phenanthrene	85-01-8	0.013	J	0.011	0.054		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.054		1

Di-n-butylphthalate was detected in the method blank at a concentration of .14 ug/l. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.70	U	0.70	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1

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Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7011 SDG#: DE070-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.7	U	1.7	1.7	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	Due to interfering peaks on the chromatogram, the values reported for HMX and RDX represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	17b Formaldehyde by 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.54		1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.54		1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.54		1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.54		1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.54		1
10227	PCB-1232	11141-16-5	0.22	U	0.22	0.54		1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.54		1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.54		1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.54		1
10227	PCB-1260	11096-82-5	0.11	U	0.11	0.54		1
10227	PCB-1262	37324-23-5	0.22	U	0.22	0.54		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.54		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7011 SDG#: DE070-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	17	U	17	100		1
08278	Ethylene glycol	107-21-1	17	U	17	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.
Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limits attainable.
The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.083	U	0.083	0.26		1
10319	o-Terphenyl	84-15-1	0.083	U	0.083	0.26		1
10319	p-Terphenyl	92-94-4	0.083	U	0.083	0.26		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1

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Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7011 SDG#: DE070-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199 The holding time was not met.	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	21b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	5.4	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110341AA	02/03/2011 13:57	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110311AA	01/31/2011 13:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110311AA	01/31/2011 13:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110341AA	02/03/2011 13:57	Nicholas R Rossi	1
10962	19b NDMA by 1625C	EPA 1625C	1	11032WAB026	02/07/2011 11:50	Timothy J Trees	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11032WAA026	02/04/2011 00:53	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11029WAB026	02/03/2011 08:07	Joseph M Gambler	1

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Sample Description: EB27-SA5B-012711 Water
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E7011 SDG#: DE070-11EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	11032WAA026	02/01/2011 11:30	Olivia I Santiago	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11029WAB026	01/30/2011 14:30	Elaine F Stoltzfus	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11032WAB026	02/01/2011 17:00	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11031B20A	01/31/2011 20:49	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11031B20A	01/31/2011 20:49	Butch A Sokolowski	1
10131	20b Energetics by 8330A	SW-846 8330A	1	110320004A	02/04/2011 00:21	Michele D Hamilton	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	110290012A	01/31/2011 19:59	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110310016A	02/03/2011 16:32	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110310016A	02/01/2011 00:30	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110290012A	01/30/2011 13:00	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	110320004A	02/01/2011 15:00	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110310019A	02/02/2011 00:47	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	110320019A	02/01/2011 20:24	Tyler O Griffin	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	110330023A	02/05/2011 04:06	Dustin A Underkoffler	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	110310018A	02/01/2011 18:56	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	110310019A	02/01/2011 00:30	Sherry L Morrow	1
10304	Terphenyls water prep	SW-846 3510C	1	110310018A	02/01/2011 00:30	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
08068	Strontium	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	110311848005	02/02/2011 03:03	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06025	Arsenic	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06026	Barium	SW-846 6020	1	110316050002D	02/08/2011 09:01	David K Beck	1
06027	Beryllium	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06028	Cadmium	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06031	Chromium	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06032	Cobalt	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06033	Copper	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06035	Lead	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110316050002C	02/08/2011 09:01	David K Beck	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB27-SA5B-012711 Water
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193672
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7011 SDG#: DE070-11EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06039	Nickel	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06041	Selenium	SW-846 6020	1	110316050002B	02/08/2011 09:01	David K Beck	1
06042	Silver	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06045	Thallium	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06048	Vanadium	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
06049	Zinc	SW-846 6020	1	110316050002A	02/08/2011 09:01	David K Beck	1
00259	Mercury	SW-846 7470A	1	110315713002	02/01/2011 12:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110311848005	02/01/2011 08:47	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110316050002	02/01/2011 08:44	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110315713002	01/31/2011 15:50	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11028196602C	02/01/2011 19:42	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11028196602C	01/28/2011 23:33	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11040621701A	02/09/2011 12:40	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11028196401A	01/28/2011 14:00	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	11040117101B	02/09/2011 17:39	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11040117101B	02/09/2011 10:35	Nancy J Shoop	1
00200	22b pH by 9040B	SW-846 9040B	1	11039020002A	02/08/2011 15:25	Michele L Graham	1

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Analysis Report

Sample Description: TB-012711 Water
SSFL Area IV Collocated Soil Sampling
TB-012711

LLI Sample # WW 6193673
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 16:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7012 SDG#: DE070-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-012711 Water**
SSFL Area IV Collocated Soil Sampling
TB-012711

LLI Sample # WW 6193673
LLI Group # 1230848
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 16:30

Submitted: 01/28/2011 09:35
Reported: 02/15/2011 18:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7012 SDG#: DE070-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110331AA	02/02/2011	15:16	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110311AA	01/31/2011	13:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110311AA	01/31/2011	13:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110331AA	02/02/2011	15:16	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11031B20A	01/31/2011	21:10	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	11031B20A	01/31/2011	21:10	Butch A Sokolowski	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110281AA	Sample number(s): 6193662-6193669									
Acetone	6.7	U	6.7	8.0	ug/kg	182	174	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	97	102	80-120	5	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	91	95	79-120	5	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	106	105	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93	95	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	106	105	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	75	79	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	128	124	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	88	93	72-120	6	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	84	90	75-120	7	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	80	86	75-120	7	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102	105	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97	101	80-120	4	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	69	71	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	84	85	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	102	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	68	77	54-132	12	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	95	78-120	6	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	95	79-120	5	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	91	87	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	87	85	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102	102	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	102	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	102	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97	99	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92	95	78-120	3	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94	97	79-120	4	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	67	71	20-120	6	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	93	99	80-120	6	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98	97	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	98	105	73-123	6	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	104	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99	105	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	95	80-120	3	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	93	94	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	106	72-123	5	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	89	95	77-120	6	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	81	84	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	82	85	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	89	95	80-120	7	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	106	61-126	5	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	93	90	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91	95	57-120	5	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	82	81	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88	94	76-120	6	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	87	92	75-120	6	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	97	98	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69	68	61-134	1	30
Methylene Chloride	0.42	J	0.24	4.0	ug/kg	93	95	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	89	94	77-120	6	30
Styrene	0.10	U	0.10	4.0	ug/kg	95	98	76-120	3	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	105	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	89	90	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	106	114	77-120	7	30
Toluene	0.11	J	0.08	4.0	ug/kg	96	101	80-120	5	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	89	93	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	83	84	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99	103	71-125	5	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102	101	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	95	100	80-120	5	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87	90	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	95	96	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	89	93	79-120	5	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	87	92	78-120	5	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	74	80	53-120	8	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	97	101	80-120	5	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	85	91	80-120	6	30
Batch number: B110321AA	Sample number(s): 6193670-6193671									
Acetone	6.7	U	6.7	8.0	ug/kg	149	134	32-209	11	30
Benzene	0.10	U	0.10	4.0	ug/kg	104	108	80-120	4	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	89	89	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103	105	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	101	102	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	110	106	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	98	98	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	123	112	46-153	10	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98	102	72-120	4	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	90	95	75-120	5	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	84	89	75-120	6	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	112	116	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	104	107	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	94	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	90	87	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	107	110	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	98	99	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	92	95	78-120	4	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93	96	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69	69	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	108	101	58-120	8	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	111	110	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	108	108	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	109	106	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	100	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	90	93	78-120	3	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	93	96	79-120	3	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	75	79	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108	110	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	110	109	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	116	118	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	111	113	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	105	108	80-120	3	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	109	108	80-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	115	117	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	101	106	77-120	5	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91	92	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99	101	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98	102	80-120	4	30
Freon 113	0.11	U	0.11	4.0	ug/kg	121	123	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	93	94	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89	91	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	87	81	45-155	7	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	98	76-120	4	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	94	98	75-120	4	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	113	107	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	89	82	61-134	7	30
Methylene Chloride	0.96	J	0.24	4.0	ug/kg	110	109	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	98	102	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	100	103	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	110	114	80-120	3	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	106	100	71-123	6	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107	113	77-120	5	30
Toluene	0.25	J	0.08	4.0	ug/kg	102	107	80-120	5	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	85	87	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	76	78	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	105	107	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	109	110	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	102	80-120	4	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	104	106	58-133	2	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	100	71-123	5	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	92	97	79-120	5	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92	97	78-120	5	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	95	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104	109	80-120	4	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	91	95	80-120	4	30
Batch number: E110311AA	Sample number(s): 6193672-6193673									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	103		60-132		
Batch number: E110312AA	Sample number(s): 6193662-6193668									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	101	113	70-130	12	30
Batch number: E110321AA	Sample number(s): 6193669-6193671									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	112	115	70-130	3	30
Batch number: Y110331AA	Sample number(s): 6193673									
Acetone	6	U	6.	20	ug/l	144	140	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	103	103	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	109	111	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	103	101	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	107	106	80-120	1	30
Bromoform	1	U	1.	5	ug/l	110	111	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	117	113	44-120	4	30
2-Butanone	3	U	3.	10	ug/l	113	112	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	110	107	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	112	110	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	107	104	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	99	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	106	105	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	119	120	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	101	56-129	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chloroform	0.8	U	0.8	5	ug/l	106	103	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	123	127	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	111	111	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	110	109	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	96	95	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	124*	119	66-120	4	30
Dibromochloromethane	1	U	1.	5	ug/l	110	108	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	113	111	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	107	106	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	105	103	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	109	106	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	107	106	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	103	99	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	104	102	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	108	106	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	112	106	74-123	5	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	105	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	103	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	111	111	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	102	100	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	101	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	102	102	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	109	106	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	106	105	79-120	1	30
Freon 113	2	U	2.	10	ug/l	113	109	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	94	96	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	98	98	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	119	118	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	104	105	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	113	110	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	109	107	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	110	113	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	126*	122*	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	114	111	80-120	3	30
Styrene	1	U	1.	5	ug/l	106	108	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	107	109	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	116	116	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	100	98	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	106	105	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	112	112	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	110	108	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	88	87	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	113	111	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	101	101	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	107	106	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	118	118	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	114	111	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	111	110	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	105	105	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	105	106	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	104	106	80-120	2	30
Batch number: Y110341AA	Sample number(s): 6193672									
Acetone	6	U	6.	20	ug/l	111	116	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	98	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	107	103	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	104	102	80-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bromodichloromethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Bromoform	1	U	1.	5	ug/l	101	101	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	116	113	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	97	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	104	102	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	95	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	116	114	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	98	100	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	102	101	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	122	118	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	102	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	103	103	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	89	90	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	105	106	66-120	0	30
Dibromochloromethane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	102	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	102	100	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	98	98	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	101	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	99	93	47-120	6	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	97	79-120	3	30
1,2-Dichloroethane	1	U	1.	5	ug/l	106	103	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	104	101	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	98	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	94	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	97	95	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	95	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	100	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	98	79-120	0	30
Freon 113	2	U	2.	10	ug/l	104	99	69-128	5	30
Freon 133a	2	U	2.	5	ug/l	92	90	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	90	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	97	99	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	101	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	101	100	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	96	98	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	111	110	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	104	102	80-120	1	30
Styrene	1	U	1.	5	ug/l	101	100	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	103	105	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	96	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	104	104	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	101	101	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	88	85	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	102	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	97	95	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	108	104	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	110	109	80-120	1	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	104	104	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	104	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	102	99	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
Batch number: 11029WAB026	Sample number(s): 6193672									
Acenaphthene	0.010	U	0.010	0.050	ug/l	105	99	74-109	6	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	103	103	70-110	0	30
Anthracene	0.010	U	0.010	0.050	ug/l	106	108	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	104	104	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	103	103	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	103	115	69-123	11	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	96	97	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	106	96	59-130	11	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	85	40-138	1	30
Di-n-butylphthalate	0.14	J	0.050	1.0	ug/l	122	122	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	99	100	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	105	105	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	113	116	57-134	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	79	82	40-119	4	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	110	111	57-154	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	105	107	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	106	104	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	98	99	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	105	104	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	95	93	75-115	2	30
Naphthalene	0.010	U	0.010	0.050	ug/l	96	96	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	54	69	36-89	25	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	108	107	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	100	104	76-111	4	30
Pyrene	0.010	U	0.010	0.050	ug/l	90	90	69-118	0	30
Batch number: 11031SLB026	Sample number(s): 6193662-6193667,6193670-6193671									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	101		70-130		
Batch number: 11032SLE026	Sample number(s): 6193662-6193671									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	87		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	129		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	94		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	122		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	106		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	125		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	106		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	89		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	103		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	100		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	126		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		56-121		
Batch number: 11032SLF026	Sample number(s): 6193662-6193671									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Aniline	170 U		170.	500	ug/kg	87		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	66		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	105		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	102		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	106		61-127		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	102		67-125		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	62		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	97		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	94		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	105		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	80		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	103		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	85		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	106		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	91		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methylphenol	33	U	33.	170	ug/kg	111		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	93		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	96		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	90		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	103		58-112		
Pyrene	17	U	17.	170	ug/kg	112		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11032WAA026	Sample number(s): 6193672									
Aniline	1	U	1.	5	ug/l	51	60	49-101	16	30
Benzidine	20	U	20.	60	ug/l	44	56	34-117	25	30
Benzoic acid	6	U	6.	15	ug/l	36	41	10-69	15	30
Benzyl alcohol	5	U	5.	15	ug/l	81	80	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	93	98	82-117	5	30
Carbazole	1	U	1.	5	ug/l	94	98	81-114	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	86	88	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	35*	46	42-124	27	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	88	91	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	90	90	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	89	90	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	85	90	54-132	7	30
2-Chlorophenol	1	U	1.	5	ug/l	90	92	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	95	82-111	4	30
Dibenzofuran	1	U	1.	5	ug/l	92	94	83-108	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	88	89	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	87	89	50-119	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	89	93	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	59	66	49-111	11	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	90	93	80-109	3	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	87	90	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	92	96	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	85	93	78-119	9	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	70	75	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	92	95	81-115	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	90	91	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	98	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	95	100	81-118	4	30
Hexachlorobutadiene	1	U	1.	5	ug/l	88	92	57-124	4	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	68	67	36-118	1	30
Hexachloroethane	1	U	1.	5	ug/l	84	89	52-113	6	30
Isophorone	1	U	1.	5	ug/l	87	90	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	82	83	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	79	79	61-103	0	30
2-Nitroaniline	1	U	1.	5	ug/l	88	92	83-116	4	30
3-Nitroaniline	1	U	1.	5	ug/l	83	88	74-113	5	30
4-Nitroaniline	1	U	1.	5	ug/l	72	74	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	89	94	75-109	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	1	U	1.	5	ug/l	88	93	86-120	5	30
4-Nitrophenol	10	U	10.	30	ug/l	44	44	16-78	1	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	86	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	90	95	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	81	85	53-110	5	30
Phenol	1	U	1.	5	ug/l	46	44	21-67	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	94	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	95	79-107	5	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	95	95	81-113	0	30
Batch number: 11032WAB026	Sample number(s): 6193672									
N-Nitrosodimethylamine	1.70		0.500	1.00	ng/l	105	100	70-130	5	30
Batch number: 11027A34B	Sample number(s): 6193662-6193664									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	73	67-119	1	30
Batch number: 11031A34A	Sample number(s): 6193665-6193667,6193670-6193671									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80	72	67-119	11	30
Batch number: 11031B20A	Sample number(s): 6193672-6193673									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	91	75-135	18	30
Batch number: 110320004A	Sample number(s): 6193672									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	100	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	117	75-125	9	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	117	75-125	9	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	97	65-125	3	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	98	96	75-121	2	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	98	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	98	97	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	113	113	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	97	96	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	87	87	33-147	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	96	95	53-129	1	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 110320005A	Sample number(s): 6193662-6193667,6193670-6193671									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	97	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	97	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	108		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	105		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	108		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	92		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	105		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	106		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	104		80-120		
PETN	800	U	800.	2,400	ug/kg	113		80-120		
RDX	50	U	50.	120	ug/kg	108		75-131		
Tetryl	61	U	61.	120	ug/kg	90		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	109		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110290012A	Sample number(s): 6193672									
17b Formaldehyde by 8315A	10	U	10.	50	ug/l	98	98	69-130	0	30
Batch number: 110310008A	Sample number(s): 6193662-6193667,6193670-6193671									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	105		80-126		
Batch number: 110310016A	Sample number(s): 6193672									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	60*	68*	75-125	13	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	102	68-119	8	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	104	116	68-121	11	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110340005A	Sample number(s): 6193662-6193671									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	59*	60*	75-125	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	73		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	90		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110310019A	Sample number(s): 6193672									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	92	90	60-120	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	104	104	60-120	0	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	100	60-120	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	107	107	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	74	72	60-120	3	30
Batch number: 110330006A	Sample number(s): 6193662-6193667,6193670-6193671									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	69		66-113		
Batch number: 110310025A	Sample number(s): 6193662-6193667,6193670-6193671									

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethanol	100 U		100.	500	ug/kg	100		75-112		
Isopropanol	100 U		100.	500	ug/kg	107		75-125		
Methanol	100 U		100.	500	ug/kg	100		75-134		
Batch number: 110320019A	Sample number(s): 6193672									
Ethanol	200 U		200.	1,000	ug/l	104		66-132		
Isopropanol	200 U		200.	1,000	ug/l	108		75-125		
Methanol	200 U		200.	1,000	ug/l	104		77-137		
Batch number: 110330022A	Sample number(s): 6193662-6193667,6193670-6193671									
Diethylene glycol	11	U	11.	13	mg/kg	93		75-125		
Ethylene glycol	13	U	13.	13	mg/kg	89		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	103		75-125		
Batch number: 110330023A	Sample number(s): 6193672									
Diethylene glycol	15	U	15.	100	mg/l	100		78-126		
Ethylene glycol	14	U	14.	100	mg/l	95		80-124		
Propylene glycol	10	U	10.	100	mg/l	95		80-120		
Batch number: 110310018A	Sample number(s): 6193672									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	100	100	75-125	0	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	100	100	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	88	84	75-125	5	20
Batch number: 110320016A	Sample number(s): 6193662-6193667,6193670-6193671									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	86		75-125		
Batch number: 110281026001A	Sample number(s): 6193662-6193671									
Antimony	0.0600	U	0.0600	0.200	mg/kg	108		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	100		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	107		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	113		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	103		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		78-122		
Batch number: 110281026001B	Sample number(s): 6193662-6193671									
Selenium	0.0400	U	0.0400	0.400	mg/kg	108		79-122		
Batch number: 110281026001C	Sample number(s): 6193662-6193671									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	113		78-122		
Batch number: 110281026001D	Sample number(s): 6193662-6193671									
Barium	0.108	U	0.108	0.400	mg/kg	106		79-121		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110285708004	Sample number(s): 6193662-6193671								
Aluminum	5.03 U	5.03	20.0	mg/kg	92		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	95		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	101		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	105		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	1.06 J	0.560	10.0	mg/kg	102		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	99		78-110		
Sodium	37.3 U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	101		79-121		
Tin	1.09 J	1.00	10.0	mg/kg	97		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	96		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110285711002	Sample number(s): 6193662-6193671								
Mercury	0.0028 U	0.0028	0.0987	mg/kg	102		88-123		
Batch number: 110311848005	Sample number(s): 6193672								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	96	90-112	0	20
Boron	0.0138 U	0.0138	0.0500	mg/l	93	94	90-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	101	100	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	98	98	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	96	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	100	100	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99	98	80-120	0	20
Potassium	0.239 U	0.239	0.500	mg/l	100	98	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	99	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	99	98	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	100	99	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	100	80-120	1	20
Batch number: 110315713002	Sample number(s): 6193672								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	103	104	80-120	1	20
Batch number: 110316050002A	Sample number(s): 6193672								
Antimony	0.00030 U	0.00030	0.0010	mg/l	107	111*	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	103	105	86-111	2	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	105	105	90-112	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	107	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	107	103	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	103	100	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	105	102	90-113	3	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	105	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	110	106	90-113	4	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	105	104	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	100	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	106	103	80-120	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	103	106	80-120	3	20
Batch number: 110316050002B	Sample number(s): 6193672								

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	103	85-114	3	20
Batch number: 110316050002C	Sample number(s): 6193672								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	80-120	1	20
Batch number: 110316050002D	Sample number(s): 6193672								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	102	88-113	2	20
Batch number: 11028196401A	Sample number(s): 6193672								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	105	103	90-110	2	20
Batch number: 11028196602C	Sample number(s): 6193672								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	101	102	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	102	108	90-110	5	20
Batch number: 11038621202B	Sample number(s): 6193662-6193671								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11039102201A	Sample number(s): 6193662-6193664								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	108		80-120		
Batch number: 11039102201B	Sample number(s): 6193665-6193667,6193670-6193671								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	108		80-120		
Batch number: 11039243201A	Sample number(s): 6193662-6193671								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11040117101B	Sample number(s): 6193672								
21b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	95	95	90-110	0	20
Batch number: 11040621201B	Sample number(s): 6193662-6193671								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11040621701A	Sample number(s): 6193672								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	93	85-115	3	20
Batch number: 11031039402B	Sample number(s): 6193662-6193668								
22a pH by 9045C					100		95-105		
Batch number: 11031039403A	Sample number(s): 6193669-6193671								
22a pH by 9045C					100		99-101		
Batch number: 11031182101B	Sample number(s): 6193662-6193668								
32a OR Potential					99		98-102		
Batch number: 11031182102A	Sample number(s): 6193669-6193671								
32a OR Potential					100		98-102		
Batch number: 11039020002A	Sample number(s): 6193672								
22b pH by 9040B					100		99-101		
Batch number: 11034162401B	Sample number(s): 6193668-6193669								
28a Moisture Content by 160.3					99		80-120		
Batch number: 11039162402A	Sample number(s): 6193662								
28a Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11042162401A	Sample number(s): 6193663-6193667,6193670-6193671								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110281AA	Sample number(s): 6193662-6193669 UNSPK: P192758								
Acetone	149		15-210						
Benzene	105		55-143						
Bromobenzene	99		43-139						
Bromochloromethane	104		60-137						
Bromodichloromethane	95		53-136						
Bromoform	97		38-124						
Bromomethane	75		42-168						
2-Butanone	99		37-163						
n-Butylbenzene	87		30-146						
sec-Butylbenzene	91		33-157						
tert-Butylbenzene	87		41-152						
Carbon Tetrachloride	114		45-153						
Chlorobenzene	105		49-135						
Chloroethane	69		39-152						
2-Chloroethyl Vinyl Ether	73		32-139						
Chloroform	107		61-142						
Chloromethane	75		51-163						
2-Chlorotoluene	100		42-146						
4-Chlorotoluene	100		39-145						
1,2-Dibromo-3-chloropropane	72		30-139						
Dibromochloromethane	101		51-128						
1,2-Dibromoethane	95		54-129						
Dibromomethane	98		57-130						
1,2-Dichlorobenzene	96		36-133						
1,3-Dichlorobenzene	96		34-134						
1,4-Dichlorobenzene	95		35-136						
Dichlorodifluoromethane	75		26-151						
1,1-Dichloroethane	101		63-142						
1,2-Dichloroethane	97		68-131						
1,1-Dichloroethene	111		61-149						
cis-1,2-Dichloroethene	105		60-136						
trans-1,2-Dichloroethene	112		59-142						
1,2-Dichloropropane	95		62-135						
1,3-Dichloropropane	92		58-129						
2,2-Dichloropropane	109		53-147						
1,1-Dichloropropene	100		54-145						
cis-1,3-Dichloropropene	78		51-131						
trans-1,3-Dichloropropene	82		49-129						
Ethylbenzene	99		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	60		10-155						
2-Hexanone	68		32-160						
Isopropylbenzene	94		38-144						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p-Isopropyltoluene	91		29-152						
Methyl Tertiary Butyl Ether	84		55-129						
4-Methyl-2-pentanone	54		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	101		39-157						
Styrene	98		35-134						
1,1,1,2-Tetrachloroethane	111		52-130						
1,1,2,2-Tetrachloroethane	84		40-152						
Tetrachloroethene	163*		42-149						
Toluene	106		50-146						
1,2,3-Trichlorobenzene	57		10-140						
1,2,4-Trichlorobenzene	56		10-136						
1,1,1-Trichloroethane	110		64-142						
1,1,2-Trichloroethane	102		54-139						
Trichloroethene	106		53-144						
Trichlorofluoromethane	97		47-163						
1,2,3-Trichloropropane	90		45-154						
1,2,4-Trimethylbenzene	95		37-149						
1,3,5-Trimethylbenzene	96		38-150						
Vinyl Chloride	80		50-154						
m+p-Xylene	106		44-137						
o-Xylene	91		42-137						
Batch number: B110321AA	Sample number(s): 6193670-6193671 UNSPK: P194573								
Acetone	111		15-210						
Benzene	91		55-143						
Bromobenzene	66		43-139						
Bromochloromethane	96		60-137						
Bromodichloromethane	90		53-136						
Bromoform	89		38-124						
Bromomethane	99		42-168						
2-Butanone	90		37-163						
n-Butylbenzene	53		30-146						
sec-Butylbenzene	51		33-157						
tert-Butylbenzene	53		41-152						
Carbon Tetrachloride	100		45-153						
Chlorobenzene	81		49-135						
Chloroethane	91		39-152						
2-Chloroethyl Vinyl Ether	65		32-139						
Chloroform	98		61-142						
Chloromethane	92		51-163						
2-Chlorotoluene	61		42-146						
4-Chlorotoluene	62		39-145						
1,2-Dibromo-3-chloropropane	77		30-139						
Dibromochloromethane	97		51-128						
1,2-Dibromoethane	91		54-129						
Dibromomethane	93		57-130						
1,2-Dichlorobenzene	71		36-133						
1,3-Dichlorobenzene	62		34-134						
1,4-Dichlorobenzene	66		35-136						
Dichlorodifluoromethane	82		26-151						
1,1-Dichloroethane	99		63-142						
1,2-Dichloroethane	100		68-131						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1-Dichloroethene	110		61-149						
cis-1,2-Dichloroethene	89		60-136						
trans-1,2-Dichloroethene	98		59-142						
1,2-Dichloropropane	94		62-135						
1,3-Dichloropropane	93		58-129						
2,2-Dichloropropane	102		53-147						
1,1-Dichloropropene	86		54-145						
cis-1,3-Dichloropropene	72		51-131						
trans-1,3-Dichloropropene	80		49-129						
Ethylbenzene	69		44-141						
Freon 113	116		56-156						
Hexachlorobutadiene	46		10-155						
2-Hexanone	59		32-160						
Isopropylbenzene	57		38-144						
p-Isopropyltoluene	52		29-152						
Methyl Tertiary Butyl Ether	90		55-129						
4-Methyl-2-pentanone	63		46-139						
Methylene Chloride	96		61-141						
n-Propylbenzene	63		39-157						
Styrene	73		35-134						
1,1,1,2-Tetrachloroethane	93		52-130						
1,1,2,2-Tetrachloroethane	84		40-152						
Tetrachloroethene	78		42-149						
Toluene	84		50-146						
1,2,3-Trichlorobenzene	56		10-140						
1,2,4-Trichlorobenzene	45		10-136						
1,1,1-Trichloroethane	95		64-142						
1,1,2-Trichloroethane	98		54-139						
Trichloroethene	83		53-144						
Trichlorofluoromethane	110		47-163						
1,2,3-Trichloropropane	81		45-154						
1,2,4-Trimethylbenzene	59		37-149						
1,3,5-Trimethylbenzene	58		38-150						
Vinyl Chloride	94		50-154						
m+p-Xylene	74		44-137						
o-Xylene	62		42-137						
Batch number: E110311AA	Sample number(s): 6193672-6193673 UNSPK: P192973								
1,4-Dioxane	125	99	50-150	15	30				
Batch number: 11031SLB026	Sample number(s): 6193662-6193667,6193670-6193671 UNSPK: P192757								
N-Nitrosodimethylamine	89	78	70-130	11	30				
Batch number: 11032SLE026	Sample number(s): 6193662-6193671 UNSPK: 6193662								
Acenaphthene	101	107*	63-105	6	30				
Acenaphthylene	105	108	67-114	3	30				
Anthracene	97	107	60-122	9	30				
Benzo(a)anthracene	103	111	59-128	7	30				
Benzo(a)pyrene	103	108	45-138	4	30				
Benzo(b)fluoranthene	112	120	43-155	6	30				
Benzo(g,h,i)perylene	86	78	33-141	9	30				
Benzo(k)fluoranthene	92	96	42-144	4	30				
Butylbenzylphthalate	122	177*	57-173	37*	30				

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Quality Control Summary

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Reported: 02/15/11 at 06:39 PM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-butylphthalate	105	111	65-148	5	30				
Chrysene	92	101	48-134	9	30				
Dibenz(a,h)anthracene	101	97	22-133	4	30				
Diethylphthalate	129	128	70-136	1	30				
Dimethylphthalate	50*	60*	74-118	9	30				
Bis(2-Ethylhexyl)phthalate	121	117	39-167	3	30				
Fluoranthene	84	91	26-166	6	30				
Fluorene	109	109	66-122	0	30				
Indeno(1,2,3-cd)pyrene	92	87	21-143	6	30				
1-Methylnaphthalene	106	106	72-123	0	30				
2-Methylnaphthalene	97	97	64-103	0	30				
Naphthalene	98	98	61-102	0	30				
N-Nitrosodimethylamine	78	78	48-113	1	30				
Di-n-octylphthalate	98	111	40-192	9	30				
Phenanthrene	93	100	12-165	7	30				
Pyrene	83	82	15-153	1	30				
Batch number: 11032SLF026	Sample number(s): 6193662-6193671 UNSPK: 6193665								
Acenaphthene	90	87	75-115	3	30				
Aniline	80	75	35-95	7	30				
Benzidine	61	64	35-141	5	30				
Benzo(a)anthracene	102	103	65-122	1	30				
Benzo(a)pyrene	100	100	57-126	0	30				
Benzo(b)fluoranthene	100	99	59-125	2	30				
Benzo(k)fluoranthene	97	94	56-132	2	30				
Benzoic acid	41	12	10-173	112*	30				
Benzyl alcohol	97	94	67-115	4	30				
4-Bromophenyl-phenylether	109	109	67-129	0	30				
Carbazole	89	85	64-120	4	30				
4-Chloro-3-methylphenol	93	89	76-110	4	30				
4-Chloroaniline	61	62	23-95	1	30				
bis(2-Chloroethoxy)methane	90	90	75-104	0	30				
bis(2-Chloroethyl)ether	90	88	60-116	3	30				
bis(2-Chloroisopropyl)ether	90	89	55-142	1	30				
2-Chloronaphthalene	82	81	50-141	2	30				
2-Chlorophenol	97	97	73-121	0	30				
4-Chlorophenyl-phenylether	95	94	80-109	0	30				
Chrysene	104	103	62-128	1	30				
Dibenzofuran	91	90	71-112	1	30				
1,2-Dichlorobenzene	84	82	66-108	2	30				
1,3-Dichlorobenzene	79	78	63-109	2	30				
1,4-Dichlorobenzene	81	79	70-100	2	30				
3,3'-Dichlorobenzidine	94	98	16-119	4	30				
2,4-Dichlorophenol	98	96	78-117	2	30				
2,4-Dimethylphenol	96	94	78-110	1	30				
3,5-Dimethylphenol	100	97	70-130	3	30				
4,6-Dinitro-2-methylphenol	51	39	24-116	27	30				
2,4-Dinitrophenol	38	26	20-143	37*	30				
2,4-Dinitrotoluene	93	89	73-113	4	30				
2,6-Dinitrotoluene	94	93	69-123	1	30				
1,2-Diphenylhydrazine	109	109	71-129	0	30				
bis(2-Ethylhexyl)phthalate	105	104	63-122	0	30				
Fluoranthene	88	84	73-112	5	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	90	87	77-111	3	30				
Hexachlorobenzene	103	102	77-114	0	30				
Hexachlorobutadiene	88	88	62-120	0	30				
Hexachlorocyclopentadiene	37	37	10-153	0	30				
Hexachloroethane	76	76	57-109	1	30				
Isophorone	91	91	73-102	0	30				
1-Methylnaphthalene	93	90	73-112	4	30				
2-Methylnaphthalene	87	85	76-114	3	30				
2-Methylphenol	99	98	75-111	2	30				
4-Methylphenol	104	100	71-111	4	30				
2-Nitroaniline	98	96	67-125	2	30				
3-Nitroaniline	90	86	59-122	4	30				
4-Nitroaniline	76	68	52-112	11	30				
Nitrobenzene	91	91	72-106	0	30				
2-Nitrophenol	92	92	74-115	0	30				
4-Nitrophenol	81	76	54-113	7	30				
N-Nitroso-di-n-propylamine	91	90	60-116	2	30				
N-Nitrosodiphenylamine	107	107	86-145	1	30				
Pentachlorophenol	75	72	28-127	4	30				
Phenanthrene	92	91	65-125	1	30				
Phenol	99	97	58-126	1	30				
Pyrene	108	111	74-126	2	30				
1,2,4-Trichlorobenzene	90	90	72-115	1	30				
2,4,5-Trichlorophenol	96	94	78-109	1	30				
2,4,6-Trichlorophenol	98	96	77-115	1	30				
Batch number: 110320005A	Sample number(s): 6193662-6193667,6193670-6193671 UNSPK: P192756								
4-Amino-2,6-Dinitrotoluene	110	111	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	111	112	80-137	1	50				
1,3-Dinitrobenzene	110	111	38-166	1	50				
2,4-Dinitrotoluene	108	109	80-131	1	50				
2,6-Dinitrotoluene	112	110	80-127	1	50				
HMX	101	100	63-128	1	50				
Nitrobenzene	110	113	80-125	3	50				
Nitroglycerin	101	102	80-120	0	50				
2-Nitrotoluene	108	108	80-122	0	50				
3-Nitrotoluene	108	109	72-119	1	50				
4-Nitrotoluene	107	106	80-125	0	50				
PETN	117	118	80-121	1	50				
RDX	105	106	75-129	0	50				
Tetryl	81	78	55-174	4	50				
1,3,5-Trinitrobenzene	111	111	82-126	1	50				
2,4,6-Trinitrotoluene	108	109	82-130	1	50				
Batch number: 110310008A	Sample number(s): 6193662-6193667,6193670-6193671 UNSPK: P192756								
17a Formaldehyde by 8315A	103	93	80-120	10	50				
Batch number: 110340005A	Sample number(s): 6193662-6193671 UNSPK: 6193662								
PCB-1016	83	74	29-146	11	50				
PCB-1260	99	87	39-149	14	50				
Batch number: 110330006A	Sample number(s): 6193662-6193667,6193670-6193671 UNSPK: P192756								
EFH (C12-C14)	82	85	49-123	3	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C15-C20)	114	155*	49-123	24*	20				
EFH (C21-C30)	182 (2)	903 (2)	49-123	56*	20				
EFH (C30 - C40)	470 (2)	2351 (2)	49-123	69*	20				
EFH (C8-C11)	77	64	49-123	18	20				
Batch number: 110310025A	Sample number(s): 6193662-6193667,6193670-6193671 UNSPK: P192761								
Ethanol	82	82	24-143	0	20				
Isopropanol	89	89	75-125	0	20				
Methanol	83	82	45-136	1	20				
Batch number: 110320019A	Sample number(s): 6193672 UNSPK: P194071								
Ethanol	100	100	69-125	0	20				
Isopropanol	108	108	75-125	0	20				
Methanol	100	100	61-131	0	20				
Batch number: 110330022A	Sample number(s): 6193662-6193667,6193670-6193671 UNSPK: 6193662								
Diethylene glycol	85	79	59-109	7	20				
Ethylene glycol	87	81	63-107	7	20				
Propylene glycol	97	91	63-107	6	20				
Batch number: 110320016A	Sample number(s): 6193662-6193667,6193670-6193671 UNSPK: 6193662								
m-Terphenyl	85	84	75-125	1	20				
o-Terphenyl	88	97	75-125	10	20				
p-Terphenyl	72*	75	75-125	3	20				
Batch number: 110281026001A	Sample number(s): 6193662-6193671 UNSPK: 6193671 BKG: 6193671								
Antimony	41*	51*	75-125	14	20	0.242	0.245	1 (1)	20
Arsenic	289*	228*	75-125	10	20	7.74	9.15	17	20
Beryllium	103	92	75-125	7	20	0.735	0.743	1	20
Cadmium	103	108	75-125	3	20	0.0573 J	0.0729 J	24* (1)	20
Chromium	152*	105	75-125	13	20	25.0	26.3	5	20
Cobalt	88	80	75-125	10	20	6.63	6.78	2	20
Copper	133*	115	75-125	9	20	10.7	11.6	8	20
Lead	168*	92	75-125	21*	20	7.01	6.70	5	20
Nickel	155*	91	75-125	22*	20	17.2	18.0	5	20
Silver	100	102	75-125	1	20	0.0525 J	0.0519 J	1 (1)	20
Thallium	99	104	75-125	1	20	0.408	0.409	0 (1)	20
Vanadium	202*	133*	75-125	13	20	37.7	40.0	6	20
Zinc	220 (2)	130 (2)	75-125	13	20	53.8	54.8	2	20
Batch number: 110281026001B	Sample number(s): 6193662-6193671 UNSPK: 6193671 BKG: 6193671								
Selenium	82	84	75-125	0	20	0.0776 J	0.0607 J	24* (1)	20
Batch number: 110281026001C	Sample number(s): 6193662-6193671 UNSPK: 6193671 BKG: 6193671								
Molybdenum	98	98	75-125	2	20	0.286	0.313	9 (1)	20
Batch number: 110281026001D	Sample number(s): 6193662-6193671 UNSPK: 6193671 BKG: 6193671								
Barium	652 (2)	334 (2)	75-125	22*	20	96.3	91.0	6	20
Batch number: 110285708004	Sample number(s): 6193662-6193671 UNSPK: 6193671 BKG: 6193671								
Aluminum	3391 (2)	2636 (2)	75-125	6	20	17,000	18,800	10	20

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Boron	90	92	84-115	4	20	1.38	J	0.884	J	44* (1)	20
Calcium	376 (2)	339 (2)	75-125	2	20	3,420		3,640		6	20
Iron	10886 (2)	8119 (2)	75-125	7	20	25,900		27,900		7	20
Lithium	107	105	82-114	1	20	28.1		29.4		5	20
Magnesium	1245 (2)	1134 (2)	75-125	2	20	4,790		5,040		5	20
Manganese	354*	296*	75-125	8	20	158		165		4	20
Phosphorus	143*	169*	75-125	7	20	250		216		15	20
Potassium	181*	172*	75-125	2	20	1,360		1,270		7	20
Sodium	104	102	75-125	0	20	200		216		8 (1)	20
Strontium	106	101	75-115	2	20	26.3		29.5		12	20
Tin	80	80	80-110	3	20	2.30	J	2.05	J	11 (1)	20
Titanium	784 (2)	527 (2)	75-125	13	20	1,230		1,210		2	20
Zirconium	96	96	75-125	2	20	2.42	J	2.99	J	21* (1)	20
Batch number: 110285711002	Sample number(s): 6193662-6193671 UNSPK: 6193671 BKG: 6193671										
Mercury	105	102	65-135	4	20	0.0035	J	0.0028	U	200* (1)	20
Batch number: 11038621202B	Sample number(s): 6193662-6193671 UNSPK: 6193662 BKG: 6193662										
7a Perchlorate EPA 314.0	104		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11039102201A	Sample number(s): 6193662-6193664 UNSPK: P192756 BKG: P192756										
21a Cyanide by 9012B	103		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11039102201B	Sample number(s): 6193665-6193667,6193670-6193671 UNSPK: 6193665 BKG: 6193665										
21a Cyanide by 9012B	102		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11039243201A	Sample number(s): 6193662-6193671 UNSPK: P192756 BKG: P192756										
3a Cr VI by EPA 7199	93		75-125			0.28	J	0.26	J	6 (1)	20
Batch number: 11040621201B	Sample number(s): 6193662-6193671 UNSPK: 6193662 BKG: 6193662										
11a Anions by 300.0 - Fluoride	86		80-120			3.9		3.5		13 (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			5.4		4.9		11 (1)	20
Batch number: 11031039402B	Sample number(s): 6193662-6193668 BKG: P192761										
22a pH by 9045C						7.55		7.56		0	1
Batch number: 11031039403A	Sample number(s): 6193669-6193671 BKG: 6193669										
22a pH by 9045C						6.50		6.50		0	1
Batch number: 11031182101B	Sample number(s): 6193662-6193668 BKG: P192761										
32a OR Potential						350		356		2	6
Batch number: 11031182102A	Sample number(s): 6193669-6193671 BKG: 6193669										
32a OR Potential						410		410		0	6
Batch number: 11039020002A	Sample number(s): 6193672 BKG: P199079										
22b pH by 9040B						8.5		8.5		0	1
Batch number: 11034162401B	Sample number(s): 6193668-6193669 BKG: 6193669										
28a Moisture Content by 160.3						10.9		10.3		5	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11039162402A	Sample number(s): 6193662				BKG: P192761				
28a Moisture Content by 160.3						12.7	13.8	8	20
Batch number: 11042162401A	Sample number(s): 6193663-6193667,6193670-6193671				BKG: P194575				
28a Moisture Content by 160.3						12.2	12.1	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110281AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6193662	113	106	96	79
6193663	115	109	96	77
6193664	116	110	95	81
6193665	115	108	96	79
6193666	115	108	95	79
6193667	117	112	95	82
6193668	118	110	94	79
6193669	119	115	94	78
Blank	113	109	96	83
LCS	105	107	101	100
LCSD	103	102	101	100
MS	103	100	105	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110321AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6193670	116	112	101	86
6193671	115	107	103	87
Blank	114	109	101	85
LCS	105	107	108	106
LCSD	104	106	109	106
MS	105	101	111	108
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110311AA

	Toluene-d8
6193672	97
6193673	97
Blank	97

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Surrogate Quality Control

LCS	97
MS	96
MSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110312AA

	Toluene-d8
6193662	95
6193663	96
6193664	95
6193665	96
6193666	95
6193667	95
6193668	94
Blank	96
LCS	96
LCSD	96
Limits:	70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110321AA

	Toluene-d8
6193669	94
6193670	95
6193671	95
Blank	95
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6193673	99	99	99	95
Blank	98	101	99	95
LCS	99	101	100	97
LCSD	98	99	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6193672	100	100	97	95
Blank	101	100	99	96
LCS	100	102	99	97
LCSD	100	99	100	97
Limits:	86-118	80-120	88-110	86-115

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Surrogate Quality Control

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11029WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6193672	117	82	92
Blank	101	83	92
LCS	114	85	91
LCSD	114	86	93
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11031SLB026

	N-Nitrosodimethylamine-d6
6193662	577*
6193663	566*
6193664	95
6193665	587*
6193666	76
6193667	81
6193670	117
6193671	61
Blank	77
LCS	65
MS	97
MSD	96
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11032SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6193662	130	94	85
6193663	125	96	87
6193664	118	89	73
6193665	125	91	75
6193666	115	83	100
6193667	118	83	99
6193668	117	85	96
6193669	119	87	94
6193670	112	83	91
6193671	115	83	91
Blank	116	86	98
LCS	119	83	98
MS	136*	95	95
MSD	130	95	96
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11032SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Surrogate Quality Control

6193662	90	92	79	81	89	100
6193663	84	86	77	74	82	90
6193664	88	91	78	85	92	96
6193665	93	93	73	82	88	91
6193666	86	88	70	81	86	95
6193667	94	97	81	89	97	97
6193668	90	91	76	85	88	95
6193669	88	90	74	82	88	94
6193670	87	88	76	82	87	91
6193671	88	92	76	84	90	94
Blank	92	94	96	86	89	94
LCS	97	98	97	88	90	98
MS	94	95	86	87	93	97
MSD	93	95	80	88	94	101
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11032WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6193672	61	38	89	87	92	90
Blank	60	38	88	85	91	92
LCS	64	42	90	86	90	87
LCSD	64	40	92	90	93	90
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 19b NDMA by 1625C
Batch number: 11032WAB026

	N-Nitrosodimethylamine-d6
6193672	109
Blank	73
LCS	78
LCSD	95
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11027A34B

	Trifluorotoluene-F
6193662	80
6193663	81
6193664	80
Blank	84
LCS	88
LCSD	86
Limits:	61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11031A34A

	Trifluorotoluene-F

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Surrogate Quality Control

6193665	73
6193666	72
6193667	72
6193670	75
6193671	82
Blank	78
LCS	99
LCSD	89
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11031B20A

	Trifluorotoluene-F
6193672	68
6193673	69
Blank	68
LCS	99
LCSD	98
Limits:	63-135

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 110290012A

	Butyraldehyde
6193672	102
Blank	98
LCS	100
LCSD	96
Limits:	45-145

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110310008A

	Butyraldehyde
6193662	87
6193663	100
6193664	92
6193665	95
6193666	88
6193667	87
6193670	99
6193671	89
Blank	104
LCS	104
MS	98
MSD	92
Limits:	64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110310016A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Surrogate Quality Control

6193672	98	102
Blank	100	61
LCS	94	68
LCSD	101	92
Limits:	30-150	45-120

Analysis Name: 20b Energetics by 8330A
Batch number: 110320004A

	2-Nitro-m-xylene
6193672	125
Blank	90
LCS	109
LCSD	106
Limits:	50-134

Analysis Name: 20a Energetics by 8330A
Batch number: 110320005A

	2-Nitro-m-xylene
6193662	126
6193663	140
6193664	127
6193665	131
6193666	125
6193667	139
6193670	126
6193671	129
Blank	126
LCS	118
LCSD	123
MS	125
MSD	123
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110340005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6193662	87	93
6193663	79	84
6193664	73	70
6193665	80	75
6193666	106	76
6193667	75	67
6193668	99	95
6193669	93	88
6193670	100	109
6193671	89	92
Blank	92	109
LCS	81	97
LCSD	87	108
MS	88	94
MSD	87	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Surrogate Quality Control

Limits:	53-139	45-120

Analysis Name: 26b Terphenyls by 8015B
Batch number: 110310018A

	n-Triacontane-d62
6193672	109
Blank	101
LCS	108
LCSD	105

Limits:	50-150	

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 110310019A

	Chlorobenzene	Orthoterphenyl
6193672	83	104
Blank	82	101
LCS	86	106
LCSD	87	106

Limits:	28-152	52-131

Analysis Name: 25a Alcohols by 8015B
Batch number: 110310025A

	Acetone
6193662	82
6193663	91
6193664	89
6193665	97
6193666	96
6193667	88
6193670	95
6193671	91
Blank	98
LCS	100
MS	83
MSD	82

Limits:	42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110320016A

	n-Triacontane-d62
6193662	109
6193663	107
6193664	107
6193665	105
6193666	99
6193667	105
6193670	98
6193671	103
Blank	105

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Surrogate Quality Control

LCS 106
MS 107
MSD 137

Limits: 50-150

Analysis Name: 25b Alcohols by 8015B
Batch number: 110320019A

	Acetone
6193672	102
Blank	102
LCS	103
MS	101
MSD	102

Limits: 54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110330006A

	Chlorobenzene	Orthoterphenyl
6193662	82	93
6193663	76	87
6193664	0*	91
6193665	67	81
6193666	68	78
6193667	68	83
6193670	73	85
6193671	73	84
Blank	74	83
LCS	76	86
MS	83	92
MSD	84	94

Limits: 37-125 47-145

Analysis Name: 27a Glycols by 8015B
Batch number: 110330022A

	Tetramethylene glycol
6193662	77
6193663	71
6193664	81
6193665	60
6193666	65
6193667	61
6193670	54
6193671	67
Blank	97
LCS	100
MS	94
MSD	89

Limits: 29-137

Analysis Name: 27b Glycols by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230848
Reported: 02/15/11 at 06:39 PM

Surrogate Quality Control

Batch number: 110330023A
Tetramethylene glycol

6193672	51
Blank	104
LCS	106
Limits:	10-164

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1230848 sample# 6193662-73

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-017-SA5B-SB-4.5	1.27.2011	0912	soil	NONE	5-Encore samplers									X	X	X											
SL-017-SA5B-SB-4.0-5.0	1.27.2011	0915	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-017-SA5B-SB-9.5	1.27.2011	0918	soil	NONE	5-Encore samplers									X	X	X											
SL-017-SA5B-SB-9.0-10.0	1.27.2011	0921	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-021-SA5B-SB-4.5	1.27.2011	1030	soil	NONE	5-Encore samplers									X	X	X											
SL-021-SA5B-SB-4.0-5.0	1.27.2011	1033	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-021-SA5B-SB-9.5	1.27.2011	1038	soil	NONE	5-Encore samplers									X	X	X											
SL-021-SA5B-SB-9.0-10.0	1.27.2011	1042	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-181-SA5B-SB-4.5	1.27.2011	0938	soil	NONE	5-Encore samplers									X	X	X											
SL-181-SA5B-SB-4.0-5.0	1.27.2011	0942	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-185-SA5B-SB-4.5	1.27.2011	1506	soil	NONE	5-Encore samplers									X	X	X											
SL-185-SA5B-SB-4.0-5.0	1.27.2011	1510	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-186-SA5B-SB-4.5	1.27.2011	1433	soil	NONE	4-Encore samplers									X	X												
SL-186-SA5B-SB-4.0-5.0	1.27.2011	1437	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-192-SA5B-SB-4.5	1.27.2011	1540	soil	NONE	4-Encore samplers									X	X												
SL-192-SA5B-SB-4.0-5.0	1.27.2011	1544	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-203-SA5B-SB-4.5	1.27.2011	1140	soil	NONE	5-Encore samplers									X	X	X											
SL-203-SA5B-SB-4.0-5.0	1.27.2011	1145	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-203-SA5B-SB-8.0	1.27.2011	1126	soil	NONE	5-Encore samplers									X	X	X											
SL-203-SA5B-SB-7.5-8.5	1.27.2011	1130	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
EB27-SA5B-012711	1.27.2011	0800	water	NONE	8-1 liter amber			X	X	X								X			X	X		X			Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	NONE	1-500 ml poly		X				X	X					X										Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	NaoH	1-500 ml poly																		X				Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	HNO3	1-500 ml poly	X																					Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	NONE	1-250 ml glass															X							Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	NONE	4-40 ml VOA VIALS														X						X		Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	HCl	11-40 ml VOA VIALS									X	X	X										X	Subsurface rinsate
TB-012711	1.27.2011	1630	water	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	1/27/2011 / 17:00		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	No. of coolers = 3
	1/28/11 / 0135	869514322383, 869514322394, 869514322409	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/28/2011
Group Number: 1230850
SDG: DX045
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA5B-SB-4.0-5.0 Soil	6193675
SL-017-SA5B-SB-9.0-10.0 Soil	6193676
SL-021-SA5B-SB-4.0-5.0 Soil	6193677
SL-021-SA5B-SB-9.0-10.0 Soil	6193678
SL-181-SA5B-SB-4.0-5.0 Soil	6193679
SL-185-SA5B-SB-4.0-5.0 Soil	6193680
SL-186-SA5B-SB-4.0-5.0 Soil	6193681
SL-192-SA5B-SB-4.0-5.0 Soil	6193682
SL-203-SA5B-SB-4.0-5.0 Soil	6193683
SL-203-SA5B-SB-7.5-8.5 Soil	6193684
EB27-SA5B-012711 Water	6193685

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-017-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193675
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX045-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193675
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX045-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0365 JQ	0.0304	1.15	1
11031	12378-PeCDD	40321-76-4	0.0803 JBQ	0.0249	5.77	1
11031	123478-HxCDD	39227-28-6	0.0755 J	0.0399	5.77	1
11031	123678-HxCDD	57653-85-7	0.327 JQ	0.0416	5.77	1
11031	123789-HxCDD	19408-74-3	0.212 J	0.0382	5.77	1
11031	1234678-HpCDD	35822-46-9	26.6 B	0.0580	5.77	1
11031	OCDD	3268-87-9	684 B	0.0397	11.5	1
11031	2378-TCDF	51207-31-9	0.0261 JQ	0.0208	1.15	1
11031	12378-PeCDF	57117-41-6	0.0701 JB	0.0110	5.77	1
11031	23478-PeCDF	57117-31-4	0.0854 JBQ	0.00946	5.77	1
11031	123478-HxCDF	70648-26-9	0.0638 JBQ	0.0253	5.77	1
11031	123678-HxCDF	57117-44-9	0.0761 JB	0.0173	5.77	1
11031	123789-HxCDF	72918-21-9	0.0627 JBQ	0.0145	5.77	1
11031	234678-HxCDF	60851-34-5	0.0660 JB	0.0146	5.77	1
11031	1234678-HpCDF	67562-39-4	0.757 JBQ	0.0197	5.77	1
11031	1234789-HpCDF	55673-89-7	0.109 JB	0.0197	5.77	1
11031	OCDF	39001-02-0	2.24 JB	0.0235	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	92	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193675
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX045-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-017-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-4.0-5.0

LLI Sample # SW 6193675
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:15

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX045-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/21/2011 16:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402A	02/08/2011 10:32	William C Schwebel	1

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Analysis Report

Sample Description: **SL-017-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193676
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4502 SDG#: DX045-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193676
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4502 SDG#: DX045-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0208	U	0.0208	1.11	1
11031	12378-PeCDD	40321-76-4	0.0482	JBQ	0.0200	5.54	1
11031	123478-HxCDD	39227-28-6	0.0355	JQ	0.0294	5.54	1
11031	123678-HxCDD	57653-85-7	0.324	JQ	0.0305	5.54	1
11031	123789-HxCDD	19408-74-3	0.337	JQ	0.0284	5.54	1
11031	1234678-HpCDD	35822-46-9	5.42	JB	0.0328	5.54	1
11031	OCDD	3268-87-9	62.7	B	0.0221	11.1	1
11031	2378-TCDF	51207-31-9	0.0312	JQ	0.0210	1.11	1
11031	12378-PeCDF	57117-41-6	0.0287	JB	0.0129	5.54	1
11031	23478-PeCDF	57117-31-4	0.0745	JB	0.0116	5.54	1
11031	123478-HxCDF	70648-26-9	0.163	JB	0.0236	5.54	1
11031	123678-HxCDF	57117-44-9	0.0914	JB	0.0172	5.54	1
11031	123789-HxCDF	72918-21-9	0.0751	JBQ	0.0185	5.54	1
11031	234678-HxCDF	60851-34-5	0.0491	JBQ	0.0174	5.54	1
11031	1234678-HpCDF	67562-39-4	0.623	JBQ	0.0126	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0689	JBQ	0.0141	5.54	1
11031	OCDF	39001-02-0	1.64	JB	0.0237	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	91	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193676
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4502 SDG#: DX045-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-017-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5B-SB-9.0-10.0

LLI Sample # SW 6193676
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:21

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4502 SDG#: DX045-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/21/2011 17:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-021-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193677
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4503 SDG#: DX045-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193677
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4503 SDG#: DX045-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.966 J	0.0313	1.12	1
11031	12378-PeCDD	40321-76-4	6.39 B	0.0667	5.59	1
11031	123478-HxCDD	39227-28-6	14.2	0.0981	5.59	1
11031	123678-HxCDD	57653-85-7	90.8	0.0935	5.59	1
11031	123789-HxCDD	19408-74-3	35.6	0.0871	5.59	1
11031	1234678-HpCDD	35822-46-9	2,540 EB	0.408	5.59	1
11031	OCDD	3268-87-9	72,500 EB	0.531	11.2	1
11031	2378-TCDF	51207-31-9	0.465 J	0.0227	1.12	1
11031	12378-PeCDF	57117-41-6	2.13 JB	0.0211	5.59	1
11031	23478-PeCDF	57117-31-4	2.65 JB	0.0194	5.59	1
11031	123478-HxCDF	70648-26-9	11.2 B	0.102	5.59	1
11031	123678-HxCDF	57117-44-9	3.36 JB	0.0805	5.59	1
11031	123789-HxCDF	72918-21-9	2.96 JB	0.0652	5.59	1
11031	234678-HxCDF	60851-34-5	3.53 JB	0.0585	5.59	1
11031	1234678-HpCDF	67562-39-4	134 B	0.105	5.59	1
11031	1234789-HpCDF	55673-89-7	6.54 B	0.0815	5.59	1
11031	OCDF	39001-02-0	795 B	0.123	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	83	26 - 138

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193677
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4503 SDG#: DX045-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-OCDF		88	17 - 157			
13C12-1278-TCDD (CRS)		92	35 - 197			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-021-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-4.0-5.0

LLI Sample # SW 6193677
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:33

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4503 SDG#: DX045-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/21/2011 18:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193678
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4504 SDG#: DX045-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193678
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4504 SDG#: DX045-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0538 JQ	0.0432	1.12	1
11031	12378-PeCDD	40321-76-4	0.301 JBQ	0.0434	5.60	1
11031	123478-HxCDD	39227-28-6	0.454 J	0.0710	5.60	1
11031	123678-HxCDD	57653-85-7	1.21 J	0.0732	5.60	1
11031	123789-HxCDD	19408-74-3	1.32 J	0.0676	5.60	1
11031	1234678-HpCDD	35822-46-9	28.6 B	0.0809	5.60	1
11031	OCDD	3268-87-9	350 B	0.103	11.2	1
11031	2378-TCDF	51207-31-9	0.0454 JQ	0.0414	1.12	1
11031	12378-PeCDF	57117-41-6	0.0767 JBQ	0.0208	5.60	1
11031	23478-PeCDF	57117-31-4	0.122 JBQ	0.0176	5.60	1
11031	123478-HxCDF	70648-26-9	0.185 JB	0.0569	5.60	1
11031	123678-HxCDF	57117-44-9	0.350 JB	0.0417	5.60	1
11031	123789-HxCDF	72918-21-9	0.171 JB	0.0363	5.60	1
11031	234678-HxCDF	60851-34-5	0.369 JB	0.0335	5.60	1
11031	1234678-HpCDF	67562-39-4	3.54 JB	0.0351	5.60	1
11031	1234789-HpCDF	55673-89-7	0.256 JB	0.0320	5.60	1
11031	OCDF	39001-02-0	7.78 JB	0.0471	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	90	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193678
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4504 SDG#: DX045-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5B-SB-9.0-10.0

LLI Sample # SW 6193678
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 10:42

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4504 SDG#: DX045-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 17:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193679
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4505 SDG#: DX045-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-181-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193679
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4505 SDG#: DX045-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0186 U	0.0186	1.15	1
11031	12378-PeCDD	40321-76-4	0.0315 JBQ	0.0181	5.73	1
11031	123478-HxCDD	39227-28-6	0.0190 U	0.0190	5.73	1
11031	123678-HxCDD	57653-85-7	0.0588 JQ	0.0203	5.73	1
11031	123789-HxCDD	19408-74-3	0.0833 JQ	0.0160	5.73	1
11031	1234678-HpCDD	35822-46-9	0.223 JB	0.0231	5.73	1
11031	OCDD	3268-87-9	1.04 JB	0.0300	11.5	1
11031	2378-TCDF	51207-31-9	0.0178 U	0.0178	1.15	1
11031	12378-PeCDF	57117-41-6	0.0261 JBQ	0.00836	5.73	1
11031	23478-PeCDF	57117-31-4	0.0479 JBQ	0.00790	5.73	1
11031	123478-HxCDF	70648-26-9	0.0215 U	0.0215	5.73	1
11031	123678-HxCDF	57117-44-9	0.0171 JBQ	0.0157	5.73	1
11031	123789-HxCDF	72918-21-9	0.103 JB	0.0112	5.73	1
11031	234678-HxCDF	60851-34-5	0.0180 JB	0.00951	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0579 JB	0.0141	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0292 JBQ	0.0136	5.73	1
11031	OCDF	39001-02-0	0.150 JBQ	0.0291	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193679
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4505 SDG#: DX045-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5B-SB-4.0-5.0

LLI Sample # SW 6193679
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 09:42

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4505 SDG#: DX045-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 18:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193680
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4506 SDG#: DX045-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193680
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4506 SDG#: DX045-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.14	1
11031	12378-PeCDD	40321-76-4	0.0637	JB	0.0196	5.72	1
11031	123478-HxCDD	39227-28-6	0.0622	JQ	0.0305	5.72	1
11031	123678-HxCDD	57653-85-7	0.360	J	0.0311	5.72	1
11031	123789-HxCDD	19408-74-3	0.327	J	0.0296	5.72	1
11031	1234678-HpCDD	35822-46-9	4.26	JB	0.0273	5.72	1
11031	OCDD	3268-87-9	55.3	B	0.0272	11.4	1
11031	2378-TCDF	51207-31-9	0.0925	J	0.0265	1.14	1
11031	12378-PeCDF	57117-41-6	0.0749	JBQ	0.0134	5.72	1
11031	23478-PeCDF	57117-31-4	0.160	JB	0.0122	5.72	1
11031	123478-HxCDF	70648-26-9	0.221	JB	0.0246	5.72	1
11031	123678-HxCDF	57117-44-9	0.0687	JB	0.0188	5.72	1
11031	123789-HxCDF	72918-21-9	0.198	JB	0.0209	5.72	1
11031	234678-HxCDF	60851-34-5	0.0803	JB	0.0180	5.72	1
11031	1234678-HpCDF	67562-39-4	0.511	JB	0.0148	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0832	JB	0.0200	5.72	1
11031	OCDF	39001-02-0	1.28	JB	0.0239	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	89	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193680
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4506 SDG#: DX045-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-185-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5B-SB-4.0-5.0

LLI Sample # SW 6193680
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:10

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4506 SDG#: DX045-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/21/2011 21:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-186-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193681
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4507 SDG#: DX045-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-186-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193681
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4507 SDG#: DX045-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0361 JQ	0.0308	1.11	1
11031	12378-PeCDD	40321-76-4	0.0307 JBQ	0.0292	5.57	1
11031	123478-HxCDD	39227-28-6	0.0283 U	0.0283	5.57	1
11031	123678-HxCDD	57653-85-7	0.0284 U	0.0284	5.57	1
11031	123789-HxCDD	19408-74-3	0.0268 U	0.0268	5.57	1
11031	1234678-HpCDD	35822-46-9	0.345 JB	0.0515	5.57	1
11031	OCDD	3268-87-9	1.39 JB	0.0447	11.1	1
11031	2378-TCDF	51207-31-9	0.0290 U	0.0290	1.11	1
11031	12378-PeCDF	57117-41-6	0.0193 JBQ	0.0143	5.57	1
11031	23478-PeCDF	57117-31-4	0.0638 JBQ	0.0124	5.57	1
11031	123478-HxCDF	70648-26-9	0.0636 JBQ	0.0427	5.57	1
11031	123678-HxCDF	57117-44-9	0.0272 U	0.0272	5.57	1
11031	123789-HxCDF	72918-21-9	0.0642 JBQ	0.0264	5.57	1
11031	234678-HxCDF	60851-34-5	0.0207 U	0.0207	5.57	1
11031	1234678-HpCDF	67562-39-4	0.0555 JBQ	0.0467	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0855 JBQ	0.0561	5.57	1
11031	OCDF	39001-02-0	0.159 JBQ	0.0561	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-186-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193681
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4507 SDG#: DX045-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-186-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5B-SB-4.0-5.0

LLI Sample # SW 6193681
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 14:37

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4507 SDG#: DX045-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/21/2011 22:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401B	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-192-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193682
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4508 SDG#: DX045-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-192-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193682
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4508 SDG#: DX045-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0235 U	0.0235	1.12	1
11031	12378-PeCDD	40321-76-4	0.0285 JBQ	0.0257	5.61	1
11031	123478-HxCDD	39227-28-6	0.0255 U	0.0255	5.61	1
11031	123678-HxCDD	57653-85-7	0.0505 J	0.0254	5.61	1
11031	123789-HxCDD	19408-74-3	0.0930 JQ	0.0258	5.61	1
11031	1234678-HpCDD	35822-46-9	0.224 JB	0.0361	5.61	1
11031	OCDD	3268-87-9	0.857 JBQ	0.0350	11.2	1
11031	2378-TCDF	51207-31-9	0.0233 U	0.0233	1.12	1
11031	12378-PeCDF	57117-41-6	0.0505 JBQ	0.0118	5.61	1
11031	23478-PeCDF	57117-31-4	0.0578 JB	0.0111	5.61	1
11031	123478-HxCDF	70648-26-9	0.0354 JBQ	0.0219	5.61	1
11031	123678-HxCDF	57117-44-9	0.0368 JBQ	0.0149	5.61	1
11031	123789-HxCDF	72918-21-9	0.0379 JBQ	0.0158	5.61	1
11031	234678-HxCDF	60851-34-5	0.0208 JBQ	0.0139	5.61	1
11031	1234678-HpCDF	67562-39-4	0.0650 JBQ	0.0253	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0290 U	0.0290	5.61	1
11031	OCDF	39001-02-0	0.169 JBQ	0.0505	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-192-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193682
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4508 SDG#: DX045-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-192-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-192-SA5B-SB-4.0-5.0

LLI Sample # SW 6193682
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 15:44

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4508 SDG#: DX045-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/21/2011 23:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11034162401B	02/03/2011 19:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-203-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193683
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4509 SDG#: DX045-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-203-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193683
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4509 SDG#: DX045-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0359	J	0.0265	1.16	1
11031	12378-PeCDD	40321-76-4	0.150	JBQ	0.0323	5.81	1
11031	123478-HxCDD	39227-28-6	0.0922	JQ	0.0513	5.81	1
11031	123678-HxCDD	57653-85-7	0.468	JQ	0.0442	5.81	1
11031	123789-HxCDD	19408-74-3	0.619	J	0.0310	5.81	1
11031	1234678-HpCDD	35822-46-9	4.23	JB	0.0298	5.81	1
11031	OCDD	3268-87-9	53.4	B	0.0279	11.6	1
11031	2378-TCDF	51207-31-9	0.120	JQ	0.0419	1.16	1
11031	12378-PeCDF	57117-41-6	0.189	JB	0.0186	5.81	1
11031	23478-PeCDF	57117-31-4	0.263	JB	0.0209	5.81	1
11031	123478-HxCDF	70648-26-9	1.16	JB	0.0834	5.81	1
11031	123678-HxCDF	57117-44-9	0.126	JBQ	0.0531	5.81	1
11031	123789-HxCDF	72918-21-9	0.480	JB	0.0234	5.81	1
11031	234678-HxCDF	60851-34-5	0.148	JBQ	0.0235	5.81	1
11031	1234678-HpCDF	67562-39-4	0.616	JB	0.0319	5.81	1
11031	1234789-HpCDF	55673-89-7	0.119	JBQ	0.0197	5.81	1
11031	OCDF	39001-02-0	1.49	JB	0.0374	11.6	1

The recovery of 13C12-123478-HxCDF was outside QC limits in this sample. This sample was previously extracted but the data was not reported due to an out of specification OPR.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	47	32 - 141
13C12-123678-HxCDD	54	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	21	26 - 152
13C12-123678-HxCDF	32	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	36	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-203-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193683
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4509 SDG#: DX045-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-203-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-4.0-5.0

LLI Sample # SW 6193683
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:45

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4509 SDG#: DX045-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 03:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-203-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193684
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX045-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-203-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193684
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX045-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0276 JQ	0.0182	1.14	1
11031	12378-PeCDD	40321-76-4	0.0385 JBQ	0.0175	5.68	1
11031	123478-HxCDD	39227-28-6	0.0185 U	0.0185	5.68	1
11031	123678-HxCDD	57653-85-7	0.0168 U	0.0168	5.68	1
11031	123789-HxCDD	19408-74-3	0.0192 JQ	0.0140	5.68	1
11031	1234678-HpCDD	35822-46-9	0.158 JB	0.0203	5.68	1
11031	OCDD	3268-87-9	0.444 JB	0.0218	11.4	1
11031	2378-TCDF	51207-31-9	0.0153 U	0.0153	1.14	1
11031	12378-PeCDF	57117-41-6	0.0107 JBQ	0.00715	5.68	1
11031	23478-PeCDF	57117-31-4	0.0515 JBQ	0.00760	5.68	1
11031	123478-HxCDF	70648-26-9	0.0207 U	0.0207	5.68	1
11031	123678-HxCDF	57117-44-9	0.0124 U	0.0124	5.68	1
11031	123789-HxCDF	72918-21-9	0.0295 JBQ	0.00817	5.68	1
11031	234678-HxCDF	60851-34-5	0.0146 JBQ	0.00738	5.68	1
11031	1234678-HpCDF	67562-39-4	0.0371 JBQ	0.0228	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0570 JBQ	0.0195	5.68	1
11031	OCDF	39001-02-0	0.126 JBQ	0.0326	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-203-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193684
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX045-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-203-SA5B-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-203-SA5B-SB-7.5-8.5

LLI Sample # SW 6193684
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 11:30

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX045-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 03:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193685
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX045-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.977	U	0.977	2.13	1
10915	12378-PeCDD	40321-76-4	0.718	U	0.718	10.7	1
10915	123478-HxCDD	39227-28-6	0.593	U	0.593	10.7	1
10915	123678-HxCDD	57653-85-7	0.601	U	0.601	10.7	1
10915	123789-HxCDD	19408-74-3	0.573	U	0.573	10.7	1
10915	1234678-HpCDD	35822-46-9	1.40	JBQ	0.962	10.7	1
10915	OCDD	3268-87-9	7.15	JB	0.737	21.3	1
10915	2378-TCDF	51207-31-9	0.972	U	0.972	2.13	1
10915	12378-PeCDF	57117-41-6	0.742	JBQ	0.497	10.7	1
10915	23478-PeCDF	57117-31-4	0.806	JBQ	0.408	10.7	1
10915	123478-HxCDF	70648-26-9	0.501	JBQ	0.447	10.7	1
10915	123678-HxCDF	57117-44-9	0.362	U	0.362	10.7	1
10915	123789-HxCDF	72918-21-9	0.449	U	0.449	10.7	1
10915	234678-HxCDF	60851-34-5	0.409	JBQ	0.356	10.7	1
10915	1234678-HpCDF	67562-39-4	0.656	JBQ	0.379	10.7	1
10915	1234789-HpCDF	55673-89-7	0.492	U	0.492	10.7	1
10915	OCDF	39001-02-0	1.83	JBQ	1.39	21.3	1

The recoveries of several labeled compounds were outside QC limits in the method blank associated with this sample. All labeled compound recoveries were within specifications in the sample and the associated OPR.

The sample was re-extracted but the recoveries of several labeled compounds were outside QC limits in the sample. The results of the original extraction and analysis are reported.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	47	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	39	32 - 141
13C12-123678-HxCDD	40	28 - 130
13C12-123789-HxCDD	41	28 - 130
13C12-1234678-HpCDD	42	23 - 140
13C12-OCDD	41	17 - 157
13C12-2378-TCDF	46	24 - 169
13C12-12378-PeCDF	49	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	39	28 - 136
13C12-123789-HxCDF	38	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	38	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

Lancaster Laboratories

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Analysis Report

Sample Description: **EB27-SA5B-012711 Water**
SSFL Area IV Collocated Soil Sampling
EB27-SA5B-012711

LLI Sample # WW 6193685
LLI Group # 1230850
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/27/2011 08:00

Submitted: 01/28/2011 09:35
Reported: 03/19/2011 23:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX045-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11039001	02/15/2011 20:19	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11039001	02/09/2011 08:00	Deborah M Zimmerman	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230850
Reported: 03/19/11 at 11:12 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11034162401B	Sample number(s): 6193681-6193682								
28a Moisture Content by 160.3					99		80-120		
Batch number: 11039162402A	Sample number(s): 6193675								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11042162401A	Sample number(s): 6193676-6193680,6193683-6193684								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11039001	Sample number(s): 6193685								
2378-TCDD	0.388 J	0.229	2.00	pg/l	92		67-158		
12378-PeCDD	0.582 J	0.403	10.0	pg/l	94		70-142		
123478-HxCDD	0.977 J	0.629	10.0	pg/l	100		70-164		
123678-HxCDD	1.28 J	0.504	10.0	pg/l	98		76-134		
123789-HxCDD	0.498 J	0.184	10.0	pg/l	98		64-162		
1234678-HpCDD	3.54 J	0.739	10.0	pg/l	100		70-140		
OCDD	8.07 J	0.564	20.0	pg/l	108		78-144		
2378-TCDF	0.401 U	0.401	2.00	pg/l	98		75-158		
12378-PeCDF	0.581 J	0.174	10.0	pg/l	93		80-134		
23478-PeCDF	1.07 J	0.359	10.0	pg/l	89		68-160		
123478-HxCDF	1.91 J	0.712	10.0	pg/l	98		72-134		
123678-HxCDF	1.44 J	0.404	10.0	pg/l	94		84-130		
123789-HxCDF	0.762 J	0.175	10.0	pg/l	95		78-130		
234678-HxCDF	0.751 J	0.263	10.0	pg/l	95		70-156		
1234678-HpCDF	1.45 J	0.386	10.0	pg/l	101		82-122		
1234789-HpCDF	1.17 J	0.297	10.0	pg/l	100		78-138		
OCDF	6.03 J	1.53	20.0	pg/l	106		63-170		
Batch number: 11046001	Sample number(s): 6193675-6193684								
2378-TCDD	0.0231 U	0.0231	1.00	ng/kg	96		67-158		
12378-PeCDD	0.0370 J	0.0235	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0244 U	0.0244	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0234 U	0.0234	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0219 U	0.0219	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.157 J	0.0277	5.00	ng/kg	95		70-140		
OCDD	0.311 J	0.0242	10.0	ng/kg	93		78-144		
2378-TCDF	0.0237 U	0.0237	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0123 J	0.0114	5.00	ng/kg	94		80-134		
23478-PeCDF	0.0418 J	0.0120	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0660 J	0.0251	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0243 J	0.0153	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0336 J	0.0132	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0212 J	0.0116	5.00	ng/kg	94		70-156		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230850
Reported: 03/19/11 at 11:12 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.0681 J	0.0120	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0345 J	0.0133	5.00	ng/kg	93		78-138		
OCDF	0.158 J	0.0404	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11034162401B	Sample number(s): 6193681-6193682					BKG: P193669			
28a Moisture Content by 160.3						10.9	10.3	5	20
Batch number: 11039162402A	Sample number(s): 6193675					BKG: P192761			
28a Moisture Content by 160.3						12.7	13.8	8	20
Batch number: 11042162401A	Sample number(s): 6193676-6193680,6193683-6193684					BKG: P194575			
28a Moisture Content by 160.3						12.2	12.1	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11039001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6193685	47	53	32	37	39	38
Blank	82	26	11*	18*	28	48
OPR	84	98	68	80	82	85
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6193685	40	38	37	86	62	39
Blank	17*	26	15*	43	54	19*
OPR	83	84	76	98	103	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6193685	40	41	42	41	46	49
Blank	25*	66	27	25	48	58
OPR	83	84	84	81	78	100
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1230850
Reported: 03/19/11 at 11:12 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11046001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6193675	81	99	48	65	80	88
6193676	75	93	59	75	78	81
6193677	81	87	46	55	79	80
6193678	74	93	48	61	78	79
6193679	68	81	32	42	69	67
6193680	81	91	61	75	79	77
6193681	74	88	37	57	74	67
6193682	66	75	44	61	67	68
6193683	75	76	21*	32	71	80
6193684	73	87	28	44	77	78
Blank	76	69	35	54	71	76
OPR	67	66	45	61	73	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6193675	74	87	92	91	97	79
6193676	85	86	91	91	90	81
6193677	54	83	88	92	93	74
6193678	62	84	90	89	91	77
6193679	55	68	67	87	82	65
6193680	87	78	89	92	91	81
6193681	66	67	70	88	90	74
6193682	67	70	74	83	78	66
6193683	36	69	64	86	85	47
6193684	53	73	70	92	91	61
Blank	59	66	68	93	74	71
OPR	68	65	67	83	68	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6193675	81	86	93	105	79	92
6193676	82	83	94	103	75	88
6193677	76	85	86	88	80	86
6193678	75	82	83	94	79	85
6193679	64	76	78	63	63	77
6193680	79	83	90	99	77	89
6193681	75	81	82	91	70	84
6193682	67	69	70	87	62	77
6193683	54	76	81	86	69	91
6193684	69	84	86	97	72	100
Blank	74	78	80	84	69	76
OPR	72	76	77	82	66	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct # 13013 Ap # 1230650 Sample # GP936075-85

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Brian Klein for Pam Hartman

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	VOCs: 1,4-Dioxane EPA 8260SIM $	VOCs: TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-017-SA5B-SB-4.5	1.27.2011	0912	soil	NONE	5-Encore samplers									X	X	X											
SL-017-SA5B-SB-4.0-5.0	1.27.2011	0915	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-017-SA5B-SB-9.5	1.27.2011	0918	soil	NONE	5-Encore samplers									X	X	X											
SL-017-SA5B-SB-9.0-10.0	1.27.2011	0921	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-021-SA5B-SB-4.5	1.27.2011	1030	soil	NONE	5-Encore samplers									X	X	X											
SL-021-SA5B-SB-4.0-5.0	1.27.2011	1033	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-021-SA5B-SB-9.5	1.27.2011	1038	soil	NONE	5-Encore samplers									X	X	X											
SL-021-SA5B-SB-9.0-10.0	1.27.2011	1042	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-181-SA5B-SB-4.5	1.27.2011	0938	soil	NONE	5-Encore samplers									X	X	X											
SL-181-SA5B-SB-4.0-5.0	1.27.2011	0942	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-185-SA5B-SB-4.5	1.27.2011	1506	soil	NONE	5-Encore samplers									X	X	X											
SL-185-SA5B-SB-4.0-5.0	1.27.2011	1510	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-186-SA5B-SB-4.5	1.27.2011	1433	soil	NONE	4-Encore samplers									X	X												
SL-186-SA5B-SB-4.0-5.0	1.27.2011	1437	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-192-SA5B-SB-4.5	1.27.2011	1540	soil	NONE	4-Encore samplers									X	X												
SL-192-SA5B-SB-4.0-5.0	1.27.2011	1544	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-203-SA5B-SB-4.5	1.27.2011	1140	soil	NONE	5-Encore samplers									X	X	X											
SL-203-SA5B-SB-4.0-5.0	1.27.2011	1145	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-203-SA5B-SB-8.0	1.27.2011	1126	soil	NONE	5-Encore samplers									X	X	X											
SL-203-SA5B-SB-7.5-8.5	1.27.2011	1130	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
EB27-SA5B-012711	1.27.2011	0800	water	NONE	8-1 liter amber			X	X	X							X	X			X	X		X			Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	NONE	1-500 ml poly		X				X	X					X										Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	NaoH	1-500 ml poly																		X				Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	HNO3	1-500 ml poly	X														X							Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	NONE	1-250 ml glass																						Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	NONE	4-40 ml VOA VIALS														X						X		Subsurface rinsate
EB27-SA5B-012711	1.27.2011	0800	water	HCl	11-40 ml VOA VIALS																						Subsurface rinsate
TB-012711	1.27.2011	1630	water	HCl	4-40 mL VOA VIALS									X	X	X										X	TRIP BLANK

Relinquished by: (Signature) Brian Klein — Date/Time: 1/27/2011 / 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 1/27/11 / 0435 — Airbill No.(s): 869514322383, 869514322394, 869514322409

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/29/2011
Group Number: 1231013
SDG: DE071
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-178-SA5B-SB-4.0-5.0 Soil	6194572
SL-179-SA5B-SB-4.0-5.0 Soil	6194573
SL-179-SA5B-SB-7.0-8.0 Soil	6194574
SL-183-SA5B-SB-4.0-5.0 Soil	6194575
SL-184-SA5B-SB-3.0-4.0 Soil	6194576
SL-193-SA5B-SB-4.0-5.0 Soil	6194577
SL-194-SA5B-SB-4.0-5.0 Soil	6194578
SL-196-SA5B-SB-4.0-5.0 Soil	6194579
SL-201-SA5B-SB-4.0-5.0 Soil	6194580
SL-201-SA5B-SB-9.0-10.0 Soil	6194581
SL-202-SA5B-SB-4.0-5.0 Soil	6194582
SL-202-SA5B-SB-7.0-8.0 Soil	6194583

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Matthew E. Barton
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-178-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194572
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7101 SDG#: DE071-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.93
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.93
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.93
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.93
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.93
06192	Methylene Chloride	75-09-2	0.75	J	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.93

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-178-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194572
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7101 SDG#: DE071-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.93
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.93
06192	Toluene	108-88-3	0.10	J	0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.12
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-178-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194572
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7101 SDG#: DE071-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-178-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194572
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7101 SDG#: DE071-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		5.83	23.2		1
07914	Boron	7440-42-8	2.24	J	1.03	5.79		1
01650	Calcium	7440-70-2	3,720		7.03	22.9		1
01654	Iron	7439-89-6	30,000		5.46	23.2		1
01656	Lithium	7439-93-2	33.8		0.25	2.3		1
01657	Magnesium	7439-95-4	5,140		2.94	11.6		1
06958	Manganese	7439-96-5	289		0.0904	0.579		1
10145	Phosphorus	7723-14-0	169		0.649	11.6		1
01662	Potassium	7440-09-7	1,630		20.7	57.4		1
01667	Sodium	7440-23-5	123		42.8	115		1
07968	Strontium	7440-24-6	25.8		0.0718	0.579		1
06969	Tin	7440-31-5	2.72	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,360		0.436	1.15		1
10146	Zirconium	7440-67-7	2.82	J	0.973	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0682	U	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.32		0.0909	0.454		2
06126	Barium	7440-39-3	111		0.123	0.454		2
06127	Beryllium	7440-41-7	0.791		0.0182	0.114		2

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Sample Description: **SL-178-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194572
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7101 SDG#: DE071-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.130	0.0454	0.114		2
06131	Chromium	7440-47-3	22.5	0.136	0.454		2
06132	Cobalt	7440-48-4	6.88	0.0227	0.114		2
06133	Copper	7440-50-8	8.43	0.0750	0.454		2
06135	Lead	7439-92-1	7.12	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.239	0.0568	0.114		2
06139	Nickel	7440-02-0	15.9	0.114	0.454		2
06141	Selenium	7782-49-2	0.0590 J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0518 J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.271	0.0341	0.114		2
06148	Vanadium	7440-62-2	46.9	0.0250	0.114		2
06149	Zinc	7440-66-6	48.6	0.636	3.41		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	432	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-178-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194572
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7101 SDG#: DE071-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-178-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/01/2011 21:37	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 14:45	Jason M Long	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:01	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 13:39	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/04/2011 12:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 17:45	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110345708002	02/04/2011 11:49	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 05:04	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/04/2011 07:05	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110345708002	02/04/2011 11:49	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110345708002	02/04/2011 11:49	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 11:49	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/04/2011 07:05	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 07:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:09	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-178-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194572
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7101 SDG#: DE071-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 07:48	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 07:48	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 07:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 13:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 18:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 11:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

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Analysis Report

Sample Description: SL-179-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194573
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7102 SDG#: DE071-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.9
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.9
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.9
06192	Methylene Chloride	75-09-2	0.90	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-179-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194573
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7102 SDG#: DE071-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.13	J	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.5	U	6.5	19		27.78
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-179-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194573
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7102 SDG#: DE071-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-179-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194573
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7102 SDG#: DE071-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.6	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		5.85	23.3		1
07914	Boron	7440-42-8	2.31	J	1.03	5.81		1
01650	Calcium	7440-70-2	2,840		7.13	23.3		1
01654	Iron	7439-89-6	23,400		5.48	23.3		1
01656	Lithium	7439-93-2	24.5		0.26	2.3		1
01657	Magnesium	7439-95-4	4,460		2.95	11.6		1
06958	Manganese	7439-96-5	294		0.0907	0.581		1
10145	Phosphorus	7723-14-0	230		0.651	11.6		1
01662	Potassium	7440-09-7	2,120		20.9	58.1		1
01667	Sodium	7440-23-5	83.1	J	43.4	116		1
07968	Strontium	7440-24-6	26.0		0.0721	0.581		1
06969	Tin	7440-31-5	2.65	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,320		0.425	1.12		1
10146	Zirconium	7440-67-7	1.97	J	0.977	5.81		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0671	U	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-179-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194573
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7102 SDG#: DE071-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.61	0.0894	0.447		2
06126	Barium	7440-39-3	106	0.121	0.447		2
06127	Beryllium	7440-41-7	0.681	0.0179	0.112		2
06128	Cadmium	7440-43-9	0.144	0.0447	0.112		2
06131	Chromium	7440-47-3	20.9	0.134	0.447		2
06132	Cobalt	7440-48-4	5.99	0.0224	0.112		2
06133	Copper	7440-50-8	9.33	0.0738	0.447		2
06135	Lead	7439-92-1	7.40	0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.449	0.0559	0.112		2
06139	Nickel	7440-02-0	13.0	0.112	0.447		2
06141	Selenium	7782-49-2	0.118 J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0441 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.260	0.0335	0.112		2
06148	Vanadium	7440-62-2	39.6	0.0246	0.112		2
06149	Zinc	7440-66-6	49.3	0.626	3.35		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	445	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.94	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-179-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194573
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7102 SDG#: DE071-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-179-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/01/2011 21:59	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 15:05	Jason M Long	27.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:03	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 15:04	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/04/2011 13:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110310001A	02/03/2011 14:49	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 18:04	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110310001A	01/31/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 07:52	David K Beck	2

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Sample Description: **SL-179-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194573
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7102 SDG#: DE071-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:11	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 07:52	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 07:52	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 07:52	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 14:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 19:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 11:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-179-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194574
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7103 SDG#: DE071-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-179-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194574
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7103 SDG#: DE071-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.2	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-179-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194574
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7103 SDG#: DE071-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,700		5.59	22.2		1
07914	Boron	7440-42-8	1.39	J	0.990	5.56		1
01650	Calcium	7440-70-2	3,430		6.82	22.2		1
01654	Iron	7439-89-6	25,000		5.24	22.2		1
01656	Lithium	7439-93-2	24.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,910		2.82	11.1		1
06958	Manganese	7439-96-5	136		0.0867	0.556		1
10145	Phosphorus	7723-14-0	264		0.623	11.1		1
01662	Potassium	7440-09-7	1,440		20.0	55.6		1
01667	Sodium	7440-23-5	96.4	J	41.5	111		1
07968	Strontium	7440-24-6	29.0		0.0690	0.556		1
06969	Tin	7440-31-5	2.57	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,370		0.431	1.13		1
10146	Zirconium	7440-67-7	1.48	J	0.934	5.56		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0661	U	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.18		0.0881	0.441		2
06126	Barium	7440-39-3	81.9		0.119	0.441		2
06127	Beryllium	7440-41-7	0.595		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0809	J	0.0441	0.110		2
06131	Chromium	7440-47-3	20.3		0.132	0.441		2
06132	Cobalt	7440-48-4	3.44		0.0220	0.110		2
06133	Copper	7440-50-8	8.68		0.0727	0.441		2
06135	Lead	7439-92-1	4.68		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.129		0.0551	0.110		2
06139	Nickel	7440-02-0	9.98		0.110	0.441		2
06141	Selenium	7782-49-2	0.0441	U	0.0441	0.441		2
06142	Silver	7440-22-4	0.0659	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.229		0.0330	0.110		2
06148	Vanadium	7440-62-2	36.1		0.0242	0.110		2
06149	Zinc	7440-66-6	48.9		0.617	3.30		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0047	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.92	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-179-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194574
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7103 SDG#: DE071-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	476		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 15:33	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/04/2011 14:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 18:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-179-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194574
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7103 SDG#: DE071-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:04	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:01	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:13	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 08:01	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:01	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:01	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 15:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 20:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11040243201A	02/11/2011 12:01	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.0	U	6.0	7.2		0.79
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.79
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.79
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.79
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.79
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.79
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6		0.79
06192	2-Butanone	78-93-3	1.1	U	1.1	7.2		0.79
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.79
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.79
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.6		0.79
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.79
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.79
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.79
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.79
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.79
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.79
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.79
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.79
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.79
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63	U	0.63	3.6		0.79
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.79
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.79
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6		0.79
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.79
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.79
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.6		0.79
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.79
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.79
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6		0.79
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.79
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.79
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.79
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.79
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.79
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.79
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.79
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.6		0.79
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.79
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.79
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.79
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.79
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.79
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.2		0.79
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.79
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.79
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.79
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.2		0.79
06192	Methylene Chloride	75-09-2	0.65	J	0.22	3.6		0.79
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.79

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-183-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.79
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.79
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.79
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.79
06192	Toluene	108-88-3	0.08	J	0.07	3.6		0.79
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.79
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.79
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.79
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.79
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6		0.79
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.79
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.79
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.79
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.79
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.79
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.79
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.79
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.29
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	129	J	94.9	190		5
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1

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Sample Description: **SL-183-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	1.3	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1

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Sample Description: **SL-183-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	110	U	110	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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Sample Description: SL-183-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
	Due to interfering peaks on the chromatogram, the values reported for 1,3-dinitrobenzene represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.66	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.7		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	11	U	11	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	Due to interfering peaks on the chromatogram, the value reported for ethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-183-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.56	22.1		1
07914	Boron	7440-42-8	2.44	J	0.984	5.53		1
01650	Calcium	7440-70-2	2,010		6.78	22.1		1
01654	Iron	7439-89-6	17,300		5.21	22.1		1
01656	Lithium	7439-93-2	13.2		0.24	2.2		1
01657	Magnesium	7439-95-4	2,950		2.81	11.1		1
06958	Manganese	7439-96-5	337		0.0863	0.553		1
10145	Phosphorus	7723-14-0	193		0.619	11.1		1
01662	Potassium	7440-09-7	2,640		19.9	55.3		1
01667	Sodium	7440-23-5	74.4	J	41.2	111		1
07968	Strontium	7440-24-6	21.7		0.0686	0.553		1
06969	Tin	7440-31-5	2.05	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,140		0.433	1.14		1
10146	Zirconium	7440-67-7	2.08	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0677	U	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.98		0.0902	0.451		2
06126	Barium	7440-39-3	91.5		0.122	0.451		2
06127	Beryllium	7440-41-7	0.571		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.205		0.0451	0.113		2
06131	Chromium	7440-47-3	15.8		0.135	0.451		2
06132	Cobalt	7440-48-4	5.50		0.0226	0.113		2
06133	Copper	7440-50-8	9.46		0.0744	0.451		2
06135	Lead	7439-92-1	5.77		0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.436		0.0564	0.113		2
06139	Nickel	7440-02-0	10.8		0.113	0.451		2
06141	Selenium	7782-49-2	0.135	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0229	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.271		0.0338	0.113		2
06148	Vanadium	7440-62-2	30.5		0.0248	0.113		2
06149	Zinc	7440-66-6	38.3		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.91	1.7		1

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Sample Description: **SL-183-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	494		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-183-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/01/2011 22:45	Laura M Krieger	0.79
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 15:25	Jason M Long	20.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:06	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: SL-183-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:06	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011 17:48	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 16:02	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/04/2011 15:01	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11031A34A	01/31/2011 16:49	Elizabeth J Marin	22.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:06	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 18:42	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 23:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 18:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 03:25	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 06:05	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 05:56	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 17:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:08	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2

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Sample Description: **SL-183-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194575
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7104 SDG#: DE071-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:04	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:15	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 08:04	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:04	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:04	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 11:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621202A	02/11/2011 11:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 20:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 12:19	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201B	02/08/2011 17:27	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201B	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.87
06192	Methylene Chloride	75-09-2	0.55	J	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.87
06192	Toluene	108-88-3	0.09	J	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.87

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.51
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	83.4		19.5	38.9		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.9		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1

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Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	2.2		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	3.0		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.6	J	0.78	1.9		1
10138	Pyrene	129-00-0	3.1		0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	580	U	580	580	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1

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Sample Description: **SL-184-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

Due to interfering peaks on the chromatogram, the values reported for 1,3-dinitrobenzene represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	700	U	700	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	6.2		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	4.2		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	6.1		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	13		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	12	U	12	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	Due to interfering peaks on the chromatogram, the value reported for ethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,500		5.81	23.1		1
07914	Boron	7440-42-8	2.03	J	1.03	5.78		1
01650	Calcium	7440-70-2	3,060		6.88	22.4		1
01654	Iron	7439-89-6	24,000		5.44	23.1		1
01656	Lithium	7439-93-2	25.3		1.3	11.6		5
01657	Magnesium	7439-95-4	4,510		14.7	57.8		5
06958	Manganese	7439-96-5	270		0.0901	0.578		1
10145	Phosphorus	7723-14-0	221		0.647	11.6		1
01662	Potassium	7440-09-7	2,580		20.8	57.8		1
01667	Sodium	7440-23-5	123		43.1	116		1
07968	Strontium	7440-24-6	27.3		0.0716	0.578		1
06969	Tin	7440-31-5	2.74	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,350		0.426	1.12		1
10146	Zirconium	7440-67-7	2.17	J	0.970	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0931	J	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.17		0.0915	0.458		2
06126	Barium	7440-39-3	111		0.124	0.458		2
06127	Beryllium	7440-41-7	0.752		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.170		0.0458	0.114		2
06131	Chromium	7440-47-3	23.4		0.137	0.458		2
06132	Cobalt	7440-48-4	5.84		0.0229	0.114		2
06133	Copper	7440-50-8	10.5		0.0755	0.458		2
06135	Lead	7439-92-1	9.83		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.484		0.0572	0.114		2
06139	Nickel	7440-02-0	13.9		0.114	0.458		2

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Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06141	Selenium	7782-49-2	0.131 J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0643 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.275	0.0343	0.114		2
06148	Vanadium	7440-62-2	41.1	0.0252	0.114		2
06149	Zinc	7440-66-6	51.4	0.641	3.43		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081 J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3	0.93	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	496	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.01	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-184-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
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E7105 SDG#: DE071-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/03/2011 23:25	Laura M Krieger	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 15:45	Jason M Long	21.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:10	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11031SLB026	02/11/2011 18:05	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 16:30	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/04/2011 15:32	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11031SLB026	01/31/2011 16:45	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11031A34A	01/31/2011 17:26	Elizabeth J Marin	21.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:09	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110320005A	02/04/2011 19:25	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110310008A	02/02/2011 23:11	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110310001A	02/04/2011 15:32	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 18:59	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110310001A	01/31/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110310008A	02/02/2011 10:40	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110320005A	02/01/2011 14:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110330006A	02/04/2011 03:50	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110310025A	02/01/2011 06:19	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110330022A	02/04/2011 06:31	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110320016A	02/03/2011 21:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110330006A	02/02/2011 16:30	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	110320016A	02/02/2011 09:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110330022A	02/03/2011 15:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110310025A	01/31/2011 17:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110345708002	02/04/2011 12:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/04/2011 06:44	Joanne M Gates	5
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 22:47	John W Yanzuk II	5
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:12	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 04:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 07:30	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:02	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 07:30	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 07:30	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 07:30	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 12:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11040621202A	02/11/2011 12:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 21:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 12:32	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11039102201B	02/08/2011 17:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11039102201B	02/08/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1

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Sample Description: **SL-184-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194576
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7105 SDG#: DE071-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-193-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194577
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7106 SDG#: DE071-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.6		0.96
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		0.96
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		0.96
06192	Bromoform	75-25-2	0.45	U	0.45	4.6		0.96
06192	Bromomethane	74-83-9	0.28	U	0.28	4.6		0.96
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		0.96
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		0.96
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		0.96
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		0.96
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		0.96
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		0.96
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		0.96
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		0.96
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		0.96
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		0.96
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		0.96
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		0.96
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		0.96
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		0.96
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.6		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		0.96
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		0.96
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		0.96
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		0.96
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		0.96
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		0.96
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		0.96
06192	Methylene Chloride	75-09-2	0.87	J	0.27	4.6		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		0.96

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Sample Description: SL-193-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194577
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7106 SDG#: DE071-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		0.96
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		0.96
06192	Toluene	108-88-3	0.14	J	0.09	4.6		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.6		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		0.96
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		0.96
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.6		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		0.96
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		0.96
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		22.44
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U	790	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: **SL-193-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194577
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7106 SDG#: DE071-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-193-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194577
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7106 SDG#: DE071-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.88	23.4		1
07914	Boron	7440-42-8	1.16	J	1.04	5.84		1
01650	Calcium	7440-70-2	2,990		7.17	23.4		1
01654	Iron	7439-89-6	30,000		5.51	23.4		1
01656	Lithium	7439-93-2	36.0		0.26	2.3		1
01657	Magnesium	7439-95-4	6,410		2.97	11.7		1
06958	Manganese	7439-96-5	245		0.0912	0.584		1
10145	Phosphorus	7723-14-0	236		0.655	11.7		1
01662	Potassium	7440-09-7	1,740		21.0	58.4		1
01667	Sodium	7440-23-5	1,160		43.6	117		1
07968	Strontium	7440-24-6	33.0		0.0725	0.584		1
06969	Tin	7440-31-5	2.89	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,370		0.444	1.17		1
10146	Zirconium	7440-67-7	1.67	J	0.982	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0701	U	0.0701	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.26		0.0935	0.468		2
06126	Barium	7440-39-3	88.2		0.126	0.468		2
06127	Beryllium	7440-41-7	0.656		0.0187	0.117		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-193-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194577
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7106 SDG#: DE071-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.0534 J	0.0468	0.117		2
06131	Chromium	7440-47-3	23.2	0.140	0.468		2
06132	Cobalt	7440-48-4	5.65	0.0234	0.117		2
06133	Copper	7440-50-8	9.14	0.0772	0.468		2
06135	Lead	7439-92-1	5.09	0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.237	0.0584	0.117		2
06139	Nickel	7440-02-0	15.8	0.117	0.468		2
06141	Selenium	7782-49-2	0.152 J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0236 J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.217	0.0351	0.117		2
06148	Vanadium	7440-62-2	40.3	0.0257	0.117		2
06149	Zinc	7440-66-6	54.8	0.655	3.51		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.2	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	499	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-193-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194577
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7106 SDG#: DE071-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-193-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/01/2011 23:30	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 16:04	Jason M Long	22.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:12	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 16:59	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/04/2011 16:04	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 19:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/04/2011 07:32	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:16	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:17	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2

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Sample Description: **SL-193-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194577
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7106 SDG#: DE071-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 08:07	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:07	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 15:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 21:32	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 12:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102A	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403A	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-194-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194578
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7107 SDG#: DE071-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.7		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.9		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.84
06192	Methylene Chloride	75-09-2	0.59	J	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.84

*=This limit was used in the evaluation of the final result
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Sample Description: SL-194-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194578
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7107 SDG#: DE071-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.84
06192	Toluene	108-88-3	0.11	J	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-194-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194578
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7107 SDG#: DE071-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

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Sample Description: SL-194-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194578
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7107 SDG#: DE071-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.
The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,300		5.71	22.7		1
07914	Boron	7440-42-8	2.45	J	1.01	5.68		1
01650	Calcium	7440-70-2	1,890		6.96	22.7		1
01654	Iron	7439-89-6	25,100		5.35	22.7		1
01656	Lithium	7439-93-2	23.5		0.25	2.3		1
01657	Magnesium	7439-95-4	4,230		2.88	11.4		1
06958	Manganese	7439-96-5	339		0.0886	0.568		1
10145	Phosphorus	7723-14-0	139		0.636	11.4		1
01662	Potassium	7440-09-7	1,480		20.4	56.8		1
01667	Sodium	7440-23-5	445		42.4	114		1
07968	Strontium	7440-24-6	26.0		0.0704	0.568		1
06969	Tin	7440-31-5	2.57	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,350		0.423	1.11		1
10146	Zirconium	7440-67-7	2.22	J	0.954	5.68		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0668	U	0.0668	0.223		2

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Sample Description: SL-194-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194578
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7107 SDG#: DE071-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.37	0.0891	0.445		2
06126	Barium	7440-39-3	102	0.120	0.445		2
06127	Beryllium	7440-41-7	0.792	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0846 J	0.0445	0.111		2
06131	Chromium	7440-47-3	22.8	0.134	0.445		2
06132	Cobalt	7440-48-4	5.52	0.0223	0.111		2
06133	Copper	7440-50-8	7.36	0.0735	0.445		2
06135	Lead	7439-92-1	6.38	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.408	0.0557	0.111		2
06139	Nickel	7440-02-0	13.9	0.111	0.445		2
06141	Selenium	7782-49-2	0.127 J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0564 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.250	0.0334	0.111		2
06148	Vanadium	7440-62-2	41.8	0.0245	0.111		2
06149	Zinc	7440-66-6	43.3	0.623	3.34		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0048 J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	344	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.08	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-194-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194578
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7107 SDG#: DE071-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-194-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/01/2011 23:52	Laura M Krieger	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 16:24	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:15	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 17:27	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/04/2011 16:36	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 19:36	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:20	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:18	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-194-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194578
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7107 SDG#: DE071-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 08:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:10	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 16:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 21:56	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 12:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102B	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403B	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-196-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194579
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7108 SDG#: DE071-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	0.69	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

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Sample Description: SL-196-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194579
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7108 SDG#: DE071-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.09	J	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.16
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-196-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194579
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7108 SDG#: DE071-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-196-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194579
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7108 SDG#: DE071-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	10		0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		5.52	22.0		1
07914	Boron	7440-42-8	1.73	J	0.977	5.49		1
01650	Calcium	7440-70-2	2,220		6.73	22.0		1
01654	Iron	7439-89-6	29,300		5.17	22.0		1
01656	Lithium	7439-93-2	22.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,840		13.9	54.9		5
06958	Manganese	7439-96-5	255		0.0856	0.549		1
10145	Phosphorus	7723-14-0	141		0.615	11.0		1
01662	Potassium	7440-09-7	1,380		19.8	54.9		1
01667	Sodium	7440-23-5	400		40.9	110		1
07968	Strontium	7440-24-6	26.5		0.0681	0.549		1
06969	Tin	7440-31-5	2.58	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,340		0.429	1.13		1
10146	Zirconium	7440-67-7	2.00	J	0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0678	U	0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-196-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194579
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7108 SDG#: DE071-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.23	0.0904	0.452		2
06126	Barium	7440-39-3	107	0.122	0.452		2
06127	Beryllium	7440-41-7	0.848	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0703 J	0.0452	0.113		2
06131	Chromium	7440-47-3	24.4	0.136	0.452		2
06132	Cobalt	7440-48-4	5.00	0.0226	0.113		2
06133	Copper	7440-50-8	6.93	0.0746	0.452		2
06135	Lead	7439-92-1	6.44	0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.445	0.0565	0.113		2
06139	Nickel	7440-02-0	12.5	0.113	0.452		2
06141	Selenium	7782-49-2	0.0989 J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0496 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.257	0.0339	0.113		2
06148	Vanadium	7440-62-2	43.9	0.0249	0.113		2
06149	Zinc	7440-66-6	39.1	0.633	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.94	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-196-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194579
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7108 SDG#: DE071-08

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-196-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/02/2011 00:15	Laura M Krieger	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 16:44	Jason M Long	20.16
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:18	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 17:56	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/04/2011 17:08	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110310001A	02/04/2011 15:38	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 19:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110310001A	01/31/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:47	John W Yanzuk II	5
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:24	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:35	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:14	David K Beck	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194579
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7108 SDG#: DE071-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:24	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 08:14	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:14	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 16:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 22:19	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 13:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102B	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403B	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-201-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194580
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7109 SDG#: DE071-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.7		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.84
06192	Methylene Chloride	75-09-2	1.4	J	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.84

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Sample Description: SL-201-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194580
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7109 SDG#: DE071-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.84
06192	Toluene	108-88-3	0.08	J	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.29
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-201-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194580
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7109 SDG#: DE071-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-201-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194580
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7109 SDG#: DE071-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.75	22.9		1
07914	Boron	7440-42-8	2.82	J	1.02	5.72		1
01650	Calcium	7440-70-2	2,270		7.01	22.9		1
01654	Iron	7439-89-6	26,800		5.38	22.9		1
01656	Lithium	7439-93-2	24.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,540		14.5	57.2		5
06958	Manganese	7439-96-5	286		0.0892	0.572		1
10145	Phosphorus	7723-14-0	248		0.640	11.4		1
01662	Potassium	7440-09-7	2,180		20.6	57.2		1
01667	Sodium	7440-23-5	103	J	42.6	114		1
07968	Strontium	7440-24-6	23.6		0.0709	0.572		1
06969	Tin	7440-31-5	2.41	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,290		0.426	1.12		1
10146	Zirconium	7440-67-7	2.28	J	0.960	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0673	U	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.20		0.0897	0.448		2
06126	Barium	7440-39-3	115		0.121	0.448		2
06127	Beryllium	7440-41-7	0.820		0.0179	0.112		2

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Sample Description: **SL-201-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194580
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7109 SDG#: DE071-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.0828 J	0.0448	0.112		2
06131	Chromium	7440-47-3	21.5	0.135	0.448		2
06132	Cobalt	7440-48-4	7.30	0.0224	0.112		2
06133	Copper	7440-50-8	8.16	0.0740	0.448		2
06135	Lead	7439-92-1	6.93	0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.563	0.0561	0.112		2
06139	Nickel	7440-02-0	14.6	0.112	0.448		2
06141	Selenium	7782-49-2	0.0990 J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0542 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.298	0.0336	0.112		2
06148	Vanadium	7440-62-2	41.9	0.0247	0.112		2
06149	Zinc	7440-66-6	48.3	0.628	3.36		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	423	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.57	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-201-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194580
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7109 SDG#: DE071-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-201-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/02/2011 00:37	Laura M Krieger	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 17:03	Jason M Long	20.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:22	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 18:25	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/07/2011 09:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 20:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:51	John W Yanzuk II	5
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:26	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-201-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194580
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7109 SDG#: DE071-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 08:17	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:17	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 16:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 22:42	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11040243201A	02/11/2011 13:29	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102B	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403B	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

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Analysis Report

Sample Description: SL-201-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194581
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7110 SDG#: DE071-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-201-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194581
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7110 SDG#: DE071-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-201-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194581
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7110 SDG#: DE071-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,500		5.49	21.8		1
07914	Boron	7440-42-8	1.21	J	0.971	5.45		1
01650	Calcium	7440-70-2	3,440		6.69	21.8		1
01654	Iron	7439-89-6	29,100		25.7	109		5
01656	Lithium	7439-93-2	26.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,760		2.77	10.9		1
06958	Manganese	7439-96-5	460		0.0851	0.545		1
10145	Phosphorus	7723-14-0	203		0.611	10.9		1
01662	Potassium	7440-09-7	1,930		19.6	54.5		1
01667	Sodium	7440-23-5	157		40.7	109		1
07968	Strontium	7440-24-6	29.6		0.0676	0.545		1
06969	Tin	7440-31-5	2.71	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,270		0.411	1.08		1
10146	Zirconium	7440-67-7	1.92	J	0.916	5.45		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0655	U	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.78		0.0873	0.436		2
06126	Barium	7440-39-3	110		0.118	0.436		2
06127	Beryllium	7440-41-7	0.880		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0503	J	0.0436	0.109		2
06131	Chromium	7440-47-3	27.7		0.131	0.436		2
06132	Cobalt	7440-48-4	6.72		0.0218	0.109		2
06133	Copper	7440-50-8	14.5		0.0720	0.436		2
06135	Lead	7439-92-1	8.53		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.450		0.0545	0.109		2
06139	Nickel	7440-02-0	16.6		0.109	0.436		2
06141	Selenium	7782-49-2	0.0596	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0888	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.309		0.0327	0.109		2
06148	Vanadium	7440-62-2	47.9		0.0240	0.109		2
06149	Zinc	7440-66-6	59.6		0.611	3.27		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0114	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.90	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194581
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7110 SDG#: DE071-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	428		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 18:53	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/07/2011 10:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 20:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:44	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:44	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	2	110325708003	02/08/2011 23:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/04/2011 07:56	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110325708003	02/04/2011 07:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:44	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:44	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	2	110325708003	02/08/2011 23:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	3	110325708003	02/08/2011 23:55	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-201-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194581
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7110 SDG#: DE071-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:44	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:44	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/04/2011 07:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:28	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 16:28	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:20	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 07:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202A	02/11/2011 17:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201A	02/09/2011 23:05	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11040243201A	02/11/2011 13:41	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202A	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201A	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102B	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403B	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-202-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194582
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7111 SDG#: DE071-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.8
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.8
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.8
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.8
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.7		0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.7		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.8
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.8
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.8
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.8
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.8
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.7		0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.8
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.8
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.7		0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3		0.8
06192	Methylene Chloride	75-09-2	0.71	J	0.22	3.7		0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.8

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Sample Description: **SL-202-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194582
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7111 SDG#: DE071-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.8
06192	Toluene	108-88-3	0.08	J	0.07	3.7		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.8
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.94
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: **SL-202-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194582
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7111 SDG#: DE071-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-202-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194582
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7111 SDG#: DE071-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,800		5.62	22.4		1
07914	Boron	7440-42-8	7.49		0.995	5.59		1
01650	Calcium	7440-70-2	2,530		6.85	22.4		1
01654	Iron	7439-89-6	28,300		5.27	22.4		1
01656	Lithium	7439-93-2	31.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,520		2.84	11.2		1
06958	Manganese	7439-96-5	186		0.0872	0.559		1
10145	Phosphorus	7723-14-0	177		0.626	11.2		1
01662	Potassium	7440-09-7	1,330		20.1	55.9		1
01667	Sodium	7440-23-5	459		41.7	112		1
07968	Strontium	7440-24-6	24.6		0.0693	0.559		1
06969	Tin	7440-31-5	2.32	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,160		0.421	1.11		1
10146	Zirconium	7440-67-7	2.57	J	0.939	5.59		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0718	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.74		0.0894	0.447		2
06126	Barium	7440-39-3	106		0.121	0.447		2
06127	Beryllium	7440-41-7	1.24		0.0179	0.112		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-202-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194582
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7111 SDG#: DE071-11

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium		7440-43-9	0.0808	J	0.0447	0.112		2
06131	Chromium		7440-47-3	25.3		0.134	0.447		2
06132	Cobalt		7440-48-4	12.3		0.0224	0.112		2
06133	Copper		7440-50-8	8.26		0.0738	0.447		2
06135	Lead		7439-92-1	11.8		0.0116	0.224		2
06138	Molybdenum		7439-98-7	0.685		0.0559	0.112		2
06139	Nickel		7440-02-0	13.9		0.112	0.447		2
06141	Selenium		7782-49-2	0.218	J	0.0447	0.447		2
06142	Silver		7440-22-4	0.0488	J	0.0134	0.112		2
06145	Thallium		7440-28-0	0.240		0.0335	0.112		2
06148	Vanadium		7440-62-2	51.5		0.0246	0.112		2
06149	Zinc		7440-66-6	44.0		0.626	3.35		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0138	J	0.0031	0.107		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.9		0.91	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.3	U	10.3	34.2		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.52	J	0.23	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	447		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	7.39		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	12.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

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Analysis Report

Sample Description: SL-202-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194582
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7111 SDG#: DE071-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-202-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110321AA	02/02/2011 01:00	Laura M Krieger	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110321AA	02/01/2011 17:23	Jason M Long	20.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201102923605	01/29/2011 15:28	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201102923605	01/29/2011 15:24	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 19:22	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/07/2011 10:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 20:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/08/2011 23:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:36	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:48	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:23	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:30	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2

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Analysis Report

Sample Description: SL-202-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194582
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7111 SDG#: DE071-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 08:23	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:23	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 08:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202B	02/11/2011 17:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201B	02/09/2011 23:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 14:00	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202B	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201B	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102B	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403B	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

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Analysis Report

Sample Description: SL-202-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

LLI Sample # SW 6194583
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:50

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7112 SDG#: DE071-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-202-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

LLI Sample # SW 6194583
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:50

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7112 SDG#: DE071-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: aniline							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-202-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

LLI Sample # SW 6194583
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:50

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7112 SDG#: DE071-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		5.47	21.7		1
07914	Boron	7440-42-8	9.86		0.967	5.43		1
01650	Calcium	7440-70-2	3,380		6.66	21.7		1
01654	Iron	7439-89-6	27,900		25.6	109		5
01656	Lithium	7439-93-2	33.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,720		2.76	10.9		1
06958	Manganese	7439-96-5	345		0.0848	0.543		1
10145	Phosphorus	7723-14-0	117		0.609	10.9		1
01662	Potassium	7440-09-7	1,200		19.6	54.3		1
01667	Sodium	7440-23-5	685		40.5	109		1
07968	Strontium	7440-24-6	32.1		0.0674	0.543		1
06969	Tin	7440-31-5	2.70	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,080		0.405	1.07		1
10146	Zirconium	7440-67-7	2.42	J	0.913	5.43		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0738	J	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.46		0.0853	0.426		2
06126	Barium	7440-39-3	98.5		0.115	0.426		2
06127	Beryllium	7440-41-7	0.868		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0735	J	0.0426	0.107		2
06131	Chromium	7440-47-3	25.2		0.128	0.426		2
06132	Cobalt	7440-48-4	7.05		0.0213	0.107		2
06133	Copper	7440-50-8	8.55		0.0703	0.426		2
06135	Lead	7439-92-1	7.30		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.449		0.0533	0.107		2
06139	Nickel	7440-02-0	13.4		0.107	0.426		2
06141	Selenium	7782-49-2	0.0947	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0749	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.216		0.0320	0.107		2
06148	Vanadium	7440-62-2	47.2		0.0234	0.107		2
06149	Zinc	7440-66-6	41.7		0.597	3.20		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0203	J	0.0030	0.104		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.87	1.1		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-202-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

LLI Sample # SW 6194583
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:50

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7112 SDG#: DE071-12*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	433		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLA026	02/09/2011 19:50	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11034SLA026	02/07/2011 11:04	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11034SLA026	02/03/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLA026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 21:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110325708003	02/04/2011 08:15	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	2	110325708003	02/09/2011 18:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

LLI Sample # SW 6194583
LLI Group # 1231013
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:50

Submitted: 01/29/2011 09:30
Reported: 02/28/2011 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7112 SDG#: DE071-12*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110325708003	02/03/2011 05:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06126	Barium	SW-846 6020	1	110321026001D	02/11/2011 08:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	110321026001A	02/11/2011 16:31	David K Beck	2
06131	Chromium	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06133	Copper	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06135	Lead	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110321026001C	02/11/2011 08:26	David K Beck	2
06139	Nickel	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06141	Selenium	SW-846 6020	1	110321026001B	02/11/2011 08:26	David K Beck	2
06142	Silver	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06145	Thallium	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
06149	Zinc	SW-846 6020	1	110321026001A	02/11/2011 08:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	110325711002	02/03/2011 08:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110325708003	02/02/2011 08:35	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110321026001	02/02/2011 08:58	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110325711002	02/02/2011 10:58	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040621202B	02/11/2011 17:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11040040201B	02/10/2011 01:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11040243201A	02/11/2011 14:06	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040621202B	02/10/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11040040201B	02/09/2011 14:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11031182102B	01/31/2011 11:45	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11031039403B	01/31/2011 11:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110321AA	Sample number(s): 6194572-6194573,6194575,6194577-6194580,6194582									
Acetone	6.7	U	6.7	8.0	ug/kg	149	134	32-209	11	30
Benzene	0.10	U	0.10	4.0	ug/kg	104	108	80-120	4	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	89	89	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	103	105	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	101	102	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	110	106	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	98	98	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	123	112	46-153	10	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98	102	72-120	4	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	90	95	75-120	5	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	84	89	75-120	6	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	112	116	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	104	107	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	94	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	90	87	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	107	110	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	98	99	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	92	95	78-120	4	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93	96	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69	69	22-131	1	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	108	101	58-120	8	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	111	110	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	108	108	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	109	106	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	100	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	90	93	78-120	3	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	93	96	79-120	3	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	75	79	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108	110	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	110	109	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	116	118	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	103	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	111	113	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	105	108	80-120	3	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	109	108	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	115	117	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	101	106	77-120	5	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91	92	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99	101	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98	102	80-120	4	30
Freon 113	0.11	U	0.11	4.0	ug/kg	121	123	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	93	94	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89	91	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	87	81	45-155	7	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	98	76-120	4	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	94	98	75-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	113	107	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	89	82	61-134	7	30
Methylene Chloride	0.96	J	0.24	4.0	ug/kg	110	109	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	98	102	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	100	103	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	110	114	80-120	3	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	106	100	71-123	6	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107	113	77-120	5	30
Toluene	0.25	J	0.08	4.0	ug/kg	102	107	80-120	5	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	85	87	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	76	78	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	105	107	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	109	110	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	102	80-120	4	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	104	106	58-133	2	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	100	71-123	5	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	92	97	79-120	5	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92	97	78-120	5	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	95	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104	109	80-120	4	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	91	95	80-120	4	30
Batch number: B110341AA	Sample number(s): 6194576									
Acetone	6.7	U	6.7	8.0	ug/kg	119		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	97		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	82		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	100		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	101		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	82		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	99		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	90		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	83		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	78		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	107		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	77		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	77		43-146		
Chloroform	0.12	J	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	70		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	85		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	84		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	106		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	92		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	87		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	89		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	58		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	95		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	106		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	94		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	79*		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	92		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	86		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	68		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	88		75-120		
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69		61-134		
Methylene Chloride	0.82	J	0.24	4.0	ug/kg	100		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	91		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	107		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	91		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.13	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	76		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	66*		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	93		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	94		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	86		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	86		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	76		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	83		80-120		
Batch number: E110321AA	Sample number(s): 6194572-6194573,6194575-6194580,6194582									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	112	115	70-130	3	30
Batch number: 11031SLB026	Sample number(s): 6194575-6194576									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	101		70-130		
Batch number: 11034SLA026	Sample number(s): 6194572-6194583									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	92		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	83		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	96		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	92		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	89		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	93		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	90		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	94		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	97		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		56-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	76		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	91		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	91		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	78		56-121		
Batch number: 11035SLA026	Sample number(s): 6194572-6194583									
Aniline	170 U		170.	500	ug/kg	31*		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	27		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	97		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	87		79-117		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	91		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	85		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	90		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	25		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	91		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	82		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	95		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	83		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	95		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	79		68-105		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170		170.	500	ug/kg	87		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	91		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	95		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	92		78-111		
Batch number: 11031A34A	Sample number(s): 6194575-6194576									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80	72	67-119	11	30
Batch number: 110320005A	Sample number(s): 6194575-6194576									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	97	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	97	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	108		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	105		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100	U	100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	108		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	92		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	105		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	106		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	104		80-120		
PETN	800	U	800.	2,400	ug/kg	113		80-120		
RDX	50	U	50.	120	ug/kg	108		75-131		
Tetryl	61	U	61.	120	ug/kg	90		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	109		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110310008A	Sample number(s): 6194575-6194576									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	105		80-126		
Batch number: 110310001A	Sample number(s): 6194573,6194576,6194579									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110350005A	Sample number(s): 6194572-6194583									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	64*	67*	75-125	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	125		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110330006A	Sample number(s): 6194575-6194576									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	86		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	69		66-113		
Batch number: 110310025A	Sample number(s): 6194575-6194576									
Ethanol	100 U		100.	500	ug/kg	100		75-112		
Isopropanol	100 U		100.	500	ug/kg	107		75-125		
Methanol	100 U		100.	500	ug/kg	100		75-134		
Batch number: 110330022A	Sample number(s): 6194575-6194576									
Diethylene glycol	11	U	11.	13	mg/kg	93		75-125		
Ethylene glycol	13	U	13.	13	mg/kg	89		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	103		75-125		
Batch number: 110320016A	Sample number(s): 6194575-6194576									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	86		75-125		
Batch number: 110321026001A	Sample number(s): 6194572-6194583									
Antimony	0.0600	U	0.0600	0.200	mg/kg	55		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	102		82-118		
Cadmium	0.0671	J	0.0400	0.100	mg/kg	104		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	108		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	104		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	103		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	99		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	107		78-122		
Batch number: 110321026001B	Sample number(s): 6194572-6194583									
Selenium	0.0400	U	0.0400	0.400	mg/kg	106		79-122		
Batch number: 110321026001C	Sample number(s): 6194572-6194583									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 110321026001D	Sample number(s): 6194572-6194583									
Barium	0.108	U	0.108	0.400	mg/kg	106		79-121		
Batch number: 110325708003	Sample number(s): 6194572-6194583									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	95		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	107		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.61	J	0.560	10.0	mg/kg	104		80-120		

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Quality Control Summary

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Reported: 02/28/11 at 09:15 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Potassium	18.0	U	18.0	50.0	mg/kg	105		78-110		
Sodium	37.3	U	37.3	100	mg/kg	106		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	108		79-121		
Tin	1.52	J	1.00	10.0	mg/kg	97		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	98		80-120		
Batch number: 110325711002	Sample number(s): 6194572-6194583									
Mercury	0.0027	U	0.0027	0.0936	mg/kg	104		88-123		
Batch number: 110345708002	Sample number(s): 6194572-6194583									
Calcium	6.13	U	6.13	20.0	mg/kg	96		88-110		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Titanium	0.380	U	0.380	1.00	mg/kg	101		80-120		
Batch number: 11039102201B	Sample number(s): 6194575-6194576									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	108		80-120		
Batch number: 11040040201A	Sample number(s): 6194572-6194581									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11040040201B	Sample number(s): 6194582-6194583									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11040243201A	Sample number(s): 6194572-6194583									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11040621202A	Sample number(s): 6194572-6194581									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11040621202B	Sample number(s): 6194582-6194583									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11031039403A	Sample number(s): 6194572-6194577									
22a pH by 9045C						100		95-105		
Batch number: 11031039403B	Sample number(s): 6194578-6194583									
22a pH by 9045C						100		95-105		
Batch number: 11031182102A	Sample number(s): 6194572-6194577									
32a OR Potential						100		98-102		
Batch number: 11031182102B	Sample number(s): 6194578-6194583									
32a OR Potential						100		98-102		
Batch number: 11039162402B	Sample number(s): 6194572-6194574,6194577-6194583									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11042162401A	Sample number(s): 6194575-6194576									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110321AA	Sample number(s): 6194572-6194573,6194575,6194577-6194580,6194582 UNSPK: 6194573								
Acetone	111		15-210						
Benzene	91		55-143						
Bromobenzene	66		43-139						
Bromochloromethane	96		60-137						
Bromodichloromethane	90		53-136						
Bromoform	89		38-124						
Bromomethane	99		42-168						
2-Butanone	90		37-163						
n-Butylbenzene	53		30-146						
sec-Butylbenzene	51		33-157						
tert-Butylbenzene	53		41-152						
Carbon Tetrachloride	100		45-153						
Chlorobenzene	81		49-135						
Chloroethane	91		39-152						
2-Chloroethyl Vinyl Ether	65		32-139						
Chloroform	98		61-142						
Chloromethane	92		51-163						
2-Chlorotoluene	61		42-146						
4-Chlorotoluene	62		39-145						
1,2-Dibromo-3-chloropropane	77		30-139						
Dibromochloromethane	97		51-128						
1,2-Dibromoethane	91		54-129						
Dibromomethane	93		57-130						
1,2-Dichlorobenzene	71		36-133						
1,3-Dichlorobenzene	62		34-134						
1,4-Dichlorobenzene	66		35-136						
Dichlorodifluoromethane	82		26-151						
1,1-Dichloroethane	99		63-142						
1,2-Dichloroethane	100		68-131						
1,1-Dichloroethene	110		61-149						
cis-1,2-Dichloroethene	89		60-136						
trans-1,2-Dichloroethene	98		59-142						
1,2-Dichloropropane	94		62-135						
1,3-Dichloropropane	93		58-129						
2,2-Dichloropropane	102		53-147						
1,1-Dichloropropene	86		54-145						
cis-1,3-Dichloropropene	72		51-131						
trans-1,3-Dichloropropene	80		49-129						
Ethylbenzene	69		44-141						
Freon 113	116		56-156						
Hexachlorobutadiene	46		10-155						
2-Hexanone	59		32-160						
Isopropylbenzene	57		38-144						
p-Isopropyltoluene	52		29-152						
Methyl Tertiary Butyl Ether	90		55-129						
4-Methyl-2-pentanone	63		46-139						
Methylene Chloride	96		61-141						
n-Propylbenzene	63		39-157						
Styrene	73		35-134						
1,1,1,2-Tetrachloroethane	93		52-130						
1,1,2,2-Tetrachloroethane	84		40-152						
Tetrachloroethene	78		42-149						
Toluene	84		50-146						

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichlorobenzene	56		10-140						
1,2,4-Trichlorobenzene	45		10-136						
1,1,1-Trichloroethane	95		64-142						
1,1,2-Trichloroethane	98		54-139						
Trichloroethene	83		53-144						
Trichlorofluoromethane	110		47-163						
1,2,3-Trichloropropane	81		45-154						
1,2,4-Trimethylbenzene	59		37-149						
1,3,5-Trimethylbenzene	58		38-150						
Vinyl Chloride	94		50-154						
m+p-Xylene	74		44-137						
o-Xylene	62		42-137						
Batch number: B110341AA	Sample number(s): 6194576 UNSPK: P197571								
Acetone	106	105	15-210	6	30				
Benzene	98	98	55-143	8	30				
Bromobenzene	76	81	43-139	14	30				
Bromochloromethane	102	101	60-137	6	30				
Bromodichloromethane	95	94	53-136	5	30				
Bromoform	94	95	38-124	7	30				
Bromomethane	88	81	42-168	2	30				
2-Butanone	83	87	37-163	11	30				
n-Butylbenzene	66	77	30-146	23	30				
sec-Butylbenzene	64	75	33-157	22	30				
tert-Butylbenzene	63	73	41-152	21	30				
Carbon Tetrachloride	109	109	45-153	7	30				
Chlorobenzene	93	95	49-135	9	30				
Chloroethane	83	78	39-152	1	30				
2-Chloroethyl Vinyl Ether	70	71	32-139	7	30				
Chloroform	104	102	61-142	5	30				
Chloromethane	84	75	51-163	4	30				
2-Chlorotoluene	75	81	42-146	15	30				
4-Chlorotoluene	75	82	39-145	16	30				
Chlorotrifluoroethene	76	82	70-130	1	30				
1,2-Dibromo-3-chloropropane	76	78	30-139	10	30				
Dibromochloromethane	104	101	51-128	5	30				
1,2-Dibromoethane	93	94	54-129	8	30				
Dibromomethane	95	96	57-130	8	30				
1,2-Dichlorobenzene	83	87	36-133	13	30				
1,3-Dichlorobenzene	75	82	34-134	16	30				
1,4-Dichlorobenzene	78	84	35-136	15	30				
Dichlorodifluoromethane	63	53	26-151	10	30				
1,1-Dichloroethane	104	104	63-142	7	30				
1,2-Dichloroethane	101	99	68-131	5	30				
1,1-Dichloroethene	116	115	61-149	6	30				
cis-1,2-Dichloroethene	96	97	60-136	7	30				
trans-1,2-Dichloroethene	107	101	59-142	1	30				
1,2-Dichloropropane	97	98	62-135	8	30				
1,3-Dichloropropane	94	96	58-129	9	30				
2,2-Dichloropropane	109	109	53-147	7	30				
1,1-Dichloropropene	93	94	54-145	8	30				
cis-1,3-Dichloropropene	76	78	51-131	10	30				
trans-1,3-Dichloropropene	81	86	49-129	12	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	81	85	44-141	11	30				
Freon 113	121	120	56-156	6	30				
Freon 133a	84	96	70-130	5	30				
Hexachlorobutadiene	59	70	10-155	23	30				
2-Hexanone	56	59	32-160	13	30				
Isopropylbenzene	71	77	38-144	15	30				
p-Isopropyltoluene	65	77	29-152	22	30				
Methyl Tertiary Butyl Ether	93	90	55-129	4	30				
4-Methyl-2-pentanone	60	62	46-139	11	30				
Methylene Chloride	100	99	61-141	6	30				
n-Propylbenzene	74	84	39-157	19	30				
Styrene	83	87	35-134	12	30				
1,1,1,2-Tetrachloroethane	103	103	52-130	7	30				
1,1,2,2-Tetrachloroethane	84	87	40-152	10	30				
Tetrachloroethene	94	96	42-149	10	30				
Toluene	94	96	50-146	10	30				
1,2,3-Trichlorobenzene	64	68	10-140	13	30				
1,2,4-Trichlorobenzene	54	59	10-136	15	30				
1,1,1-Trichloroethane	106	106	64-142	6	30				
1,1,2-Trichloroethane	99	99	54-139	7	30				
Trichloroethene	91	93	53-144	9	30				
Trichlorofluoromethane	101	95	47-163	2	30				
1,2,3-Trichloropropane	85	90	45-154	13	30				
1,2,4-Trimethylbenzene	71	79	37-149	18	30				
1,3,5-Trimethylbenzene	71	80	38-150	19	30				
Vinyl Chloride	83	77	50-154	0	30				
m+p-Xylene	89	92	44-137	10	30				
o-Xylene	74	77	42-137	11	30				
Batch number: 11031SLB026	Sample number(s): 6194575-6194576 UNSPK: P192757								
N-Nitrosodimethylamine	89	78	70-130	11	30				
Batch number: 11034SLA026	Sample number(s): 6194572-6194583 UNSPK: 6194572								
Acenaphthene	91	89	63-105	2	30				
Acenaphthylene	86	85	67-114	2	30				
Anthracene	90	91	60-122	1	30				
Benzo(a)anthracene	97	96	59-128	1	30				
Benzo(a)pyrene	88	90	45-138	2	30				
Benzo(b)fluoranthene	92	91	43-155	0	30				
Benzo(g,h,i)perylene	80	75	33-141	7	30				
Benzo(k)fluoranthene	96	96	42-144	0	30				
Butylbenzylphthalate	105	111	57-173	5	30				
Di-n-butylphthalate	100	102	65-148	2	30				
Chrysene	96	94	48-134	2	30				
Dibenz(a,h)anthracene	84	78	22-133	8	30				
Diethylphthalate	92	86	70-136	6	30				
Dimethylphthalate	98	98	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	108	122	39-167	12	30				
Fluoranthene	100	103	26-166	3	30				
Fluorene	96	94	66-122	2	30				
Indeno(1,2,3-cd)pyrene	83	76	21-143	9	30				
1-Methylnaphthalene	92	89	72-123	4	30				
2-Methylnaphthalene	79	85	64-103	8	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	82	83	61-102	1	30				
N-Nitrosodimethylamine	87	75	48-113	15	30				
Di-n-octylphthalate	99	102	40-192	2	30				
Phenanthrene	92	95	12-165	4	30				
Pyrene	94	87	15-153	8	30				
Batch number: 11035SLA026	Sample number(s): 6194572-6194583 UNSPK: 6194572								
Aniline	72	74	35-95	4	30				
Benzidine	43	37	35-141	16	30				
Benzoic acid	88	84	10-173	4	30				
Benzyl alcohol	89	93	67-115	5	30				
4-Bromophenyl-phenylether	92	96	67-129	4	30				
Carbazole	99	101	64-120	2	30				
4-Chloro-3-methylphenol	91	96	76-110	5	30				
4-Chloroaniline	79	85	23-95	7	30				
bis(2-Chloroethoxy)methane	91	91	75-104	0	30				
bis(2-Chloroethyl)ether	91	89	60-116	3	30				
bis(2-Chloroisopropyl)ether	93	91	55-142	2	30				
2-Chloronaphthalene	84	84	50-141	0	30				
2-Chlorophenol	99	97	73-121	2	30				
4-Chlorophenyl-phenylether	95	93	80-109	2	30				
Dibenzofuran	95	92	71-112	4	30				
1,2-Dichlorobenzene	86	81	66-108	6	30				
1,3-Dichlorobenzene	82	78	63-109	6	30				
1,4-Dichlorobenzene	83	79	70-100	6	30				
3,3'-Dichlorobenzidine	72	75	16-119	4	30				
2,4-Dichlorophenol	92	94	78-117	3	30				
2,4-Dimethylphenol	92	93	78-110	1	30				
3,5-Dimethylphenol	98	100	70-130	2	30				
4,6-Dinitro-2-methylphenol	92	94	24-116	3	30				
2,4-Dinitrophenol	89	88	20-143	1	30				
2,4-Dinitrotoluene	98	97	73-113	1	30				
2,6-Dinitrotoluene	93	96	69-123	2	30				
1,2-Diphenylhydrazine	99	95	71-129	3	30				
bis(2-Ethylhexyl)phthalate	102	98	63-122	4	30				
Hexachlorobenzene	94	99	77-114	6	30				
Hexachlorobutadiene	84	83	62-120	1	30				
Hexachlorocyclopentadiene	94	89	10-153	5	30				
Hexachloroethane	79	75	57-109	6	30				
Isophorone	95	92	73-102	3	30				
2-Methylphenol	97	98	75-111	0	30				
4-Methylphenol	95	97	71-111	2	30				
2-Nitroaniline	98	96	67-125	1	30				
3-Nitroaniline	95	95	59-122	0	30				
4-Nitroaniline	79	84	52-112	6	30				
Nitrobenzene	93	91	72-106	1	30				
2-Nitrophenol	95	95	74-115	1	30				
4-Nitrophenol	84	81	54-113	4	30				
N-Nitroso-di-n-propylamine	95	94	60-116	1	30				
N-Nitrosodiphenylamine	94	95	86-145	2	30				
Pentachlorophenol	86	88	28-127	2	30				
Phenol	99	98	58-126	1	30				
1,2,4-Trichlorobenzene	90	86	72-115	5	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,5-Trichlorophenol	93	92	78-109	1	30				
2,4,6-Trichlorophenol	97	91	77-115	6	30				
Batch number: 110320005A	Sample number(s): 6194575-6194576 UNSPK: P192756								
4-Amino-2,6-Dinitrotoluene	110	111	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	111	112	80-137	1	50				
1,3-Dinitrobenzene	110	111	38-166	1	50				
2,4-Dinitrotoluene	108	109	80-131	1	50				
2,6-Dinitrotoluene	112	110	80-127	1	50				
HMX	101	100	63-128	1	50				
Nitrobenzene	110	113	80-125	3	50				
Nitroglycerin	101	102	80-120	0	50				
2-Nitrotoluene	108	108	80-122	0	50				
3-Nitrotoluene	108	109	72-119	1	50				
4-Nitrotoluene	107	106	80-125	0	50				
PETN	117	118	80-121	1	50				
RDX	105	106	75-129	0	50				
Tetryl	81	78	55-174	4	50				
1,3,5-Trinitrobenzene	111	111	82-126	1	50				
2,4,6-Trinitrotoluene	108	109	82-130	1	50				
Batch number: 110310008A	Sample number(s): 6194575-6194576 UNSPK: P192756								
17a Formaldehyde by 8315A	103	93	80-120	10	50				
Batch number: 110310001A	Sample number(s): 6194573,6194576,6194579 UNSPK: P189220								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 110350005A	Sample number(s): 6194572-6194583 UNSPK: P197571								
PCB-1016	92	71	29-146	26	50				
PCB-1260	114	94	39-149	19	50				
Batch number: 110330006A	Sample number(s): 6194575-6194576 UNSPK: P192756								
EFH (C12-C14)	82	85	49-123	3	20				
EFH (C15-C20)	114	155*	49-123	24*	20				
EFH (C21-C30)	182 (2)	903 (2)	49-123	56*	20				
EFH (C30 - C40)	470 (2)	2351 (2)	49-123	69*	20				
EFH (C8-C11)	77	64	49-123	18	20				
Batch number: 110310025A	Sample number(s): 6194575-6194576 UNSPK: P192761								
Ethanol	82	82	24-143	0	20				
Isopropanol	89	89	75-125	0	20				
Methanol	83	82	45-136	1	20				
Batch number: 110330022A	Sample number(s): 6194575-6194576 UNSPK: P193662								
Diethylene glycol	85	79	59-109	7	20				
Ethylene glycol	87	81	63-107	7	20				
Propylene glycol	97	91	63-107	6	20				
Batch number: 110320016A	Sample number(s): 6194575-6194576 UNSPK: P193662								
m-Terphenyl	85	84	75-125	1	20				
o-Terphenyl	88	97	75-125	10	20				
p-Terphenyl	72*	75	75-125	3	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110321026001A	Sample number(s): 6194572-6194583 UNSPK: 6194576 BKG: 6194576								
Antimony	18*	14*	75-125	17	20	0.0798 J	0.0588 U	200* (1)	20
Arsenic	82	48*	75-125	10	20	5.29	4.52	16	20
Beryllium	91	87	75-125	2	20	0.644	0.594	8	20
Cadmium	106	106	75-125	2	20	0.146	0.124	16 (1)	20
Chromium	90	85	75-125	1	20	20.0	18.1	10	20
Cobalt	85	85	75-125	1	20	5.00	4.83	3	20
Copper	82	83	75-125	1	20	9.03	8.54	6	20
Lead	114	70*	75-125	11	20	8.42	7.91	6	20
Nickel	88	88	75-125	1	20	11.9	11.5	4	20
Silver	98	99	75-125	3	20	0.0551 J	0.0426 J	26* (1)	20
Thallium	102	101	75-125	0	20	0.236	0.220	7 (1)	20
Vanadium	102	77	75-125	5	20	35.2	31.9	10	20
Zinc	97 (2)	103 (2)	75-125	1	20	44.0	44.1	0	20
Batch number: 110321026001B	Sample number(s): 6194572-6194583 UNSPK: 6194576 BKG: 6194576								
Selenium	91	94	75-125	5	20	0.112 J	0.103 J	9 (1)	20
Batch number: 110321026001C	Sample number(s): 6194572-6194583 UNSPK: 6194576 BKG: 6194576								
Molybdenum	85	88	75-125	6	20	0.415	0.446	7 (1)	20
Batch number: 110321026001D	Sample number(s): 6194572-6194583 UNSPK: 6194576 BKG: 6194576								
Barium	138 (2)	129 (2)	75-125	1	20	95.2	93.3	2	20
Batch number: 110325708003	Sample number(s): 6194572-6194583 UNSPK: 6194576 BKG: 6194576								
Aluminum	1979 (2)	1785 (2)	75-125	2	20	17,600	17,500	0	20
Boron	99	100	84-115	1	20	1.74 J	1.72 J	1 (1)	20
Calcium	170 (2)	159 (2)	75-125	1	20	2,740	2,890	5	20
Iron	1315 (2)	1559 (2)	75-125	1	20	20,500	22,400	9	20
Lithium	105	103	82-114	2	20	21.7	22.0	2 (1)	20
Magnesium	188 (2)	167 (2)	75-125	1	20	3,860	4,030	4	20
Manganese	253 (2)	200 (2)	75-125	8	20	232	246	6	20
Phosphorus	119	119	75-125	0	20	190	220	15	20
Potassium	105	136*	75-125	9	20	2,210	2,150	3	20
Sodium	93	99	75-125	6	20	106	109	3 (1)	20
Strontium	101	102	75-115	1	20	23.4	24.2	3	20
Tin	83	84	80-110	1	20	2.35 J	2.38 J	1 (1)	20
Zirconium	83	96	75-125	14	20	1.86 J	2.58 J	32* (1)	20
Batch number: 110325711002	Sample number(s): 6194572-6194583 UNSPK: 6194576 BKG: 6194576								
Mercury	107	106	65-135	2	20	0.0070 J	0.0058 J	19 (1)	20
Batch number: 110345708002	Sample number(s): 6194572-6194583 UNSPK: P197571 BKG: P197571								
Calcium	91 (2)	88 (2)	75-125	0	20	2,820	2,910	3	20
Potassium	122	119	75-125	1	20	1,590	1,500	6	20
Sodium	95	94	75-125	2	20	155	155	0 (1)	20
Titanium	209 (2)	192 (2)	75-125	1	20	1,160	1,150	1	20
Batch number: 11039102201B	Sample number(s): 6194575-6194576 UNSPK: P193665 BKG: P193665								
21a Cyanide by 9012B	102		75-125			0.18 U	0.17 U	0 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11040040201A	Sample number(s): 6194572-6194581					UNSPK: 6194572		BKG: 6194572			
7a Perchlorate EPA 314.0	96		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11040040201B	Sample number(s): 6194582-6194583					UNSPK: 6194582		BKG: 6194582			
7a Perchlorate EPA 314.0	104		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11040243201A	Sample number(s): 6194572-6194583					UNSPK: P197571		BKG: P197571			
3a Cr VI by EPA 7199	91		75-125			0.32	J	0.20	U	200* (1)	20
Batch number: 11040621202A	Sample number(s): 6194572-6194581					UNSPK: 6194572		BKG: 6194572			
11a Anions by 300.0 - Fluoride	49*		80-120			2.2		2.4		7 (1)	20
11a Anions by 300.0 - Nitrate	99		80-120			1.3	J	1.3	J	7 (1)	20
Batch number: 11040621202B	Sample number(s): 6194582-6194583					UNSPK: 6194582		BKG: 6194582			
11a Anions by 300.0 - Fluoride	29*		80-120			1.6		1.8		8 (1)	20
Batch number: 11031039403A	Sample number(s): 6194572-6194577					BKG: P193669					
22a pH by 9045C						6.50		6.50		0	1
Batch number: 11031039403B	Sample number(s): 6194578-6194583					BKG: 6194578					
22a pH by 9045C						7.08		7.09		0	1
Batch number: 11031182102A	Sample number(s): 6194572-6194577					BKG: P193669					
32a OR Potential						410		410		0	6
Batch number: 11031182102B	Sample number(s): 6194578-6194583					BKG: 6194578					
32a OR Potential						344		350		2	6
Batch number: 11039162402B	Sample number(s): 6194572-6194574,6194577-6194583					BKG: 6194579					
28a Moisture Content by 160.3						12.4		12.3		1	20
Batch number: 11042162401A	Sample number(s): 6194575-6194576					BKG: 6194575					
28a Moisture Content by 160.3						12.2		12.1		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110321AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6194572	115	110	102	85
6194573	117	110	101	82
6194575	115	105	104	80
6194577	118	114	101	81
6194578	117	109	103	83
6194579	116	107	102	84

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Surrogate Quality Control

6194580	118	108	102	83
6194582	119	110	101	82
Blank	114	109	101	85
LCS	105	107	108	106
LCSD	104	106	109	106
MS	105	101	111	108
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6194576	117	109	102	79
Blank	117	109	100	83
LCS	104	104	109	106
MS	106	104	110	106
MSD	103	100	109	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110321AA

	Toluene-d8
6194572	95
6194573	95
6194575	95
6194576	95
6194577	95
6194578	95
6194579	95
6194580	95
6194582	95
Blank	95
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 19a NDMA by 1625C
Batch number: 11031SLB026

	N-Nitrosodimethylamine-d6
6194575	488*
6194576	107
Blank	77
LCS	65
MS	97
MSD	96
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11034SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Surrogate Quality Control

6194572	78	78	78
6194573	85	76	87
6194574	89	81	88
6194575	91	85	81
6194576	91	80	92
6194577	89	82	85
6194578	87	81	83
6194579	86	87	87
6194580	91	83	84
6194581	102	85	89
6194582	98	80	86
6194583	99	84	88
Blank	94	86	85
LCS	97	86	81
MS	91	79	88
MSD	96	80	88
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11035SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6194572	85	87	89	85	79	79
6194573	85	87	99	87	84	82
6194574	84	84	95	81	80	78
6194575	88	89	95	84	83	76
6194576	93	97	99	87	92	79
6194577	87	90	100	86	85	77
6194578	91	89	95	86	82	81
6194579	84	90	96	87	81	82
6194580	84	87	94	86	78	79
6194581	83	85	85	82	80	75
6194582	91	89	95	83	81	78
6194583	84	87	94	86	80	80
Blank	93	92	96	94	85	84
LCS	88	89	89	86	86	74
MS	91	94	92	86	87	80
MSD	92	91	92	85	85	78
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11031A34A

	Trifluorotoluene-F
6194575	77
6194576	70
Blank	78
LCS	99
LCSD	89
Limits:	61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110310008A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Surrogate Quality Control

	Butyraldehyde
6194575	96
6194576	91
Blank	104
LCS	104
MS	98
MSD	92
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110320005A

	2-Nitro-m-xylene
6194575	131
6194576	135
Blank	126
LCS	118
LCSD	123
MS	125
MSD	123
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110350005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6194572	88	125*
6194573	86	119
6194574	91	126*
6194575	81	116
6194576	92	132*
6194577	87	127*
6194578	87	122*
6194579	83	120
6194580	91	128*
6194581	79	124*
6194582	101	141*
6194583	82	118
Blank	87	115
LCS	79	122*
LCSD	79	108
MS	95	121*
MSD	81	106
Limits:	53-139	45-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 110310025A

	Acetone
6194575	89
6194576	90
Blank	98
LCS	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231013
Reported: 02/28/11 at 09:15 AM

Surrogate Quality Control

MS	83
MSD	82
Limits:	42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110320016A

	n-Triacontane-d62
6194575	100
6194576	109
Blank	105
LCS	106
MS	107
MSD	137
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110330006A

	Chlorobenzene	Orthoterphenyl
6194575	68	82
6194576	73	85
Blank	74	83
LCS	76	86
MS	83	92
MSD	84	94
Limits:	37-125	47-145

Analysis Name: 27a Glycols by 8015B
Batch number: 110330022A

	Tetramethylene glycol
6194575	53
6194576	58
Blank	97
LCS	100
MS	94
MSD	89
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap# 1231013 Sample# 6194572-S3

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected. Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-178-SA5B-SB-4.5	1.28.2011	1259	soil	NONE	4-Encore samplers									X	X												
SL-178-SA5B-SB-4.0-5.0	1.28.2011	1304	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-179-SA5B-SB-4.5	1.28.2011	1340	soil	NONE	4-Encore samplers									X	X												
SL-179-SA5B-SB-4.0-5.0	1.28.2011	1345	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-179-SA5B-SB-7.0-8.0	1.28.2011	1330	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-183-SA5B-SB-4.5	1.28.2011	0914	soil	NONE	5-Encore samplers									X	X	X											
SL-183-SA5B-SB-4.0-5.0	1.28.2011	0919	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-184-SA5B-SB-3.5	1.28.2011	1025	soil	NONE	5-Encore samplers									X	X	X											
SL-184-SA5B-SB-3.0-4.0	1.28.2011	1029	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-193-SA5B-SB-4.5	1.28.2011	1030	soil	NONE	4-Encore samplers									X	X												
SL-193-SA5B-SB-4.0-5.0	1.28.2011	1034	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-194-SA5B-SB-4.5	1.28.2011	1158	soil	NONE	4-Encore samplers									X	X												
SL-194-SA5B-SB-4.0-5.0	1.28.2011	1203	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-196-SA5B-SB-4.5	1.28.2011	0920	soil	NONE	4-Encore samplers									X	X												
SL-196-SA5B-SB-4.0-5.0	1.28.2011	0924	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-201-SA5B-SB-4.5	1.28.2011	1350	soil	NONE	4-Encore samplers									X	X												
SL-201-SA5B-SB-4.0-5.0	1.28.2011	1355	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-201-SA5B-SB-9.0-10.0	1.28.2011	1400	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-202-SA5B-SB-4.5	1.28.2011	1440	soil	NONE	4-Encore samplers									X	X												
SL-202-SA5B-SB-4.0-5.0	1.28.2011	1444	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-202-SA5B-SB-7.0-8.0	1.28.2011	1450	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
~~TB-042811~~	~~1.28.2011~~	~~1630~~	~~water~~	~~HCl~~	~~4-40 mL VOA VIALS~~									~~X~~	~~X~~	~~X~~	Deleted per PB 11/2/11										TRIP BLANK
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)																									Laboratory:
	1/28/2011 / 17:00		1/29/11	930																							Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)																									No. of coolers = 2
		8695 1432 1012 8695 1432 2410																									

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/29/2011
Group Number: 1231014
SDG: DX045
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-178-SA5B-SB-4.0-5.0 Soil	6194584
SL-179-SA5B-SB-4.0-5.0 Soil	6194585
SL-179-SA5B-SB-7.0-8.0 Soil	6194586
SL-183-SA5B-SB-4.0-5.0 Soil	6194587
SL-184-SA5B-SB-3.0-4.0 Soil	6194588
SL-193-SA5B-SB-4.0-5.0 Soil	6194589
SL-194-SA5B-SB-4.0-5.0 Soil	6194590
SL-196-SA5B-SB-4.0-5.0 Soil	6194591
SL-201-SA5B-SB-4.0-5.0 Soil	6194592
SL-201-SA5B-SB-9.0-10.0 Soil	6194593

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-178-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194584
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX045-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-178-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194584
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX045-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0134	U	0.0134	1.16	1
11031	12378-PeCDD	40321-76-4	0.0161	U	0.0161	5.79	1
11031	123478-HxCDD	39227-28-6	0.0175	JQ	0.0171	5.79	1
11031	123678-HxCDD	57653-85-7	0.0192	JQ	0.0158	5.79	1
11031	123789-HxCDD	19408-74-3	0.0146	U	0.0146	5.79	1
11031	1234678-HpCDD	35822-46-9	0.232	JB	0.0232	5.79	1
11031	OCDD	3268-87-9	1.23	JB	0.0197	11.6	1
11031	2378-TCDF	51207-31-9	0.0159	JQ	0.0143	1.16	1
11031	12378-PeCDF	57117-41-6	0.0256	JBQ	0.00765	5.79	1
11031	23478-PeCDF	57117-31-4	0.0449	JBQ	0.00742	5.79	1
11031	123478-HxCDF	70648-26-9	0.0392	JBQ	0.0145	5.79	1
11031	123678-HxCDF	57117-44-9	0.0176	JBQ	0.00881	5.79	1
11031	123789-HxCDF	72918-21-9	0.0253	JBQ	0.00881	5.79	1
11031	234678-HxCDF	60851-34-5	0.0164	JBQ	0.00637	5.79	1
11031	1234678-HpCDF	67562-39-4	0.0441	JB	0.0194	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0168	U	0.0168	5.79	1
11031	OCDF	39001-02-0	0.147	JBQ	0.0268	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-178-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194584
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX045-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-178-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-178-SA5B-SB-4.0-5.0

LLI Sample # SW 6194584
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:04

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX045-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 04:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

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Analysis Report

Sample Description: **SL-179-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194585
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX045-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-179-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194585
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX045-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0224 U	0.0224	1.16	1
11031	12378-PeCDD	40321-76-4	0.0815 JBQ	0.0215	5.81	1
11031	123478-HxCDD	39227-28-6	0.0340 U	0.0340	5.81	1
11031	123678-HxCDD	57653-85-7	0.238 J	0.0313	5.81	1
11031	123789-HxCDD	19408-74-3	0.355 J	0.0276	5.81	1
11031	1234678-HpCDD	35822-46-9	2.10 JB	0.0352	5.81	1
11031	OCDD	3268-87-9	33.5 B	0.0263	11.6	1
11031	2378-TCDF	51207-31-9	0.0236 U	0.0236	1.16	1
11031	12378-PeCDF	57117-41-6	0.0933 JBQ	0.0124	5.81	1
11031	23478-PeCDF	57117-31-4	0.0981 JBQ	0.0103	5.81	1
11031	123478-HxCDF	70648-26-9	0.252 JB	0.0362	5.81	1
11031	123678-HxCDF	57117-44-9	0.0654 JB	0.0251	5.81	1
11031	123789-HxCDF	72918-21-9	0.287 JB	0.0220	5.81	1
11031	234678-HxCDF	60851-34-5	0.0494 JBQ	0.0169	5.81	1
11031	1234678-HpCDF	67562-39-4	0.297 JBQ	0.0199	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0536 JB	0.0194	5.81	1
11031	OCDF	39001-02-0	0.628 JBQ	0.0328	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	101	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-179-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194585
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX045-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-179-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-4.0-5.0

LLI Sample # SW 6194585
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:45

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX045-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 05:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

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Analysis Report

Sample Description: **SL-179-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194586
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX045-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-179-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194586
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX045-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0142	U	0.0142	1.15	1
11031	12378-PeCDD	40321-76-4	0.0165	U	0.0165	5.73	1
11031	123478-HxCDD	39227-28-6	0.0172	U	0.0172	5.73	1
11031	123678-HxCDD	57653-85-7	0.0159	U	0.0159	5.73	1
11031	123789-HxCDD	19408-74-3	0.0258	JQ	0.0133	5.73	1
11031	1234678-HpCDD	35822-46-9	0.161	JBQ	0.0178	5.73	1
11031	OCDD	3268-87-9	0.600	JB	0.0198	11.5	1
11031	2378-TCDF	51207-31-9	0.0160	U	0.0160	1.15	1
11031	12378-PeCDF	57117-41-6	0.0176	JBQ	0.00779	5.73	1
11031	23478-PeCDF	57117-31-4	0.0404	JB	0.00767	5.73	1
11031	123478-HxCDF	70648-26-9	0.0186	JBQ	0.0156	5.73	1
11031	123678-HxCDF	57117-44-9	0.00974	U	0.00974	5.73	1
11031	123789-HxCDF	72918-21-9	0.0212	JBQ	0.00825	5.73	1
11031	234678-HxCDF	60851-34-5	0.0127	JB	0.00722	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0426	JBQ	0.0127	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0123	U	0.0123	5.73	1
11031	OCDF	39001-02-0	0.0875	JBQ	0.0236	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-179-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194586
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX045-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-179-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5B-SB-7.0-8.0

LLI Sample # SW 6194586
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:30

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX045-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 06:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194587
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX045-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194587
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX045-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0167 U	0.0167	1.14	1
11031	12378-PeCDD	40321-76-4	0.0667 JBQ	0.0179	5.69	1
11031	123478-HxCDD	39227-28-6	0.0235 U	0.0235	5.69	1
11031	123678-HxCDD	57653-85-7	0.361 JQ	0.0232	5.69	1
11031	123789-HxCDD	19408-74-3	0.556 J	0.0196	5.69	1
11031	1234678-HpCDD	35822-46-9	0.485 JB	0.0238	5.69	1
11031	OCDD	3268-87-9	4.95 JB	0.0167	11.4	1
11031	2378-TCDF	51207-31-9	0.0172 U	0.0172	1.14	1
11031	12378-PeCDF	57117-41-6	0.0861 JB	0.00752	5.69	1
11031	23478-PeCDF	57117-31-4	0.0600 JBQ	0.00774	5.69	1
11031	123478-HxCDF	70648-26-9	0.0396 JBQ	0.0178	5.69	1
11031	123678-HxCDF	57117-44-9	0.0416 JB	0.0118	5.69	1
11031	123789-HxCDF	72918-21-9	0.392 JB	0.0107	5.69	1
11031	234678-HxCDF	60851-34-5	0.0443 JB	0.00991	5.69	1
11031	1234678-HpCDF	67562-39-4	0.104 JB	0.00820	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0336 JBQ	0.0100	5.69	1
11031	OCDF	39001-02-0	0.208 JBQ	0.0239	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	110	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-183-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194587
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX045-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5B-SB-4.0-5.0

LLI Sample # SW 6194587
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:19

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX045-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 07:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-184-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194588
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX045-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-184-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194588
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX045-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0214	U	0.0214	1.17	1
11031	12378-PeCDD	40321-76-4	0.158	JBQ	0.0376	5.83	1
11031	123478-HxCDD	39227-28-6	0.252	JQ	0.0502	5.83	1
11031	123678-HxCDD	57653-85-7	0.836	J	0.0464	5.83	1
11031	123789-HxCDD	19408-74-3	0.653	J	0.0389	5.83	1
11031	1234678-HpCDD	35822-46-9	19.6	B	0.0390	5.83	1
11031	OCDD	3268-87-9	171	B	0.0288	11.7	1
11031	2378-TCDF	51207-31-9	0.107	JQ	0.0385	1.17	1
11031	12378-PeCDF	57117-41-6	0.0977	JBQ	0.0169	5.83	1
11031	23478-PeCDF	57117-31-4	0.0156	U	0.0156	5.83	1
11031	123478-HxCDF	70648-26-9	0.519	JB	0.0541	5.83	1
11031	123678-HxCDF	57117-44-9	0.121	JBQ	0.0354	5.83	1
11031	123789-HxCDF	72918-21-9	0.202	JB	0.0238	5.83	1
11031	234678-HxCDF	60851-34-5	0.173	JB	0.0243	5.83	1
11031	1234678-HpCDF	67562-39-4	1.95	JB	0.0198	5.83	1
11031	1234789-HpCDF	55673-89-7	0.172	JBQ	0.0212	5.83	1
11031	OCDF	39001-02-0	5.27	JB	0.0275	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-184-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194588
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX045-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-184-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA5B-SB-3.0-4.0

LLI Sample # SW 6194588
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:29

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX045-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 08:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11042162401A	02/11/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-193-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194589
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX045-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-193-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194589
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX045-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0152 U	0.0152	1.18	1
11031	12378-PeCDD	40321-76-4	0.0204 JBQ	0.0152	5.90	1
11031	123478-HxCDD	39227-28-6	0.0149 U	0.0149	5.90	1
11031	123678-HxCDD	57653-85-7	0.0533 JQ	0.0157	5.90	1
11031	123789-HxCDD	19408-74-3	0.0808 J	0.0148	5.90	1
11031	1234678-HpCDD	35822-46-9	0.191 JBQ	0.0179	5.90	1
11031	OCDD	3268-87-9	0.920 JB	0.0151	11.8	1
11031	2378-TCDF	51207-31-9	0.0148 U	0.0148	1.18	1
11031	12378-PeCDF	57117-41-6	0.0200 JBQ	0.00673	5.90	1
11031	23478-PeCDF	57117-31-4	0.0407 JBQ	0.00614	5.90	1
11031	123478-HxCDF	70648-26-9	0.0199 JB	0.00980	5.90	1
11031	123678-HxCDF	57117-44-9	0.0196 JBQ	0.00638	5.90	1
11031	123789-HxCDF	72918-21-9	0.0405 JBQ	0.00732	5.90	1
11031	234678-HxCDF	60851-34-5	0.0152 JB	0.00685	5.90	1
11031	1234678-HpCDF	67562-39-4	0.0282 JBQ	0.00673	5.90	1
11031	1234789-HpCDF	55673-89-7	0.0106 U	0.0106	5.90	1
11031	OCDF	39001-02-0	0.101 JBQ	0.0216	11.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-193-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194589
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX045-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-193-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-193-SA5B-SB-4.0-5.0

LLI Sample # SW 6194589
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 10:34

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX045-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 09:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-194-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194590
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX045-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-194-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194590
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX045-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0360	U	0.0360	1.15	1
11031	12378-PeCDD	40321-76-4	0.0294	U	0.0294	5.73	1
11031	123478-HxCDD	39227-28-6	0.0280	U	0.0280	5.73	1
11031	123678-HxCDD	57653-85-7	0.0320	JQ	0.0279	5.73	1
11031	123789-HxCDD	19408-74-3	0.0513	J	0.0248	5.73	1
11031	1234678-HpCDD	35822-46-9	0.177	JB	0.0265	5.73	1
11031	OCDD	3268-87-9	0.924	JB	0.0405	11.5	1
11031	2378-TCDF	51207-31-9	0.0283	U	0.0283	1.15	1
11031	12378-PeCDF	57117-41-6	0.0357	JBQ	0.0147	5.73	1
11031	23478-PeCDF	57117-31-4	0.0297	JB	0.0128	5.73	1
11031	123478-HxCDF	70648-26-9	0.0574	JBQ	0.0212	5.73	1
11031	123678-HxCDF	57117-44-9	0.0285	JB	0.0147	5.73	1
11031	123789-HxCDF	72918-21-9	0.0461	JBQ	0.0164	5.73	1
11031	234678-HxCDF	60851-34-5	0.0351	JBQ	0.0138	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0405	JB	0.0132	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0183	JB	0.0173	5.73	1
11031	OCDF	39001-02-0	0.0780	JBQ	0.0409	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-194-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194590
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX045-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-194-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-194-SA5B-SB-4.0-5.0

LLI Sample # SW 6194590
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 12:03

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX045-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 10:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194591
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX045-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-196-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194591
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX045-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.245	U	0.245	1.14	1
11031	12378-PeCDD	40321-76-4	0.266	JBQ	0.214	5.71	1
11031	123478-HxCDD	39227-28-6	0.178	U	0.178	5.71	1
11031	123678-HxCDD	57653-85-7	0.221	JBQ	0.181	5.71	1
11031	123789-HxCDD	19408-74-3	0.278	JBQ	0.168	5.71	1
11031	1234678-HpCDD	35822-46-9	0.748	JB	0.227	5.71	1
11031	OCDD	3268-87-9	2.96	JBQ	0.224	11.4	1
11031	2378-TCDF	51207-31-9	0.199	U	0.199	1.14	1
11031	12378-PeCDF	57117-41-6	0.116	U	0.116	5.71	1
11031	23478-PeCDF	57117-31-4	0.116	U	0.116	5.71	1
11031	123478-HxCDF	70648-26-9	0.225	JBQ	0.123	5.71	1
11031	123678-HxCDF	57117-44-9	0.126	JBQ	0.106	5.71	1
11031	123789-HxCDF	72918-21-9	0.560	JBQ	0.133	5.71	1
11031	234678-HxCDF	60851-34-5	0.265	JBQ	0.112	5.71	1
11031	1234678-HpCDF	67562-39-4	0.205	JB	0.0878	5.71	1
11031	1234789-HpCDF	55673-89-7	0.386	JBQ	0.130	5.71	1
11031	OCDF	39001-02-0	0.206	U	0.206	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194591
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX045-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5B-SB-4.0-5.0

LLI Sample # SW 6194591
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 09:24

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX045-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11056001	03/03/2011 04:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11056001	02/25/2011 13:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-201-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194592
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX045-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-201-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194592
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX045-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.175	U	0.175	1.15	1
11031	12378-PeCDD	40321-76-4	0.179	JBQ	0.136	5.77	1
11031	123478-HxCDD	39227-28-6	0.144	JBQ	0.108	5.77	1
11031	123678-HxCDD	57653-85-7	0.110	U	0.110	5.77	1
11031	123789-HxCDD	19408-74-3	0.279	JBQ	0.111	5.77	1
11031	1234678-HpCDD	35822-46-9	0.352	JBQ	0.126	5.77	1
11031	OCDD	3268-87-9	2.42	JBQ	0.161	11.5	1
11031	2378-TCDF	51207-31-9	0.130	U	0.130	1.15	1
11031	12378-PeCDF	57117-41-6	0.209	JB	0.0773	5.77	1
11031	23478-PeCDF	57117-31-4	0.121	JBQ	0.0756	5.77	1
11031	123478-HxCDF	70648-26-9	0.131	JBQ	0.0794	5.77	1
11031	123678-HxCDF	57117-44-9	0.0817	JB	0.0676	5.77	1
11031	123789-HxCDF	72918-21-9	0.187	JB	0.0919	5.77	1
11031	234678-HxCDF	60851-34-5	0.193	JB	0.0677	5.77	1
11031	1234678-HpCDF	67562-39-4	0.112	JBQ	0.0548	5.77	1
11031	1234789-HpCDF	55673-89-7	0.158	JBQ	0.0844	5.77	1
11031	OCDF	39001-02-0	0.195	JBQ	0.140	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-201-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194592
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX045-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-201-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-4.0-5.0

LLI Sample # SW 6194592
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 13:55

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX045-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11056001	03/03/2011 05:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11056001	02/25/2011 13:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-201-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194593
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4521 SDG#: DX045-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194593
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4521 SDG#: DX045-21*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0229	U	0.0229	1.12	1
11031	12378-PeCDD	40321-76-4	0.0202	U	0.0202	5.62	1
11031	123478-HxCDD	39227-28-6	0.0211	U	0.0211	5.62	1
11031	123678-HxCDD	57653-85-7	0.0409	J	0.0188	5.62	1
11031	123789-HxCDD	19408-74-3	0.0454	JQ	0.0162	5.62	1
11031	1234678-HpCDD	35822-46-9	0.466	JB	0.0274	5.62	1
11031	OCDD	3268-87-9	2.89	JB	0.0196	11.2	1
11031	2378-TCDF	51207-31-9	0.0210	U	0.0210	1.12	1
11031	12378-PeCDF	57117-41-6	0.0147	JBQ	0.0101	5.62	1
11031	23478-PeCDF	57117-31-4	0.0495	JBQ	0.0103	5.62	1
11031	123478-HxCDF	70648-26-9	0.0215	U	0.0215	5.62	1
11031	123678-HxCDF	57117-44-9	0.0135	U	0.0135	5.62	1
11031	123789-HxCDF	72918-21-9	0.0531	JBQ	0.0119	5.62	1
11031	234678-HxCDF	60851-34-5	0.0214	JB	0.00910	5.62	1
11031	1234678-HpCDF	67562-39-4	0.0834	JBQ	0.0173	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0350	JBQ	0.0157	5.62	1
11031	OCDF	39001-02-0	0.206	JB	0.0345	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194593
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4521 SDG#: DX045-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-201-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5B-SB-9.0-10.0

LLI Sample # SW 6194593
LLI Group # 1231014
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:00

Submitted: 01/29/2011 09:30
Reported: 03/12/2011 13:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4521 SDG#: DX045-21*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046001	02/22/2011 16:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11046001	02/15/2011 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231014
Reported: 03/12/11 at 01:29 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11039162402B	Sample number(s): 6194584-6194586,6194589-6194593								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11042162401A	Sample number(s): 6194587-6194588								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11046001	Sample number(s): 6194584-6194590,6194593								
2378-TCDD	0.0231 U	0.0231	1.00	ng/kg	96		67-158		
12378-PeCDD	0.0370 J	0.0235	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0244 U	0.0244	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0234 U	0.0234	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0219 U	0.0219	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.157 J	0.0277	5.00	ng/kg	95		70-140		
OCDD	0.311 J	0.0242	10.0	ng/kg	93		78-144		
2378-TCDF	0.0237 U	0.0237	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0123 J	0.0114	5.00	ng/kg	94		80-134		
23478-PeCDF	0.0418 J	0.0120	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0660 J	0.0251	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0243 J	0.0153	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0336 J	0.0132	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0212 J	0.0116	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.0681 J	0.0120	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0345 J	0.0133	5.00	ng/kg	93		78-138		
OCDF	0.158 J	0.0404	10.0	ng/kg	93		63-170		
Batch number: 11056001	Sample number(s): 6194591-6194592								
2378-TCDD	0.327 U	0.327	1.00	ng/kg	102		67-158		
12378-PeCDD	1.01 J	0.300	5.00	ng/kg	95		70-142		
123478-HxCDD	0.756 J	0.265	5.00	ng/kg	92		70-164		
123678-HxCDD	0.715 J	0.277	5.00	ng/kg	91		76-134		
123789-HxCDD	0.728 J	0.248	5.00	ng/kg	96		64-162		
1234678-HpCDD	1.91 J	0.373	5.00	ng/kg	96		70-140		
OCDD	5.72 J	0.406	10.0	ng/kg	98		78-144		
2378-TCDF	0.218 U	0.218	1.00	ng/kg	106		75-158		
12378-PeCDF	0.694 J	0.149	5.00	ng/kg	98		80-134		
23478-PeCDF	0.579 J	0.146	5.00	ng/kg	95		68-160		
123478-HxCDF	0.719 J	0.202	5.00	ng/kg	97		72-134		
123678-HxCDF	0.595 J	0.192	5.00	ng/kg	95		84-130		
123789-HxCDF	1.24 J	0.216	5.00	ng/kg	98		78-130		
234678-HxCDF	0.739 J	0.192	5.00	ng/kg	97		70-156		
1234678-HpCDF	1.22 J	0.343	5.00	ng/kg	93		82-122		
1234789-HpCDF	1.03 J	0.411	5.00	ng/kg	99		78-138		
OCDF	1.98 J	0.345	10.0	ng/kg	97		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231014
Reported: 03/12/11 at 01:29 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11039162402B	Sample number(s): 6194584-6194586,6194589-6194593					BKG: P194579			
28a Moisture Content by 160.3						12.4	12.3	1	20
Batch number: 11042162401A	Sample number(s): 6194587-6194588					BKG: P194575			
28a Moisture Content by 160.3						12.2	12.1	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11046001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6194584	80	81	36	54	77	64
6194585	74	101	38	53	77	69
6194586	84	80	38	58	80	76
6194587	83	83	44	63	77	82
6194588	70	92	35	50	75	85
6194589	76	91	52	74	70	76
6194590	57	69	42	57	63	61
6194593	76	76	34	51	77	67
Blank	76	69	35	54	71	76
OPR	67	66	45	61	73	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6194584	52	68	69	88	83	57
6194585	57	71	75	86	101	62
6194586	61	75	75	93	84	67
6194587	80	80	85	92	89	71
6194588	68	75	76	84	90	70
6194589	97	76	75	94	88	84
6194590	75	70	67	67	66	63
6194593	54	68	60	86	85	61
Blank	59	66	68	93	74	71
OPR	68	65	67	83	68	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231014
Reported: 03/12/11 at 01:29 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6194584	67	69	72	85	68	84
6194585	68	79	77	91	71	90
6194586	74	85	87	90	67	86
6194587	76	88	94	110	71	90
6194588	76	86	87	97	63	91
6194589	82	83	93	98	72	90
6194590	65	73	88	82	63	65
6194593	71	83	83	86	71	85
Blank	74	78	80	84	69	76
OPR	72	76	77	82	66	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11056001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6194591	67	70	64	72	67	64
6194592	66	69	63	74	70	61
Blank	76	79	79	82	80	81
OPR	67	66	59	71	65	58
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6194591	80	63	60	89	71	71
6194592	85	63	62	86	73	71
Blank	79	77	75	83	79	79
OPR	80	55	54	87	69	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6194591	71	72	73	72	68	74
6194592	73	71	74	74	66	74
Blank	78	80	76	77	79	80
OPR	72	71	69	66	63	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# ~~123160~~ 1231014 Sample# 6194584-93

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected. Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-178-SA5B-SB-4.5	1.28.2011	1259	soil	NONE	4-Encore samplers									X	X												
SL-178-SA5B-SB-4.0-5.0	1.28.2011	1304	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-179-SA5B-SB-4.5	1.28.2011	1340	soil	NONE	4-Encore samplers									X	X												
SL-179-SA5B-SB-4.0-5.0	1.28.2011	1345	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-179-SA5B-SB-7.0-8.0	1.28.2011	1330	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-183-SA5B-SB-4.5	1.28.2011	0914	soil	NONE	5-Encore samplers									X	X	X											
SL-183-SA5B-SB-4.0-5.0	1.28.2011	0919	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-184-SA5B-SB-3.5	1.28.2011	1025	soil	NONE	5-Encore samplers									X	X	X											
SL-184-SA5B-SB-3.0-4.0	1.28.2011	1029	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X		
SL-193-SA5B-SB-4.5	1.28.2011	1030	soil	NONE	4-Encore samplers									X	X												
SL-193-SA5B-SB-4.0-5.0	1.28.2011	1034	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-194-SA5B-SB-4.5	1.28.2011	1158	soil	NONE	4-Encore samplers									X	X												
SL-194-SA5B-SB-4.0-5.0	1.28.2011	1203	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-196-SA5B-SB-4.5	1.28.2011	0920	soil	NONE	4-Encore samplers									X	X												
SL-196-SA5B-SB-4.0-5.0	1.28.2011	0924	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-201-SA5B-SB-4.5	1.28.2011	1350	soil	NONE	4-Encore samplers									X	X												
SL-201-SA5B-SB-4.0-5.0	1.28.2011	1355	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-201-SA5B-SB-9.0-10.0	1.28.2011	1400	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-202-SA5B-SB-4.5	1.28.2011	1440	soil	NONE	4-Encore samplers									X	X												
SL-202-SA5B-SB-4.0-5.0	1.28.2011	1444	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-202-SA5B-SB-7.0-8.0	1.28.2011	1450	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
TB-012511	1.28.2011	1630	Water	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)																									Laboratory:
	1/28/2011 / 17:00		1/29/11 930																								Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)																									
		8695 1432 1012 8695 1432 2410																									No. of coolers = 2

No TB per PB on 1/28/11. NM 2/2/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/29/2011
Group Number: 1231015
SDG: DX046
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-202-SA5B-SB-4.0-5.0 Soil	6194594
SL-202-SA5B-SB-7.0-8.0 Soil	6194595

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194594
LLI Group # 1231015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 03/03/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4601 SDG#: DX046-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-202-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194594
LLI Group # 1231015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 03/03/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4601 SDG#: DX046-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0448	U	0.0448	1.14	1
11031	12378-PeCDD	40321-76-4	0.0354	JB	0.0222	5.70	1
11031	123478-HxCDD	39227-28-6	0.0202	JBQ	0.0171	5.70	1
11031	123678-HxCDD	57653-85-7	0.0233	JBQ	0.0176	5.70	1
11031	123789-HxCDD	19408-74-3	0.0282	JB	0.0176	5.70	1
11031	1234678-HpCDD	35822-46-9	0.159	JBQ	0.0309	5.70	1
11031	OCDD	3268-87-9	0.442	JBQ	0.0300	11.4	1
11031	2378-TCDF	51207-31-9	0.0230	U	0.0230	1.14	1
11031	12378-PeCDF	57117-41-6	0.0193	JB	0.0107	5.70	1
11031	23478-PeCDF	57117-31-4	0.0504	JBQ	0.0113	5.70	1
11031	123478-HxCDF	70648-26-9	0.0314	JBQ	0.0161	5.70	1
11031	123678-HxCDF	57117-44-9	0.0238	JBQ	0.0113	5.70	1
11031	123789-HxCDF	72918-21-9	0.0392	JBQ	0.0147	5.70	1
11031	234678-HxCDF	60851-34-5	0.0249	JBQ	0.0112	5.70	1
11031	1234678-HpCDF	67562-39-4	0.0728	JBQ	0.0106	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0281	JBQ	0.0160	5.70	1
11031	OCDF	39001-02-0	0.154	JBQ	0.0454	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194594
LLI Group # 1231015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 03/03/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4601 SDG#: DX046-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-4.0-5.0

LLI Sample # SW 6194594
LLI Group # 1231015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:44

Submitted: 01/29/2011 09:30
Reported: 03/03/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4601 SDG#: DX046-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 04:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

LLI Sample # SW 6194595
LLI Group # 1231015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:50

Submitted: 01/29/2011 09:30
Reported: 03/03/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4602 SDG#: DX046-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-202-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

LLI Sample # SW 6194595
LLI Group # 1231015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:50

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Reported: 03/03/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4602 SDG#: DX046-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0236 U	0.0236	1.09	1
11031	12378-PeCDD	40321-76-4	0.0298 JBQ	0.0200	5.43	1
11031	123478-HxCDD	39227-28-6	0.0215 U	0.0215	5.43	1
11031	123678-HxCDD	57653-85-7	0.0395 JBQ	0.0203	5.43	1
11031	123789-HxCDD	19408-74-3	0.0360 JBQ	0.0174	5.43	1
11031	1234678-HpCDD	35822-46-9	0.276 JB	0.0315	5.43	1
11031	OCDD	3268-87-9	1.48 JB	0.0323	10.9	1
11031	2378-TCDF	51207-31-9	0.0213 U	0.0213	1.09	1
11031	12378-PeCDF	57117-41-6	0.0276 JBQ	0.0104	5.43	1
11031	23478-PeCDF	57117-31-4	0.0489 JBQ	0.0112	5.43	1
11031	123478-HxCDF	70648-26-9	0.0213 U	0.0213	5.43	1
11031	123678-HxCDF	57117-44-9	0.0293 JBQ	0.0146	5.43	1
11031	123789-HxCDF	72918-21-9	0.0116 U	0.0116	5.43	1
11031	234678-HxCDF	60851-34-5	0.0311 JBQ	0.0107	5.43	1
11031	1234678-HpCDF	67562-39-4	0.0736 JB	0.0154	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0313 JBQ	0.0165	5.43	1
11031	OCDF	39001-02-0	0.168 JBQ	0.0464	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	103	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

LLI Sample # SW 6194595
LLI Group # 1231015
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/28/2011 14:50

Submitted: 01/29/2011 09:30
Reported: 03/03/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4602 SDG#: DX046-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5B-SB-7.0-8.0

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Reported: 03/03/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4602 SDG#: DX046-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 05:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11039162402B	02/08/2011 10:32	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231015
Reported: 03/03/11 at 05:43 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11039162402B	Sample number(s): 6194594-6194595								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11041001	Sample number(s): 6194594-6194595								
2378-TCDD	0.0355 J	0.0281	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0443 J	0.0280	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0358 J	0.0202	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0308 J	0.0202	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0286 J	0.0187	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.174 J	0.0332	5.00	ng/kg	98		70-140		
OCDD	0.352 J	0.0266	10.0	ng/kg	95		78-144		
2378-TCDF	0.0315 J	0.0271	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0365 J	0.0131	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0628 J	0.0141	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0430 J	0.0142	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0232 J	0.0108	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0808 J	0.0142	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0444 J	0.0120	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0900 J	0.0106	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0688 J	0.0176	5.00	ng/kg	97		78-138		
OCDF	0.294 J	0.0459	10.0	ng/kg	99		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11039162402B	Sample number(s): 6194594-6194595 BKG: P194579								
28a Moisture Content by 160.3						12.4	12.3	1	20
Batch number: 11041001	Sample number(s): 6194594-6194595 UNSPK: P197634								
2378-TCDD	99	99	67-158	0	25				
12378-PeCDD	98	103	70-142	5	25				
123478-HxCDD	96	102	70-164	7	25				
123678-HxCDD	97	102	76-134	5	25				
123789-HxCDD	97	100	64-162	3	25				
1234678-HpCDD	98	99	70-140	1	25				
OCDD	96	99	78-144	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231015
Reported: 03/03/11 at 05:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	108	109	75-158	1	25				
12378-PeCDF	96	102	80-134	6	25				
23478-PeCDF	94	101	68-160	7	25				
123478-HxCDF	100	100	72-134	0	25				
123678-HxCDF	97	96	84-130	1	25				
123789-HxCDF	97	98	78-130	1	25				
234678-HxCDF	99	99	70-156	0	25				
1234678-HpCDF	96	96	82-122	1	25				
1234789-HpCDF	98	97	78-138	1	25				
OCDF	98	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11041001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6194594	77	76	56	77	78	69
6194595	86	79	42	58	82	82
Blank	70	74	67	87	79	78
MS	93	84	65	97	87	82
MSD	87	83	71	99	84	75
OPR	70	68	66	87	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6194594	81	68	65	86	95	86
6194595	56	64	59	86	103	70
Blank	92	67	72	88	78	84
MS	100	75	71	104	92	91
MSD	98	71	71	91	98	87
OPR	90	54	56	89	74	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6194594	85	87	86	79	70	87
6194595	78	90	83	77	82	89
Blank	85	87	85	90	67	84
MS	94	102	95	88	89	100
MSD	88	91	86	87	84	101
OPR	77	79	81	79	66	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231015
Reported: 03/03/11 at 05:43 PM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap# 1231015 sample# 6194594-45

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-178-SA5B-SB-4.5	1.28.2011	1259	soil	NONE	4-Encore samplers									X	X												
SL-178-SA5B-SB-4.0-5.0	1.28.2011	1304	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-179-SA5B-SB-4.5	1.28.2011	1340	soil	NONE	4-Encore samplers									X	X												
SL-179-SA5B-SB-4.0-5.0	1.28.2011	1345	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-179-SA5B-SB-7.0-8.0	1.28.2011	1330	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-183-SA5B-SB-4.5	1.28.2011	0914	soil	NONE	5-Encore samplers									X	X	X											
SL-183-SA5B-SB-4.0-5.0	1.28.2011	0919	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-184-SA5B-SB-3.5	1.28.2011	1025	soil	NONE	5-Encore samplers									X	X	X											
SL-184-SA5B-SB-3.0-4.0	1.28.2011	1029	soil	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-193-SA5B-SB-4.5	1.28.2011	1030	soil	NONE	4-Encore samplers									X	X												
SL-193-SA5B-SB-4.0-5.0	1.28.2011	1034	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-194-SA5B-SB-4.5	1.28.2011	1158	soil	NONE	4-Encore samplers									X	X												
SL-194-SA5B-SB-4.0-5.0	1.28.2011	1203	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-196-SA5B-SB-4.5	1.28.2011	0920	soil	NONE	4-Encore samplers									X	X												
SL-196-SA5B-SB-4.0-5.0	1.28.2011	0924	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-201-SA5B-SB-4.5	1.28.2011	1350	soil	NONE	4-Encore samplers									X	X												
SL-201-SA5B-SB-4.0-5.0	1.28.2011	1355	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-201-SA5B-SB-9.0-10.0	1.28.2011	1400	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-202-SA5B-SB-4.5	1.28.2011	1440	soil	NONE	4-Encore samplers									X	X												
SL-202-SA5B-SB-4.0-5.0	1.28.2011	1444	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-202-SA5B-SB-7.0-8.0	1.28.2011	1450	soil	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
~~TB-012811~~	~~1.28.2011~~	~~1630~~	~~water~~	~~HCl~~	~~4-40 ml. VOA VIALS~~									~~X~~	~~X~~	~~X~~											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		
	1/28/2011 / 17:00		1/29/11	930
Received by: (Signature)	Date/Time	Airbill No.(s)		
		8695 1432 1012 8695 1432 2410		

No TB per FB on 1/28/11. NM 2/2/11

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/02/2011
Group Number: 1231378
SDG: DE072
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-187-SA5B-SB-4.0-5.0 Soil	6196803
SL-188-SA5B-SB-4.0-5.0 Soil	6196804
SL-189-SA5B-SB-3.0-4.0 Soil	6196805
SL-190-SA5B-SB-4.0-5.0 Soil	6196806
SL-191-SA5B-SB-4.0-5.0 Soil	6196807
SL-276-SA5B-SB-4.0-5.0 Soil	6196808
SL-277-SA5B-SB-2.5-3.5 Soil	6196809
SL-278-SA5B-SB-2.0-3.0 Soil	6196810
SL-279-SA5B-SB-2.5-3.5 Soil	6196811
TB-020111 Water	6196812

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Christine Dulaney
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-187-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196803
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE072-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5	0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.99
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3	0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.99
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5	0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3	0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.99
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3	0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.99
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.3	0.99
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3	0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.99
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.3	0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3	0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.99
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3	0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.99
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5	0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3	0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3	0.99
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5	0.99
06192	Methylene Chloride	75-09-2	0.46	J	0.26	4.3	0.99
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3	0.99

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196803
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE072-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3	0.99
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3	0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.3	0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3	0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3	0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.99
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3	0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3	0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.99

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	22.73
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196803
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE072-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196803
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E7401 SDG#: DE072-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		5.22	20.8	1
07914	Boron	7440-42-8	0.924	U	0.924	5.19	1
01650	Calcium	7440-70-2	2,280		6.37	20.8	1
01654	Iron	7439-89-6	22,300		4.89	20.8	1
01656	Lithium	7439-93-2	25.3		0.23	2.1	1
01657	Magnesium	7439-95-4	5,290		2.64	10.4	1
06958	Manganese	7439-96-5	214		0.0810	0.519	1
10145	Phosphorus	7723-14-0	291		0.581	10.4	1
01662	Potassium	7440-09-7	2,130		18.7	51.9	1
01667	Sodium	7440-23-5	1,190		38.7	104	1
07968	Strontium	7440-24-6	29.6		0.0644	0.519	1
06969	Tin	7440-31-5	2.40	J	1.04	10.4	1
06970	Titanium	7440-32-6	1,410		0.395	1.04	1
10146	Zirconium	7440-67-7	1.68	J	0.872	5.19	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0774	J	0.0623	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.10		0.0831	0.415	2
06126	Barium	7440-39-3	113		0.112	0.415	2
06127	Beryllium	7440-41-7	0.632		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.0415	U	0.0415	0.104	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196803
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE072-01

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium		7440-47-3	16.1	0.126	0.419	2
06132	Cobalt		7440-48-4	5.19	0.0208	0.104	2
06133	Copper		7440-50-8	6.64	0.0685	0.415	2
06135	Lead		7439-92-1	4.26	0.0108	0.208	2
06138	Molybdenum		7439-98-7	0.357	0.0519	0.104	2
06139	Nickel		7440-02-0	10.6	0.104	0.415	2
06141	Selenium		7782-49-2	0.111 J	0.0415	0.415	2
06142	Silver		7440-22-4	0.0125 U	0.0125	0.104	2
06145	Thallium		7440-28-0	0.219	0.0312	0.104	2
06148	Vanadium		7440-62-2	36.1	0.0228	0.104	2
06149	Zinc		7440-66-6	48.8	0.581	3.12	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0029 U	0.0029	0.103	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	11.5	0.86	1.1	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	15.6 J	9.6	32.1	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.21 U	0.21	1.1	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	327	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.94	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-187-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196803
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE072-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 04:08	Laura M Krieger	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 19:40	Jason M Long	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:34	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 14:33	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 01:09	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 14:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 01:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 01:43	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/12/2011 00:01	David K Beck	2
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 08:56	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:01	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:01	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-187-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196803
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE072-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:01	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 07:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/17/2011 21:13	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/15/2011 01:17	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-188-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196804
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE072-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5	0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3	0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5	0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3	0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3	0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3	0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3	0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3	0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3	0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5	0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3	0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3	0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5	0.95
06192	Methylene Chloride	75-09-2	0.69	J	0.26	4.3	0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3	0.95

*=This limit was used in the evaluation of the final result

Sample Description: SL-188-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196804
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE072-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3	0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3	0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3	0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3	0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3	0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3	0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3	0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.95

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17	25.56
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-188-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196804
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE072-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.6	J	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-188-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196804
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE072-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.81	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,200		5.46	21.7	1
07914	Boron	7440-42-8	1.23	J	0.967	5.43	1
01650	Calcium	7440-70-2	9,860		6.66	21.7	1
01654	Iron	7439-89-6	24,200		5.12	21.7	1
01656	Lithium	7439-93-2	44.2		0.24	2.2	1
01657	Magnesium	7439-95-4	5,460		2.76	10.9	1
06958	Manganese	7439-96-5	189		0.0847	0.543	1
10145	Phosphorus	7723-14-0	293		0.608	10.9	1
01662	Potassium	7440-09-7	1,420		19.5	54.3	1
01667	Sodium	7440-23-5	511		40.5	109	1
07968	Strontium	7440-24-6	38.0		0.0673	0.543	1
06969	Tin	7440-31-5	2.53	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,370		0.413	1.09	1
10146	Zirconium	7440-67-7	2.13	J	0.912	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.50		0.0869	0.434	2
06126	Barium	7440-39-3	88.2		0.117	0.434	2
06127	Beryllium	7440-41-7	0.609		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0434	U	0.0434	0.109	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-188-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196804
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE072-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium		7440-47-3	30.1	0.133	0.443	2
06132	Cobalt		7440-48-4	5.37	0.0217	0.109	2
06133	Copper		7440-50-8	9.37	0.0717	0.434	2
06135	Lead		7439-92-1	5.17	0.0113	0.217	2
06138	Molybdenum		7439-98-7	0.367	0.0543	0.109	2
06139	Nickel		7440-02-0	19.1	0.109	0.434	2
06141	Selenium		7782-49-2	0.0447 J	0.0434	0.434	2
06142	Silver		7440-22-4	0.0798 J	0.0130	0.109	2
06145	Thallium		7440-28-0	0.243	0.0326	0.109	2
06148	Vanadium		7440-62-2	41.7	0.0239	0.109	2
06149	Zinc		7440-66-6	53.9	0.608	3.26	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0030 U	0.0030	0.106	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	4.7	0.89	1.1	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1 U	10.1	33.6	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22 U	0.22	1.1	1
		ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	396	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.05	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	10.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-188-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-188-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196804
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE072-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 04:31	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 19:59	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:32	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 14:29	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 01:35	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 14:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 02:24	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 02:06	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/12/2011 00:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 09:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:20	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:20	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-188-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196804
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE072-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 08:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/17/2011 22:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/15/2011 01:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196805
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE072-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.7	0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.88
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7	0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.88
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9	0.88
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.9	0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.88
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.9	0.88
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.9	0.88
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8	0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.88
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9	0.88
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9	0.88
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.88
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9	0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.88
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9	0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.88
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9	0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.88
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9	0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9	0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9	0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.88
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8	0.88
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.9	0.88
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7	0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9	0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7	0.88
06192	Methylene Chloride	75-09-2	0.43	J	0.23	3.9	0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.88

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196805
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE072-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.88
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9	0.88
06192	Toluene	108-88-3	0.08	U	0.08	3.9	0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.9	0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9	0.88
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9	0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.88
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9	0.88
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.88
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9	0.88
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9	0.88
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9	0.88

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	23.41
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196805
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE072-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Dimethylphthalate	131-11-3	35	J	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.47	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196805
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE072-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.74	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.45	21.7	1
07914	Boron	7440-42-8	1.05	J	0.964	5.42	1
01650	Calcium	7440-70-2	12,400		6.64	21.7	1
01654	Iron	7439-89-6	22,000		5.10	21.7	1
01656	Lithium	7439-93-2	38.7		0.24	2.2	1
01657	Magnesium	7439-95-4	5,300		2.75	10.8	1
06958	Manganese	7439-96-5	228		0.0845	0.542	1
10145	Phosphorus	7723-14-0	264		0.607	10.8	1
01662	Potassium	7440-09-7	1,740		19.5	54.2	1
01667	Sodium	7440-23-5	526		40.4	108	1
07968	Strontium	7440-24-6	45.2		0.0672	0.542	1
06969	Tin	7440-31-5	2.59	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,370		0.412	1.08	1
10146	Zirconium	7440-67-7	1.68	J	0.910	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0644	U	0.0644	0.215	2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196805
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE072-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.14	0.0858	0.429	2
06126	Barium	7440-39-3	224	0.290	1.07	5
06127	Beryllium	7440-41-7	0.539	0.0172	0.107	2
06128	Cadmium	7440-43-9	0.0429 U	0.0429	0.107	2
06131	Chromium	7440-47-3	14.6	0.129	0.429	2
06132	Cobalt	7440-48-4	5.08	0.0215	0.107	2
06133	Copper	7440-50-8	5.56	0.0708	0.429	2
06135	Lead	7439-92-1	3.97	0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.277	0.0536	0.107	2
06139	Nickel	7440-02-0	11.1	0.107	0.429	2
06141	Selenium	7782-49-2	0.0518 J	0.0429	0.429	2
06142	Silver	7440-22-4	0.0411 J	0.0129	0.107	2
06145	Thallium	7440-28-0	0.225	0.0322	0.107	2
06148	Vanadium	7440-62-2	30.6	0.0236	0.107	2
06149	Zinc	7440-66-6	57.0	0.601	3.22	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	20.8	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	423	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.67	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

Sample Description: **SL-189-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196805
LLI Group # 1231378
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE072-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-189-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 04:53	Laura M Krieger	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 20:19	Jason M Long	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:03	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:39	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:39	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 13:59	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 02:00	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 15:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110390023A	02/09/2011 17:51	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 02:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110390023A	02/09/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 02:17	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/15/2011 08:19	David K Beck	5

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196805
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE072-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 09:08	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:23	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:23	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 09:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/17/2011 22:53	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/15/2011 01:42	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-190-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196806
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE072-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	5.8	U	5.8	6.9	0.77
06192	Benzene	71-43-2	0.09	U	0.09	3.5	0.77
06192	Bromobenzene	108-86-1	0.11	U	0.11	3.5	0.77
06192	Bromochloromethane	74-97-5	0.29	U	0.29	3.5	0.77
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.5	0.77
06192	Bromoform	75-25-2	0.35	U	0.35	3.5	0.77
06192	Bromomethane	74-83-9	0.22	U	0.22	3.5	0.77
06192	2-Butanone	78-93-3	1.1	U	1.1	6.9	0.77
06192	n-Butylbenzene	104-51-8	0.10	U	0.10	3.5	0.77
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.5	0.77
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.5	0.77
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.5	0.77
06192	Chlorobenzene	108-90-7	0.09	U	0.09	3.5	0.77
06192	Chloroethane	75-00-3	0.11	U	0.11	3.5	0.77
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.26	U	0.26	3.5	0.77
06192	Chloroform	67-66-3	0.10	U	0.10	3.5	0.77
06192	Chloromethane	74-87-3	0.29	U	0.29	3.5	0.77
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.5	0.77
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.5	0.77
06192	Chlorotrifluoroethene	79-38-9	0.43	U	0.43	4.3	0.77
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.61	U	0.61	3.5	0.77
06192	Dibromochloromethane	124-48-1	0.17	U	0.17	3.5	0.77
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.5	0.77
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.5	0.77
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.5	0.77
06192	1,3-Dichlorobenzene	541-73-1	0.10	U	0.10	3.5	0.77
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.5	0.77
06192	Dichlorodifluoromethane	75-71-8	0.10	U	0.10	3.5	0.77
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.5	0.77
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.5	0.77
06192	1,1-Dichloroethene	75-35-4	0.34	U	0.34	3.5	0.77
06192	cis-1,2-Dichloroethene	156-59-2	0.16	U	0.16	3.5	0.77
06192	trans-1,2-Dichloroethene	156-60-5	0.10	U	0.10	3.5	0.77
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.5	0.77
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.5	0.77
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.5	0.77
06192	1,1-Dichloropropene	563-58-6	0.11	U	0.11	3.5	0.77
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.5	0.77
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.5	0.77
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.5	0.77
06192	Freon 113	76-13-1	0.09	U	0.09	3.5	0.77
06192	Freon 133a	75-88-7	0.43	U	0.43	4.3	0.77
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.5	0.77
06192	2-Hexanone	591-78-6	1.4	U	1.4	6.9	0.77
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.5	0.77
06192	p-Isopropyltoluene	99-87-6	0.09	U	0.09	3.5	0.77
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.18	U	0.18	3.5	0.77
06192	4-Methyl-2-pentanone	108-10-1	0.34	U	0.34	6.9	0.77
06192	Methylene Chloride	75-09-2	0.44	J	0.21	3.5	0.77
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.5	0.77

*=This limit was used in the evaluation of the final result

Sample Description: SL-190-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196806
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE072-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.5	0.77
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.09	U	0.09	3.5	0.77
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.20	U	0.20	3.5	0.77
06192	Tetrachloroethene	127-18-4	0.17	U	0.17	3.5	0.77
06192	Toluene	108-88-3	0.07	J	0.07	3.5	0.77
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.5	0.77
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.5	0.77
06192	1,1,1-Trichloroethane	71-55-6	0.17	U	0.17	3.5	0.77
06192	1,1,2-Trichloroethane	79-00-5	0.23	U	0.23	3.5	0.77
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.5	0.77
06192	Trichlorofluoromethane	75-69-4	0.25	U	0.25	3.5	0.77
06192	1,2,3-Trichloropropane	96-18-4	0.29	U	0.29	3.5	0.77
06192	1,2,4-Trimethylbenzene	95-63-6	0.35	U	0.35	3.5	0.77
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.5	0.77
06192	Vinyl Chloride	75-01-4	0.17	U	0.17	3.5	0.77
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.5	0.77
06192	o-Xylene	95-47-6	0.15	U	0.15	3.5	0.77
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14	20.76
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-190-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196806
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE072-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.65	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-190-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196806
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE072-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,800		5.46	21.7	1
07914	Boron	7440-42-8	1.73	J	0.966	5.43	1
01650	Calcium	7440-70-2	2,850		6.65	21.7	1
01654	Iron	7439-89-6	25,500		5.11	21.7	1
01656	Lithium	7439-93-2	32.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,470		2.76	10.9	1
06958	Manganese	7439-96-5	176		0.0847	0.543	1
10145	Phosphorus	7723-14-0	72.0		0.608	10.9	1
01662	Potassium	7440-09-7	1,380		19.5	54.3	1
01667	Sodium	7440-23-5	651		40.5	109	1
07968	Strontium	7440-24-6	33.5		0.0673	0.543	1
06969	Tin	7440-31-5	2.84	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,310		0.412	1.09	1
10146	Zirconium	7440-67-7	2.39	J	0.912	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0664	U	0.0664	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.06		0.0885	0.443	2
06126	Barium	7440-39-3	103		0.120	0.443	2
06127	Beryllium	7440-41-7	0.766		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.0443	U	0.0443	0.111	2
06131	Chromium	7440-47-3	22.3		0.130	0.434	2
06132	Cobalt	7440-48-4	4.56		0.0221	0.111	2
06133	Copper	7440-50-8	6.25		0.0730	0.443	2
06135	Lead	7439-92-1	5.76		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.400		0.0553	0.111	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-190-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196806
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE072-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	10.8	0.111	0.443	2
06141	Selenium	7782-49-2	0.0475 J	0.0443	0.443	2
06142	Silver	7440-22-4	0.103 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.203	0.0332	0.111	2
06148	Vanadium	7440-62-2	39.5	0.0243	0.111	2
06149	Zinc	7440-66-6	40.0	0.620	3.32	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.9	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	13.4 J	10.2	33.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	420	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.37	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-190-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-190-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196806
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE072-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 16:50	Chelsea B Eastep	0.77
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 20:38	Jason M Long	20.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 14:25	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 02:25	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 15:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 03:01	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 02:21	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/12/2011 00:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 09:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:32	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:32	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-190-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196806
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE072-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 09:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/17/2011 23:43	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/15/2011 01:54	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-191-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196807
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE072-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1	0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1	0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1	0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1	0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1	0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1	0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1	0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1	0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1	0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1	0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1	0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1	0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1	0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1	0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1	0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1	0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1	0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1	0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1	0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1	0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1	0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1	0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1	0.93
06192	Methylene Chloride	75-09-2	0.48	J	0.24	4.1	0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.93

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196807
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE072-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1	0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1	0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1	0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1	0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1	0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1	0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1	0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1	0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1	0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1	0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1	0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1	0.93

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14	22.2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-191-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196807
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE072-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.42	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	J	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.91	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.4	J	6.5	20	1
10138	Fluoranthene	206-44-0	0.76	J	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196807
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE072-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.79	J	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20	1
10138	Phenanthrene	85-01-8	0.87	J	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		5.41	21.5	1
07914	Boron	7440-42-8	0.958	U	0.958	5.38	1
01650	Calcium	7440-70-2	3,110		6.60	21.5	1
01654	Iron	7439-89-6	28,600		5.07	21.5	1
01656	Lithium	7439-93-2	32.8		0.24	2.2	1
01657	Magnesium	7439-95-4	6,280		2.73	10.8	1
06958	Manganese	7439-96-5	269		0.0839	0.538	1
10145	Phosphorus	7723-14-0	257		0.603	10.8	1
01662	Potassium	7440-09-7	1,470		19.4	53.8	1
01667	Sodium	7440-23-5	700		40.1	108	1
07968	Strontium	7440-24-6	31.8		0.0667	0.538	1
06969	Tin	7440-31-5	2.66	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,490		0.409	1.08	1
10146	Zirconium	7440-67-7	1.60	J	0.904	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0633	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.04		0.0844	0.422	2
06126	Barium	7440-39-3	127		0.114	0.422	2
06127	Beryllium	7440-41-7	0.661		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0422	U	0.0422	0.106	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196807
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE072-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	19.8	0.128	0.426	2
06132	Cobalt	7440-48-4	5.34	0.0211	0.106	2
06133	Copper	7440-50-8	7.52	0.0696	0.422	2
06135	Lead	7439-92-1	5.67	0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.315	0.0528	0.106	2
06139	Nickel	7440-02-0	13.6	0.106	0.422	2
06141	Selenium	7782-49-2	0.0924 J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0195 J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.199	0.0317	0.106	2
06148	Vanadium	7440-62-2	44.9	0.0232	0.106	2
06149	Zinc	7440-66-6	53.2	0.591	3.17	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9	0.87	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	447	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-191-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196807
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE072-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 05:38	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 20:58	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:23	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 14:21	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 02:51	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 19:37	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 03:20	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 02:25	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/12/2011 00:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 09:15	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:35	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:35	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196807
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE072-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 10:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/18/2011 00:08	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/15/2011 02:13	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-276-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196808
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE072-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6	0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.99
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3	0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.99
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6	0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3	0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.99
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3	0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.99
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3	0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3	0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.99
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3	0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.99
06192	Ethylbenzene	100-41-4	0.46	J	0.06	4.3	0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.99
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6	0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3	0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3	0.99
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6	0.99
06192	Methylene Chloride	75-09-2	0.44	J	0.26	4.3	0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3	0.99

*=This limit was used in the evaluation of the final result

Sample Description: SL-276-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196808
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE072-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3	0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3	0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.3	0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3	0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3	0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3	0.99
06192	m+p-Xylene	179601-23-1	1.7	J	0.18	4.3	0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.99

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	25
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-276-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196808
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE072-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-276-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196808
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE072-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,500		5.44	21.6	1
07914	Boron	7440-42-8	0.962	U	0.962	5.40	1
01650	Calcium	7440-70-2	2,140		6.63	21.6	1
01654	Iron	7439-89-6	25,300		5.09	21.6	1
01656	Lithium	7439-93-2	30.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,470		2.75	10.8	1
06958	Manganese	7439-96-5	340		0.0843	0.540	1
10145	Phosphorus	7723-14-0	254		0.605	10.8	1
01662	Potassium	7440-09-7	2,180		19.5	54.0	1
01667	Sodium	7440-23-5	93.9	J	40.3	108	1
07968	Strontium	7440-24-6	16.7		0.0670	0.540	1
06969	Tin	7440-31-5	2.56	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,210		0.411	1.08	1
10146	Zirconium	7440-67-7	1.63	J	0.908	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0786	J	0.0649	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.62		0.0865	0.432	2
06126	Barium	7440-39-3	74.8		0.117	0.432	2
06127	Beryllium	7440-41-7	0.622		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0680	J	0.0432	0.108	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-276-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196808
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE072-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	15.1	0.126	0.420	2
06132	Cobalt	7440-48-4	5.24	0.0216	0.108	2
06133	Copper	7440-50-8	5.35	0.0713	0.432	2
06135	Lead	7439-92-1	5.37	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.407	0.0540	0.108	2
06139	Nickel	7440-02-0	9.89	0.108	0.432	2
06141	Selenium	7782-49-2	0.104 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0177 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.262	0.0324	0.108	2
06148	Vanadium	7440-62-2	36.0	0.0238	0.108	2
06149	Zinc	7440-66-6	47.0	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.87	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	574	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.01	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-276-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-276-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196808
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE072-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 06:01	Laura M Krieger	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 21:18	Jason M Long	25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:19	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 14:17	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 03:16	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 20:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 03:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 02:29	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/12/2011 00:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 09:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:39	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:39	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-276-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196808
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE072-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 10:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/18/2011 00:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/15/2011 02:32	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-277-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196809
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7407 SDG#: DE072-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9	0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9	0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9	0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9	0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9	0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9	0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9	0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9	0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9	0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9	0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9	0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9	0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9	0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9	0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9	0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9	0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9	0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9	0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9	0.88
06192	Methylene Chloride	75-09-2	0.42	J	0.24	3.9	0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.88

*=This limit was used in the evaluation of the final result

Sample Description: SL-277-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196809
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7407 SDG#: DE072-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9	0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9	0.88
06192	Toluene	108-88-3	0.08	U	0.08	3.9	0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9	0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9	0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9	0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9	0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9	0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9	0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9	0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9	0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14	20.26
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196809
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7407 SDG#: DE072-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196809
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7407 SDG#: DE072-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.43	21.6	1
07914	Boron	7440-42-8	1.36	J	0.960	5.40	1
01650	Calcium	7440-70-2	2,270		6.62	21.6	1
01654	Iron	7439-89-6	22,500		5.08	21.6	1
01656	Lithium	7439-93-2	26.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,040		2.74	10.8	1
06958	Manganese	7439-96-5	224		0.0842	0.540	1
10145	Phosphorus	7723-14-0	193		0.604	10.8	1
01662	Potassium	7440-09-7	2,150		19.4	54.0	1
01667	Sodium	7440-23-5	95.0	J	40.3	108	1
07968	Strontium	7440-24-6	20.1		0.0669	0.540	1
06969	Tin	7440-31-5	2.65	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,260		0.410	1.08	1
10146	Zirconium	7440-67-7	2.24	J	0.907	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0680	J	0.0660	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.11		0.0880	0.440	2
06126	Barium	7440-39-3	82.6		0.119	0.440	2
06127	Beryllium	7440-41-7	0.687		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.0507	J	0.0440	0.110	2
06131	Chromium	7440-47-3	18.1		0.130	0.432	2
06132	Cobalt	7440-48-4	4.51		0.0220	0.110	2
06133	Copper	7440-50-8	7.23		0.0726	0.440	2
06135	Lead	7439-92-1	5.50		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.444		0.0550	0.110	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196809
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7407 SDG#: DE072-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	9.93	0.110	0.440	2
06141	Selenium	7782-49-2	0.0607 J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0391 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.236	0.0330	0.110	2
06148	Vanadium	7440-62-2	33.0	0.0242	0.110	2
06149	Zinc	7440-66-6	48.5	0.616	3.30	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0 J	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	554	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.79	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-277-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196809
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7407 SDG#: DE072-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 17:12	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 21:38	Jason M Long	20.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:39	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:40	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 14:12	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 03:41	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 20:42	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 03:57	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 02:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/12/2011 00:42	David K Beck	2
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 09:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:42	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:42	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196809
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7407 SDG#: DE072-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:42	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 11:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/18/2011 00:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/11/2011 18:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-278-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196810
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE072-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9	1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1.02
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9	1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5	1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.5	1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1.02
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5	1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5	1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5	1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5	1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1.02
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5	1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1.02
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9	1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5	1.02
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	8.9	1.02
06192	Methylene Chloride	75-09-2	0.63	J	0.27	4.5	1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1.02

*=This limit was used in the evaluation of the final result

Sample Description: SL-278-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196810
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE072-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5	1.02
06192	Toluene	108-88-3	0.09	U	0.09	4.5	1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5	1.02
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5	1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	1.02
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5	1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5	1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1.02

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	24.85
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-278-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196810
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE072-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-278-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196810
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE072-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.94	J	0.73	1.8	1
10138	Naphthalene	91-20-3	3.4		0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.79	J	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,000		5.42	21.5	1
07914	Boron	7440-42-8	0.959	U	0.959	5.39	1
01650	Calcium	7440-70-2	1,660		6.60	21.5	1
01654	Iron	7439-89-6	26,400		5.07	21.5	1
01656	Lithium	7439-93-2	21.4		0.24	2.2	1
01657	Magnesium	7439-95-4	4,050		2.74	10.8	1
06958	Manganese	7439-96-5	228		0.0840	0.539	1
10145	Phosphorus	7723-14-0	193		0.603	10.8	1
01662	Potassium	7440-09-7	2,440		19.4	53.9	1
01667	Sodium	7440-23-5	103	J	40.2	108	1
07968	Strontium	7440-24-6	15.6		0.0668	0.539	1
06969	Tin	7440-31-5	3.01	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,240		0.409	1.08	1
10146	Zirconium	7440-67-7	2.33	J	0.905	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0646	U	0.0646	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.18		0.0862	0.431	2
06126	Barium	7440-39-3	70.9		0.116	0.431	2
06127	Beryllium	7440-41-7	0.582		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.0431	U	0.0431	0.108	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-278-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196810
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE072-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	15.4	0.131	0.435	2
06132	Cobalt	7440-48-4	3.90	0.0215	0.108	2
06133	Copper	7440-50-8	5.71	0.0711	0.431	2
06135	Lead	7439-92-1	5.22	0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.457	0.0539	0.108	2
06139	Nickel	7440-02-0	8.15	0.108	0.431	2
06141	Selenium	7782-49-2	0.105 J	0.0431	0.431	2
06142	Silver	7440-22-4	0.0165 J	0.0129	0.108	2
06145	Thallium	7440-28-0	0.174	0.0323	0.108	2
06148	Vanadium	7440-62-2	31.2	0.0237	0.108	2
06149	Zinc	7440-66-6	39.3	0.603	3.23	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0360 J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	557	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.44	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-278-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-278-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196810
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE072-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 06:46	Laura M Krieger	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 21:58	Jason M Long	24.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:11	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:39	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:39	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 14:08	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 04:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 21:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 04:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 02:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/12/2011 00:45	David K Beck	2
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 09:21	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:45	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:45	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-278-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196810
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE072-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:45	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 11:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/18/2011 01:23	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11041243201A	02/11/2011 18:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-279-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196811
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE072-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0	0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.0	0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0	0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0	0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0	0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0	0.91
06192	Methylene Chloride	75-09-2	0.52	J	0.24	4.0	0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.91

*=This limit was used in the evaluation of the final result

Sample Description: SL-279-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196811
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE072-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.91
06192	Toluene	108-88-3	0.08	J	0.08	4.0	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0	0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15	23.45
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-279-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196811
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE072-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-279-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196811
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE072-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.43	21.6	1
07914	Boron	7440-42-8	0.961	U	0.961	5.40	1
01650	Calcium	7440-70-2	2,670		6.62	21.6	1
01654	Iron	7439-89-6	21,500		5.09	21.6	1
01656	Lithium	7439-93-2	23.2		0.24	2.2	1
01657	Magnesium	7439-95-4	4,560		2.74	10.8	1
06958	Manganese	7439-96-5	326		0.0842	0.540	1
10145	Phosphorus	7723-14-0	266		0.605	10.8	1
01662	Potassium	7440-09-7	2,030		19.4	54.0	1
01667	Sodium	7440-23-5	129		40.3	108	1
07968	Strontium	7440-24-6	19.4		0.0669	0.540	1
06969	Tin	7440-31-5	2.75	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,300		0.410	1.08	1
10146	Zirconium	7440-67-7	1.59	J	0.907	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.28		0.0855	0.428	2
06126	Barium	7440-39-3	78.1		0.115	0.428	2
06127	Beryllium	7440-41-7	0.559		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.0428	U	0.0428	0.107	2
06131	Chromium	7440-47-3	16.6		0.127	0.424	2
06132	Cobalt	7440-48-4	5.61		0.0214	0.107	2
06133	Copper	7440-50-8	5.41		0.0706	0.428	2
06135	Lead	7439-92-1	4.71		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.301		0.0535	0.107	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-279-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196811
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE072-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	8.62	0.107	0.428	2
06141	Selenium	7782-49-2	0.0626 J	0.0428	0.428	2
06142	Silver	7440-22-4	0.0176 J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.231	0.0321	0.107	2
06148	Vanadium	7440-62-2	30.5	0.0235	0.107	2
06149	Zinc	7440-66-6	52.0	0.599	3.21	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25 J	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	538	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.50	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-279-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-279-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196811
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE072-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 17:34	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 22:18	Jason M Long	23.45
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:07	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103323621	02/02/2011 14:39	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103323621	02/02/2011 14:39	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103323621	02/02/2011 14:04	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 04:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 21:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350006A	02/09/2011 04:34	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350006A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110335708002	02/09/2011 02:41	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06126	Barium	SW-846 6020	1	110331026002D	02/12/2011 00:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06131	Chromium	SW-846 6020	1	110471026002A	02/17/2011 09:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06133	Copper	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06135	Lead	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110331026002C	02/12/2011 00:48	David K Beck	2
06139	Nickel	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06141	Selenium	SW-846 6020	1	110331026002B	02/12/2011 00:48	David K Beck	2
06142	Silver	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06145	Thallium	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-279-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196811
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE072-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110331026002A	02/12/2011 00:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	110335711002	02/03/2011 18:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110335708002	02/02/2011 19:41	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110331026002	02/02/2011 19:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110471026002	02/16/2011 20:17	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110335711002	02/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203A	02/12/2011 11:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201A	02/18/2011 01:48	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/11/2011 18:34	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203A	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201A	02/11/2011 14:05	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11035182101A	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-020111 Water
SSFL Area IV Collocated Soil Sampling
TB-020111

LLI Sample # WW 6196812
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7410 SDG#: DE072-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **TB-020111 Water**
SSFL Area IV Collocated Soil Sampling
TB-020111

LLI Sample # WW 6196812
LLI Group # 1231378
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011

Submitted: 02/02/2011 11:00
Reported: 02/21/2011 14:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7410 SDG#: DE072-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110341AA	02/03/2011 14:18	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110341AA	02/03/2011 13:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110341AA	02/03/2011 13:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110341AA	02/03/2011 14:18	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110341AA	Sample number(s): 6196803-6196805,6196807-6196808,6196810									
Acetone	6.7	U	6.7	8.0	ug/kg	119		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	97		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	82		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	100		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	101		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	82		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	99		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	90		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	83		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	78		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	107		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	77		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	77		43-146		
Chloroform	0.12	J	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	70		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	85		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	84		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	106		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	92		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	87		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	89		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	58		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	95		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	106		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	94		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	79*		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	92		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	86		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	68		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	88		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69		61-134		
Methylene Chloride	0.82	J	0.24	4.0	ug/kg	100		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	91		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	107		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	91		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.13	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	76		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	66*		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	93		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	94		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	86		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	86		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	76		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	83		80-120		
Batch number: B110351AA	Sample number(s): 6196806,6196809,6196811									
Acetone	7.5	J	6.7	8.0	ug/kg	200		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	104		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	84		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	99		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	93		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	86		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	141		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	99		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	89		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	83		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	82		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	80		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	86		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	92		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	75		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	99		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	97		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102		80-120		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	83		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	97		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	83		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	80		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	94		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	90		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	92		75-120		
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	70		61-134		
Methylene Chloride	0.79	J	0.24	4.0	ug/kg	105		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	99		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	98		77-120		
Toluene	0.53	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	77		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	68		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	105		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	96		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	94		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	88		80-120		
Batch number: E110341AA	Sample number(s): 6196812									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	108	110	60-132	2	30
Batch number: E110352AA	Sample number(s): 6196803-6196811									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	103	107	70-130	4	30
Batch number: Y110341AA	Sample number(s): 6196812									
Acetone	6	U	6.	20	ug/l	111	116	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	98	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	107	103	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	104	102	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Bromoform	1	U	1.	5	ug/l	101	101	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	116	113	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	97	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	104	102	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	95	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	116	114	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	98	100	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	102	101	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	122	118	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	102	80-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorotoluene	1	U	1.	5	ug/l	103	103	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	89	90	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	105	106	66-120	0	30
Dibromochloromethane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	102	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	102	100	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	98	98	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	101	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	99	93	47-120	6	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	97	79-120	3	30
1,2-Dichloroethane	1	U	1.	5	ug/l	106	103	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	104	101	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	98	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	94	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	97	95	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	95	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	100	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	98	79-120	0	30
Freon 113	2	U	2.	10	ug/l	104	99	69-128	5	30
Freon 133a	2	U	2.	5	ug/l	92	90	77-120	3	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	90	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	97	99	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	98	98	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	104	101	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	101	100	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	96	98	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	111	110	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	104	102	80-120	1	30
Styrene	1	U	1.	5	ug/l	101	100	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	103	105	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	96	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	104	104	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	101	101	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	88	85	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	102	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	97	95	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	108	104	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	110	109	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	104	104	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	104	104	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	102	99	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
Batch number: 11035SLB026	Sample number(s): 6196803-6196811									
Aniline	170 U		170.	500	ug/kg	66		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121		
Benzoic acid	170 U		170.	500	ug/kg	87		62-113		
Benzyl alcohol	170		170.	500	ug/kg	96		68-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	37		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	92		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	70		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	93		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	67		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	90		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Isophorone	17	U	17.	170	ug/kg	87		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	93		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	67		51-117		
Phenol	17	U	17.	170	ug/kg	96		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	92		78-111		
Batch number: 11035SLC026	Sample number(s): 6196803-6196811									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	90		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	87		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	88		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	91		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	96		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	90		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	87		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	91		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	115		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	86		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	86		56-121		
Batch number: 110390023A	Sample number(s): 6196805									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110350006A	Sample number(s): 6196803-6196811									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	72	63	36-106	13	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	77		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	93		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110331026002A	Sample number(s): 6196803-6196811									
Antimony	0.0600	U	0.0600	0.200	mg/kg	104		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	104		82-118		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	109		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	113		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	112		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	111		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	104		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	105		78-122		
Batch number: 110331026002B	Sample number(s): 6196803-6196811									
Selenium	0.0400	U	0.0400	0.400	mg/kg	107		79-122		
Batch number: 110331026002C	Sample number(s): 6196803-6196811									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110331026002D	Sample number(s): 6196803-6196811									
Barium	0.108	U	0.108	0.400	mg/kg	106		79-121		
Batch number: 110335708002	Sample number(s): 6196803-6196811									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	97		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	104		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	94		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	0.991	J	0.560	10.0	mg/kg	102		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	93		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		79-121		
Tin	1.29	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	107		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	99		80-120		
Batch number: 110335711002	Sample number(s): 6196803-6196811									
Mercury	0.0027	U	0.0027	0.0929	mg/kg	93		88-123		
Batch number: 110471026002A	Sample number(s): 6196803-6196811									
Chromium	0.120	U	0.120	0.400	mg/kg	112		80-120		
Batch number: 11040040203A	Sample number(s): 6196803-6196811									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11041243201A	Sample number(s): 6196803-6196811									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11042042201A	Sample number(s): 6196803-6196811									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11035039402A	Sample number(s): 6196803-6196811									
22a pH by 9045C						101		95-105		
Batch number: 11035182101A	Sample number(s): 6196803-6196811									
32a OR Potential						99		98-102		
Batch number: 11040162401A	Sample number(s): 6196803-6196811									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110341AA	Sample number(s): 6196803-6196805,6196807-6196808,6196810 UNSPK: P197571								
Acetone	106	105	15-210	6	30				
Benzene	98	98	55-143	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromobenzene	76	81	43-139	14	30				
Bromochloromethane	102	101	60-137	6	30				
Bromodichloromethane	95	94	53-136	5	30				
Bromoform	94	95	38-124	7	30				
Bromomethane	88	81	42-168	2	30				
2-Butanone	83	87	37-163	11	30				
n-Butylbenzene	66	77	30-146	23	30				
sec-Butylbenzene	64	75	33-157	22	30				
tert-Butylbenzene	63	73	41-152	21	30				
Carbon Tetrachloride	109	109	45-153	7	30				
Chlorobenzene	93	95	49-135	9	30				
Chloroethane	83	78	39-152	1	30				
2-Chloroethyl Vinyl Ether	70	71	32-139	7	30				
Chloroform	104	102	61-142	5	30				
Chloromethane	84	75	51-163	4	30				
2-Chlorotoluene	75	81	42-146	15	30				
4-Chlorotoluene	75	82	39-145	16	30				
Chlorotrifluoroethene	76	82	70-130	1	30				
1,2-Dibromo-3-chloropropane	76	78	30-139	10	30				
Dibromochloromethane	104	101	51-128	5	30				
1,2-Dibromoethane	93	94	54-129	8	30				
Dibromomethane	95	96	57-130	8	30				
1,2-Dichlorobenzene	83	87	36-133	13	30				
1,3-Dichlorobenzene	75	82	34-134	16	30				
1,4-Dichlorobenzene	78	84	35-136	15	30				
Dichlorodifluoromethane	63	53	26-151	10	30				
1,1-Dichloroethane	104	104	63-142	7	30				
1,2-Dichloroethane	101	99	68-131	5	30				
1,1-Dichloroethene	116	115	61-149	6	30				
cis-1,2-Dichloroethene	96	97	60-136	7	30				
trans-1,2-Dichloroethene	107	101	59-142	1	30				
1,2-Dichloropropane	97	98	62-135	8	30				
1,3-Dichloropropane	94	96	58-129	9	30				
2,2-Dichloropropane	109	109	53-147	7	30				
1,1-Dichloropropene	93	94	54-145	8	30				
cis-1,3-Dichloropropene	76	78	51-131	10	30				
trans-1,3-Dichloropropene	81	86	49-129	12	30				
Ethylbenzene	81	85	44-141	11	30				
Freon 113	121	120	56-156	6	30				
Freon 133a	84	96	70-130	5	30				
Hexachlorobutadiene	59	70	10-155	23	30				
2-Hexanone	56	59	32-160	13	30				
Isopropylbenzene	71	77	38-144	15	30				
p-Isopropyltoluene	65	77	29-152	22	30				
Methyl Tertiary Butyl Ether	93	90	55-129	4	30				
4-Methyl-2-pentanone	60	62	46-139	11	30				
Methylene Chloride	100	99	61-141	6	30				
n-Propylbenzene	74	84	39-157	19	30				
Styrene	83	87	35-134	12	30				
1,1,1,2-Tetrachloroethane	103	103	52-130	7	30				
1,1,2,2-Tetrachloroethane	84	87	40-152	10	30				
Tetrachloroethene	94	96	42-149	10	30				
Toluene	94	96	50-146	10	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichlorobenzene	64	68	10-140	13	30				
1,2,4-Trichlorobenzene	54	59	10-136	15	30				
1,1,1-Trichloroethane	106	106	64-142	6	30				
1,1,2-Trichloroethane	99	99	54-139	7	30				
Trichloroethene	91	93	53-144	9	30				
Trichlorofluoromethane	101	95	47-163	2	30				
1,2,3-Trichloropropane	85	90	45-154	13	30				
1,2,4-Trimethylbenzene	71	79	37-149	18	30				
1,3,5-Trimethylbenzene	71	80	38-150	19	30				
Vinyl Chloride	83	77	50-154	0	30				
m+p-Xylene	89	92	44-137	10	30				
o-Xylene	74	77	42-137	11	30				
Batch number: B110351AA	Sample number(s): 6196806,6196809,6196811 UNSPK: P197581								
Acetone	102	122	15-210	27	30				
Benzene	101	107	55-143	16	30				
Bromobenzene	80	85	43-139	17	30				
Bromochloromethane	97	96	60-137	10	30				
Bromodichloromethane	92	97	53-136	15	30				
Bromoform	84	91	38-124	18	30				
Bromomethane	88	95	42-168	18	30				
2-Butanone	83	98	37-163	27	30				
n-Butylbenzene	90	92	30-146	12	30				
sec-Butylbenzene	84	88	33-157	14	30				
tert-Butylbenzene	79	82	41-152	14	30				
Carbon Tetrachloride	100	104	45-153	14	30				
Chlorobenzene	98	101	49-135	12	30				
Chloroethane	89	93	39-152	15	30				
2-Chloroethyl Vinyl Ether	69	75	32-139	18	30				
Chloroform	100	108	61-142	17	30				
Chloromethane	87	103	51-163	26	30				
2-Chlorotoluene	86	91	42-146	15	30				
4-Chlorotoluene	87	90	39-145	14	30				
Chlorotrifluoroethene	67*	74	70-130	14	30				
1,2-Dibromo-3-chloropropane	72	84	30-139	26	30				
Dibromochloromethane	96	102	51-128	16	30				
1,2-Dibromoethane	90	99	54-129	20	30				
Dibromomethane	92	99	57-130	17	30				
1,2-Dichlorobenzene	87	93	36-133	17	30				
1,3-Dichlorobenzene	81	86	34-134	16	30				
1,4-Dichlorobenzene	83	88	35-136	16	30				
Dichlorodifluoromethane	77	80	26-151	14	30				
1,1-Dichloroethane	103	110	63-142	16	30				
1,2-Dichloroethane	94	102	68-131	18	30				
1,1-Dichloroethene	114	121	61-149	16	30				
cis-1,2-Dichloroethene	95	103	60-136	18	30				
trans-1,2-Dichloroethene	102	111	59-142	18	30				
1,2-Dichloropropane	100	106	62-135	16	30				
1,3-Dichloropropane	95	103	58-129	18	30				
2,2-Dichloropropane	101	110	53-147	18	30				
1,1-Dichloropropene	95	102	54-145	17	30				
cis-1,3-Dichloropropene	76	84	51-131	20	30				
trans-1,3-Dichloropropene	82	91	49-129	20	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	92	96	44-141	14	30				
Freon 113	114	124	56-156	18	30				
Freon 133a	77	87	70-130	16	30				
Hexachlorobutadiene	69	74	10-155	18	30				
2-Hexanone	53	64	32-160	27	30				
Isopropylbenzene	85	86	38-144	12	30				
p-Isopropyltoluene	85	88	29-152	13	30				
Methyl Tertiary Butyl Ether	83	94	55-129	23	30				
4-Methyl-2-pentanone	56	65	46-139	26	30				
Methylene Chloride	99	108	61-141	18	30				
n-Propylbenzene	94	97	39-157	13	30				
Styrene	93	96	35-134	13	30				
1,1,1,2-Tetrachloroethane	100	106	52-130	15	30				
1,1,2,2-Tetrachloroethane	86	98	40-152	22	30				
Tetrachloroethene	94	97	42-149	12	30				
Toluene	100	106	50-146	15	30				
1,2,3-Trichlorobenzene	63	72	10-140	24	30				
1,2,4-Trichlorobenzene	54	62	10-136	23	30				
1,1,1-Trichloroethane	99	106	64-142	17	30				
1,1,2-Trichloroethane	97	106	54-139	18	30				
Trichloroethene	91	97	53-144	17	30				
Trichlorofluoromethane	99	103	47-163	14	30				
1,2,3-Trichloropropane	80	93	45-154	24	30				
1,2,4-Trimethylbenzene	86	90	37-149	14	30				
1,3,5-Trimethylbenzene	86	89	38-150	14	30				
Vinyl Chloride	93	101	50-154	18	30				
m+p-Xylene	98	104	44-137	16	30				
o-Xylene	83	88	42-137	16	30				
Batch number: E110352AA	Sample number(s): 6196803-6196811 UNSPK: P197581								
1,4-Dioxane	80	88	70-130	12	30				
Batch number: 11035SLB026	Sample number(s): 6196803-6196811 UNSPK: P197571								
Aniline	60	67	35-95	12	30				
Benzidine	32*	33*	35-141	3	30				
Benzoic acid	73	79	10-173	7	30				
Benzyl alcohol	87	85	67-115	2	30				
4-Bromophenyl-phenylether	90	92	67-129	2	30				
Carbazole	91	91	64-120	1	30				
4-Chloro-3-methylphenol	86	89	76-110	4	30				
4-Chloroaniline	44	63	23-95	35*	30				
bis(2-Chloroethoxy)methane	81	82	75-104	0	30				
bis(2-Chloroethyl)ether	77	74	60-116	5	30				
bis(2-Chloroisopropyl)ether	75	73	55-142	3	30				
2-Chloronaphthalene	70	69	50-141	1	30				
2-Chlorophenol	84	82	73-121	3	30				
4-Chlorophenyl-phenylether	87	89	80-109	2	30				
Dibenzofuran	87	88	71-112	1	30				
1,2-Dichlorobenzene	70	67	66-108	5	30				
1,3-Dichlorobenzene	63	63	63-109	1	30				
1,4-Dichlorobenzene	66*	65*	70-100	2	30				
3,3'-Dichlorobenzidine	55	72	16-119	27	30				
2,4-Dichlorophenol	88	88	78-117	0	30				

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Quality Control Summary

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Reported: 02/21/11 at 02:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dimethylphenol	86	86	78-110	0	30				
3,5-Dimethylphenol	94	91	70-130	3	30				
Dimethylphthalate	87	90	64-118	4	30				
4,6-Dinitro-2-methylphenol	74	79	24-116	7	30				
2,4-Dinitrophenol	61	66	20-143	8	30				
2,4-Dinitrotoluene	89	91	73-113	3	30				
2,6-Dinitrotoluene	89	90	69-123	1	30				
1,2-Diphenylhydrazine	89	89	71-129	0	30				
bis(2-Ethylhexyl)phthalate	89	90	63-122	1	30				
Hexachlorobenzene	94	95	77-114	1	30				
Hexachlorobutadiene	75	75	62-120	1	30				
Hexachlorocyclopentadiene	71	73	10-153	3	30				
Hexachloroethane	60	60	57-109	0	30				
Isophorone	82	81	73-102	1	30				
2-Methylphenol	85	81	75-111	5	30				
4-Methylphenol	88	88	71-111	0	30				
2-Nitroaniline	86	88	67-125	2	30				
3-Nitroaniline	84	88	59-122	4	30				
4-Nitroaniline	73	78	52-112	6	30				
Nitrobenzene	79	81	72-106	2	30				
2-Nitrophenol	81	79	74-115	2	30				
4-Nitrophenol	83	86	54-113	3	30				
N-Nitroso-di-n-propylamine	78	78	60-116	0	30				
N-Nitrosodiphenylamine	90	90	86-145	0	30				
Pentachlorophenol	70	71	28-127	2	30				
Phenol	86	84	58-126	2	30				
1,2,4-Trichlorobenzene	78	78	72-115	0	30				
2,4,5-Trichlorophenol	85	89	78-109	5	30				
2,4,6-Trichlorophenol	86	90	77-115	4	30				
Batch number: 11035SLC026	Sample number(s): 6196803-6196811 UNSPK: P197571								
Acenaphthene	84	86	63-105	2	30				
Acenaphthylene	81	84	67-114	4	30				
Anthracene	89	85	60-122	4	30				
Benzo(a)anthracene	91	86	59-128	6	30				
Benzo(a)pyrene	85	82	45-138	4	30				
Benzo(b)fluoranthene	89	86	43-155	2	30				
Benzo(g,h,i)perylene	87	83	33-141	5	30				
Benzo(k)fluoranthene	93	88	42-144	6	30				
Butylbenzylphthalate	97	96	57-173	1	30				
Di-n-butylphthalate	99	81	65-148	20	30				
Chrysene	90	85	48-134	6	30				
Dibenz(a,h)anthracene	84	81	22-133	4	30				
Diethylphthalate	87	87	70-136	0	30				
Dimethylphthalate	92	94	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	89	83	39-167	6	30				
Fluoranthene	97	77	26-166	23	30				
Fluorene	90	92	66-122	1	30				
Indeno(1,2,3-cd)pyrene	84	80	21-143	4	30				
1-Methylnaphthalene	82	86	72-123	5	30				
2-Methylnaphthalene	79	80	64-103	1	30				
Naphthalene	88	84	61-102	4	30				
N-Nitrosodimethylamine	79	105	48-113	28	30				

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Quality Control Summary

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Reported: 02/21/11 at 02:02 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	92	73	40-192	23	30				
Phenanthrene	90	86	12-165	5	30				
Pyrene	84	85	15-153	1	30				
Batch number: 110390023A	Sample number(s): 6196805 UNSPK: 6196805								
6a Perchlorate EPA 6850	104	103	80-120	1	20				
Batch number: 110350006A	Sample number(s): 6196803-6196811 UNSPK: 6196803								
PCB-1016	68	78	29-146	13	50				
PCB-1260	107	107	39-149	0	50				
Batch number: 110331026002A	Sample number(s): 6196803-6196811 UNSPK: 6196803 BKG: 6196803								
Antimony	44*	49*	75-125	12	20	0.0723 J	0.0594 U	200* (1)	20
Arsenic	151*	114	75-125	7	20	6.63	7.22	8	20
Beryllium	92	85	75-125	4	20	0.590	0.526	12	20
Cadmium	97	101	75-125	6	20	0.0388 U	0.0406 J	200* (1)	20
Cobalt	84	83	75-125	1	20	4.85	4.92	1	20
Copper	85	82	75-125	2	20	6.21	5.70	9	20
Lead	132*	103	75-125	11	20	3.98	4.17	5	20
Nickel	97	89	75-125	3	20	9.95	9.73	2	20
Silver	96	99	75-125	4	20	0.0117 U	0.0119 U	0 (1)	20
Thallium	96	112	75-125	11	20	0.205	0.216	5 (1)	20
Vanadium	174*	102	75-125	14	20	33.8	34.6	2	20
Zinc	113 (2)	133 (2)	75-125	4	20	45.6	47.3	4	20
Batch number: 110331026002B	Sample number(s): 6196803-6196811 UNSPK: 6196803 BKG: 6196803								
Selenium	98	97	75-125	1	20	0.104 J	0.0841 J	21* (1)	20
Batch number: 110331026002C	Sample number(s): 6196803-6196811 UNSPK: 6196803 BKG: 6196803								
Molybdenum	92	96	75-125	5	20	0.334	0.279	18 (1)	20
Batch number: 110331026002D	Sample number(s): 6196803-6196811 UNSPK: 6196803 BKG: 6196803								
Barium	-371 (2)	-354 (2)	75-125	1	20	106	147	32*	20
Batch number: 110335708002	Sample number(s): 6196803-6196811 UNSPK: 6196803 BKG: 6196803								
Aluminum	228 (2)	260 (2)	75-125	0	20	12,500	13,000	4	20
Boron	93	94	84-115	1	20	0.864 U	0.890 U	0 (1)	20
Calcium	152 (2)	237 (2)	75-125	12	20	2,130	2,770	26*	20
Iron	-1764 (2)	-1450 (2)	75-125	2	20	20,800	22,100	6	20
Lithium	94	95	82-114	1	20	23.6	24.1	2	20
Magnesium	-40 (2)	-34 (2)	75-125	0	20	4,950	4,980	1	20
Manganese	48 (2)	68 (2)	75-125	4	20	200	200	0	20
Phosphorus	80	161*	75-125	20	20	272	265	3	20
Potassium	102	108	75-125	2	20	2,000	1,990	0	20
Sodium	94	93	75-125	1	20	1,110	1,150	3	20
Strontium	93	93	75-115	0	20	27.7	27.9	1	20
Tin	88	89	80-110	2	20	2.24 J	2.34 J	4 (1)	20
Titanium	69 (2)	149 (2)	75-125	5	20	1,320	1,330	1	20
Zirconium	94	95	75-125	1	20	1.57 J	1.93 J	20 (1)	20
Batch number: 110335711002	Sample number(s): 6196803-6196811 UNSPK: 6196803 BKG: 6196803								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Mercury	93	93	65-135	3	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 110471026002A	Sample number(s): 6196803-6196811 UNSPK: 6196803 BKG: 6196803								
Chromium	95	84	75-125	5	20	15.1	14.9	1	20
Batch number: 11040040203A	Sample number(s): 6196803-6196811 UNSPK: 6196803 BKG: 6196803								
11a Anions by 300.0 - Fluoride	54*		80-120			10.8	9.5	12	20
Batch number: 11041243201A	Sample number(s): 6196803-6196811 UNSPK: 6196808 BKG: 6196808								
3a Cr VI by EPA 7199	89		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11042042201A	Sample number(s): 6196803-6196811 UNSPK: 110420U BKG: 110420U								
7a Perchlorate EPA 314.0	93		80-120			14.5 J	9.0 U	200* (1)	15
Batch number: 11035039402A	Sample number(s): 6196803-6196811 BKG: 6196803								
22a pH by 9045C						6.94	6.94	0	1
Batch number: 11035182101A	Sample number(s): 6196803-6196811 BKG: 6196803								
32a OR Potential						327	327	0	6
Batch number: 11040162401A	Sample number(s): 6196803-6196811 BKG: P190393								
28a Moisture Content by 160.3						11.2	9.6	15	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6196803	117	110	99	82
6196804	119	111	100	83
6196805	120	112	99	82
6196807	119	113	98	81
6196808	119	111	99	85
6196810	119	111	98	81
Blank	117	109	100	83
LCS	104	104	109	106
MS	106	104	110	106
MSD	103	100	109	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6196806	113	114	101	86

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Surrogate Quality Control

6196809	112	111	101	86
6196811	113	108	102	84
Blank	112	111	102	85
LCS	101	100	110	106
MS	101	102	110	107
MSD	101	100	110	106
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110341AA

	Toluene-d8
6196812	96
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110352AA

	Toluene-d8
6196803	95
6196804	95
6196805	96
6196806	95
6196807	95
6196808	96
6196809	95
6196810	95
6196811	95
Blank	96
LCS	96
LCSD	96
MS	95
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6196812	100	102	97	94
Blank	101	100	99	96
LCS	100	102	99	97
LCSD	100	99	100	97
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11035SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6196803	84	88	92	82	87	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

Surrogate Quality Control

6196804	88	92	89	84	89	90
6196805	84	87	92	80	85	89
6196806	83	86	85	80	82	88
6196807	87	89	89	80	86	91
6196808	86	88	92	82	89	94
6196809	85	87	90	79	86	92
6196810	84	88	90	81	89	90
6196811	81	84	87	78	83	90
Blank	88	91	93	86	92	89
LCS	89	91	89	82	84	89
MS	84	86	87	80	81	86
MSD	84	85	89	80	84	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11035SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6196803	89	103	86
6196804	93	88	90
6196805	90	100	74
6196806	75	79	68
6196807	103	91	87
6196808	105	92	93
6196809	103	91	89
6196810	102	88	85
6196811	96	85	86
Blank	95	86	90
LCS	96	86	82
MS	112	83	86
MSD	86	88	83
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110350006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6196803	77	120
6196804	77	106
6196805	74	108
6196806	66	106
6196807	74	111
6196808	75	113
6196809	73	110
6196810	74	109
6196811	81	114
Blank	62	90
LCS	68	101
LCSD	71	103
MS	75	110
MSD	87	113
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231378
Reported: 02/21/11 at 02:02 PM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1231378 Sample# 6196803-12

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pam Hartman Cari Nichols

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenols EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-187-SA5B-SB-4.0-5.0	2.01.2011	1223	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-187-SA5B-SB-4.5	2.01.2011	1220	SOIL	NONE	4-Encores									X	X												
SL-188-SA5B-SB-4.0-5.0	2.01.2011	1014	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-188-SA5B-SB-4.5	2.01.2011	1010	SOIL	NONE	4-Encores									X	X												
SL-189-SA5B-SB-3.0-4.0	2.01.2011	0904	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-189-SA5B-SB-3.5	2.01.2011	0900	SOIL	NONE	4-Encores									X	X												
SL-190-SA5B-SB-4.0-5.0	2.01.2011	1126	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-190-SA5B-SB-4.5	2.01.2011	1121	SOIL	NONE	4-Encores									X	X												
SL-191-SA5B-SB-4.0-5.0	2.01.2011	1442	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-191-SA5B-SB-4.5	2.01.2011	1436	SOIL	NONE	4-Encores									X	X												
SL-276-SA5B-SB-4.0-5.0	2.01.2011	0948	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-276-SA5B-SB-4.5	2.01.2011	0945	SOIL	NONE	4-Encores									X	X												
SL-277-SA5B-SB-2.5-3.5	2.01.2011	1057	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-277-SA5B-SB-3.0	2.01.2011	1053	SOIL	NONE	4-Encores									X	X												
SL-278-SA5B-SB-2.0-3.0	2.01.2011	1328	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-278-SA5B-SB-2.5	2.01.2011	1325	SOIL	NONE	4-Encores									X	X												
SL-279-SA5B-SB-2.5-3.5	2.01.2011	1457	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-279-SA5B-SB-3.0	2.01.2011	1454	SOIL	NONE	4-Encores									X	X												
TB-020111	2.01.2011		WATER	HCl	4-40 mL VOA VIALS									X	X												

Relinquished by: (Signature) — Date/Time: 02/01/2011 / 17:00

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) Tammy Hebert 2/2/11 1100

Airbill No.(s): 8695 1431 9972

TRIP BLANK

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/02/2011
Group Number: 1231382
SDG: DX046
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-187-SA5B-SB-4.0-5.0 Soil	6196817
SL-188-SA5B-SB-4.0-5.0 Soil	6196818
SL-189-SA5B-SB-3.0-4.0 Soil	6196819
SL-190-SA5B-SB-4.0-5.0 Soil	6196820
SL-191-SA5B-SB-4.0-5.0 Soil	6196821
SL-276-SA5B-SB-4.0-5.0 Soil	6196822
SL-277-SA5B-SB-2.5-3.5 Soil	6196823
SL-278-SA5B-SB-2.0-3.0 Soil	6196824
SL-279-SA5B-SB-2.5-3.5 Soil	6196825

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-187-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196817
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX046-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196817
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX046-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0206	U	0.0206	1.07	1
11031	12378-PeCDD	40321-76-4	0.0178	U	0.0178	5.35	1
11031	123478-HxCDD	39227-28-6	0.0168	U	0.0168	5.35	1
11031	123678-HxCDD	57653-85-7	0.0202	JBQ	0.0165	5.35	1
11031	123789-HxCDD	19408-74-3	0.0348	JBQ	0.0155	5.35	1
11031	1234678-HpCDD	35822-46-9	0.136	JBQ	0.0231	5.35	1
11031	OCDD	3268-87-9	0.468	JBQ	0.0248	10.7	1
11031	2378-TCDF	51207-31-9	0.0218	U	0.0218	1.07	1
11031	12378-PeCDF	57117-41-6	0.0105	JB	0.00845	5.35	1
11031	23478-PeCDF	57117-31-4	0.0345	JBQ	0.00930	5.35	1
11031	123478-HxCDF	70648-26-9	0.0402	JB	0.0147	5.35	1
11031	123678-HxCDF	57117-44-9	0.0215	JB	0.00984	5.35	1
11031	123789-HxCDF	72918-21-9	0.0151	U	0.0151	5.35	1
11031	234678-HxCDF	60851-34-5	0.0122	JBQ	0.0114	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0697	JBQ	0.00888	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0174	U	0.0174	5.35	1
11031	OCDF	39001-02-0	0.170	JBQ	0.0443	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-187-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196817
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX046-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5B-SB-4.0-5.0

LLI Sample # SW 6196817
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 12:23

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX046-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 05:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-188-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196818
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4613 SDG#: DX046-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-188-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196818
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4613 SDG#: DX046-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0254	JB	0.0234	1.12	1
11031	12378-PeCDD	40321-76-4	0.0228	U	0.0228	5.59	1
11031	123478-HxCDD	39227-28-6	0.0227	U	0.0227	5.59	1
11031	123678-HxCDD	57653-85-7	0.0230	U	0.0230	5.59	1
11031	123789-HxCDD	19408-74-3	0.0310	JBQ	0.0216	5.59	1
11031	1234678-HpCDD	35822-46-9	0.154	JB	0.0312	5.59	1
11031	OCDD	3268-87-9	0.446	JB	0.0265	11.2	1
11031	2378-TCDF	51207-31-9	0.0247	U	0.0247	1.12	1
11031	12378-PeCDF	57117-41-6	0.0145	JBQ	0.0107	5.59	1
11031	23478-PeCDF	57117-31-4	0.0405	JBQ	0.0119	5.59	1
11031	123478-HxCDF	70648-26-9	0.0382	JBQ	0.0112	5.59	1
11031	123678-HxCDF	57117-44-9	0.0243	JBQ	0.00850	5.59	1
11031	123789-HxCDF	72918-21-9	0.0122	U	0.0122	5.59	1
11031	234678-HxCDF	60851-34-5	0.0122	JBQ	0.0101	5.59	1
11031	1234678-HpCDF	67562-39-4	0.0449	JBQ	0.00805	5.59	1
11031	1234789-HpCDF	55673-89-7	0.0154	U	0.0154	5.59	1
11031	OCDF	39001-02-0	0.0442	U	0.0442	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-188-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196818
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4613 SDG#: DX046-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-188-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5B-SB-4.0-5.0

LLI Sample # SW 6196818
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:14

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4613 SDG#: DX046-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 06:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196819
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4614 SDG#: DX046-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-189-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196819
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4614 SDG#: DX046-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0207 U	0.0207	1.09	1
11031	12378-PeCDD	40321-76-4	0.0237 JBQ	0.0198	5.47	1
11031	123478-HxCDD	39227-28-6	0.0161 U	0.0161	5.47	1
11031	123678-HxCDD	57653-85-7	0.0250 JBQ	0.0162	5.47	1
11031	123789-HxCDD	19408-74-3	0.0183 JBQ	0.0153	5.47	1
11031	1234678-HpCDD	35822-46-9	0.172 JB	0.0252	5.47	1
11031	OCDD	3268-87-9	0.374 JB	0.0269	10.9	1
11031	2378-TCDF	51207-31-9	0.0190 U	0.0190	1.09	1
11031	12378-PeCDF	57117-41-6	0.0109 JBQ	0.00952	5.47	1
11031	23478-PeCDF	57117-31-4	0.0513 JB	0.0113	5.47	1
11031	123478-HxCDF	70648-26-9	0.0135 U	0.0135	5.47	1
11031	123678-HxCDF	57117-44-9	0.00908 U	0.00908	5.47	1
11031	123789-HxCDF	72918-21-9	0.0143 JBQ	0.0117	5.47	1
11031	234678-HxCDF	60851-34-5	0.0105 JBQ	0.00996	5.47	1
11031	1234678-HpCDF	67562-39-4	0.0293 JB	0.00810	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0261 JBQ	0.0148	5.47	1
11031	OCDF	39001-02-0	0.0959 JBQ	0.0461	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196819
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4614 SDG#: DX046-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-189-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5B-SB-3.0-4.0

LLI Sample # SW 6196819
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:04

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4614 SDG#: DX046-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 07:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-190-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196820
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4615 SDG#: DX046-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-190-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196820
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4615 SDG#: DX046-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0278 U	0.0278	1.13	1
11031	12378-PeCDD	40321-76-4	0.0562 JBQ	0.0231	5.64	1
11031	123478-HxCDD	39227-28-6	0.0291 JBQ	0.0207	5.64	1
11031	123678-HxCDD	57653-85-7	0.0435 JBQ	0.0217	5.64	1
11031	123789-HxCDD	19408-74-3	0.0260 JBQ	0.0203	5.64	1
11031	1234678-HpCDD	35822-46-9	0.142 JBQ	0.0297	5.64	1
11031	OCDD	3268-87-9	0.431 JB	0.0298	11.3	1
11031	2378-TCDF	51207-31-9	0.0294 JBQ	0.0254	1.13	1
11031	12378-PeCDF	57117-41-6	0.0535 JB	0.0108	5.64	1
11031	23478-PeCDF	57117-31-4	0.0859 JBQ	0.0119	5.64	1
11031	123478-HxCDF	70648-26-9	0.0411 JBQ	0.0163	5.64	1
11031	123678-HxCDF	57117-44-9	0.0443 JBQ	0.0120	5.64	1
11031	123789-HxCDF	72918-21-9	0.0152 U	0.0152	5.64	1
11031	234678-HxCDF	60851-34-5	0.0447 JB	0.0129	5.64	1
11031	1234678-HpCDF	67562-39-4	0.0795 JB	0.0121	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0225 U	0.0225	5.64	1
11031	OCDF	39001-02-0	0.110 JBQ	0.0560	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-190-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196820
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4615 SDG#: DX046-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-190-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5B-SB-4.0-5.0

LLI Sample # SW 6196820
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 11:26

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4615 SDG#: DX046-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 08:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196821
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4616 SDG#: DX046-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196821
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4616 SDG#: DX046-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0329 JBQ	0.0253	1.09	1
11031	12378-PeCDD	40321-76-4	0.190 JBQ	0.0259	5.43	1
11031	123478-HxCDD	39227-28-6	0.0683 JB	0.0272	5.43	1
11031	123678-HxCDD	57653-85-7	0.141 JB	0.0258	5.43	1
11031	123789-HxCDD	19408-74-3	0.215 JB	0.0250	5.43	1
11031	1234678-HpCDD	35822-46-9	0.228 JB	0.0351	5.43	1
11031	OCDD	3268-87-9	0.537 JBQ	0.0287	10.9	1
11031	2378-TCDF	51207-31-9	0.0557 JBQ	0.0270	1.09	1
11031	12378-PeCDF	57117-41-6	0.169 JBQ	0.0120	5.43	1
11031	23478-PeCDF	57117-31-4	0.179 JBQ	0.0141	5.43	1
11031	123478-HxCDF	70648-26-9	0.0961 JB	0.0265	5.43	1
11031	123678-HxCDF	57117-44-9	0.113 JB	0.0172	5.43	1
11031	123789-HxCDF	72918-21-9	0.137 JB	0.0222	5.43	1
11031	234678-HxCDF	60851-34-5	0.0698 JBQ	0.0167	5.43	1
11031	1234678-HpCDF	67562-39-4	0.105 JBQ	0.0142	5.43	1
11031	1234789-HpCDF	55673-89-7	0.142 JBQ	0.0234	5.43	1
11031	OCDF	39001-02-0	0.324 JBQ	0.0623	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196821
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4616 SDG#: DX046-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-191-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5B-SB-4.0-5.0

LLI Sample # SW 6196821
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:42

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4616 SDG#: DX046-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 12:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-276-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196822
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4617 SDG#: DX046-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-276-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196822
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4617 SDG#: DX046-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0324 U	0.0324	1.09	1
11031	12378-PeCDD	40321-76-4	0.0973 JBQ	0.0285	5.46	1
11031	123478-HxCDD	39227-28-6	0.0457 JBQ	0.0259	5.46	1
11031	123678-HxCDD	57653-85-7	0.0784 JB	0.0260	5.46	1
11031	123789-HxCDD	19408-74-3	0.146 JBQ	0.0261	5.46	1
11031	1234678-HpCDD	35822-46-9	0.223 JB	0.0443	5.46	1
11031	OCDD	3268-87-9	0.559 JB	0.0395	10.9	1
11031	2378-TCDF	51207-31-9	0.0338 JBQ	0.0322	1.09	1
11031	12378-PeCDF	57117-41-6	0.110 JB	0.0133	5.46	1
11031	23478-PeCDF	57117-31-4	0.112 JB	0.0158	5.46	1
11031	123478-HxCDF	70648-26-9	0.0437 JB	0.0206	5.46	1
11031	123678-HxCDF	57117-44-9	0.0751 JBQ	0.0147	5.46	1
11031	123789-HxCDF	72918-21-9	0.130 JBQ	0.0254	5.46	1
11031	234678-HxCDF	60851-34-5	0.0410 JBQ	0.0191	5.46	1
11031	1234678-HpCDF	67562-39-4	0.0830 JB	0.0103	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0810 JBQ	0.0249	5.46	1
11031	OCDF	39001-02-0	0.235 JBQ	0.0926	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-276-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196822
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4617 SDG#: DX046-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-276-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-276-SA5B-SB-4.0-5.0

LLI Sample # SW 6196822
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 09:48

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4617 SDG#: DX046-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 13:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196823
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4618 SDG#: DX046-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196823
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4618 SDG#: DX046-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0257 U	0.0257	1.12	1
11031	12378-PeCDD	40321-76-4	0.0218 U	0.0218	5.61	1
11031	123478-HxCDD	39227-28-6	0.0224 JBQ	0.0195	5.61	1
11031	123678-HxCDD	57653-85-7	0.0408 JBQ	0.0209	5.61	1
11031	123789-HxCDD	19408-74-3	0.0641 JBQ	0.0204	5.61	1
11031	1234678-HpCDD	35822-46-9	0.242 JB	0.0370	5.61	1
11031	OCDD	3268-87-9	1.49 JB	0.0247	11.2	1
11031	2378-TCDF	51207-31-9	0.0311 JBQ	0.0253	1.12	1
11031	12378-PeCDF	57117-41-6	0.0338 JBQ	0.0110	5.61	1
11031	23478-PeCDF	57117-31-4	0.0619 JBQ	0.0116	5.61	1
11031	123478-HxCDF	70648-26-9	0.0451 JBQ	0.0145	5.61	1
11031	123678-HxCDF	57117-44-9	0.0243 JBQ	0.0109	5.61	1
11031	123789-HxCDF	72918-21-9	0.0545 JB	0.0167	5.61	1
11031	234678-HxCDF	60851-34-5	0.0396 JBQ	0.0147	5.61	1
11031	1234678-HpCDF	67562-39-4	0.0593 JBQ	0.00909	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0435 JBQ	0.0175	5.61	1
11031	OCDF	39001-02-0	0.143 JB	0.0565	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196823
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4618 SDG#: DX046-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-277-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-277-SA5B-SB-2.5-3.5

LLI Sample # SW 6196823
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 10:57

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4618 SDG#: DX046-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 14:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-278-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196824
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4619 SDG#: DX046-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-278-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196824
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4619 SDG#: DX046-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0287	U	0.0287	1.10	1
11031	12378-PeCDD	40321-76-4	0.0222	U	0.0222	5.49	1
11031	123478-HxCDD	39227-28-6	0.0245	U	0.0245	5.49	1
11031	123678-HxCDD	57653-85-7	0.115	JBQ	0.0257	5.49	1
11031	123789-HxCDD	19408-74-3	0.0964	JBQ	0.0251	5.49	1
11031	1234678-HpCDD	35822-46-9	0.533	JBQ	0.0420	5.49	1
11031	OCDD	3268-87-9	5.02	JB	0.0377	11.0	1
11031	2378-TCDF	51207-31-9	0.0307	U	0.0307	1.10	1
11031	12378-PeCDF	57117-41-6	0.0258	JBQ	0.0118	5.49	1
11031	23478-PeCDF	57117-31-4	0.0567	JBQ	0.0134	5.49	1
11031	123478-HxCDF	70648-26-9	0.0252	JBQ	0.0131	5.49	1
11031	123678-HxCDF	57117-44-9	0.0414	JBQ	0.00967	5.49	1
11031	123789-HxCDF	72918-21-9	0.0392	JB	0.0165	5.49	1
11031	234678-HxCDF	60851-34-5	0.0173	JBQ	0.0120	5.49	1
11031	1234678-HpCDF	67562-39-4	0.100	JB	0.0109	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0298	JBQ	0.0222	5.49	1
11031	OCDF	39001-02-0	0.209	JBQ	0.0555	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-278-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196824
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4619 SDG#: DX046-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-278-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-278-SA5B-SB-2.0-3.0

LLI Sample # SW 6196824
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 13:28

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4619 SDG#: DX046-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 15:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-279-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196825
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4620 SDG#: DX046-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-279-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196825
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4620 SDG#: DX046-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0258	U	0.0258	1.10	1
11031	12378-PeCDD	40321-76-4	0.0200	U	0.0200	5.51	1
11031	123478-HxCDD	39227-28-6	0.0185	U	0.0185	5.51	1
11031	123678-HxCDD	57653-85-7	0.0230	JBQ	0.0188	5.51	1
11031	123789-HxCDD	19408-74-3	0.0184	U	0.0184	5.51	1
11031	1234678-HpCDD	35822-46-9	0.189	JBQ	0.0335	5.51	1
11031	OCDD	3268-87-9	0.906	JB	0.0282	11.0	1
11031	2378-TCDF	51207-31-9	0.0236	U	0.0236	1.10	1
11031	12378-PeCDF	57117-41-6	0.0115	JBQ	0.0102	5.51	1
11031	23478-PeCDF	57117-31-4	0.0627	JBQ	0.0122	5.51	1
11031	123478-HxCDF	70648-26-9	0.0371	JBQ	0.0145	5.51	1
11031	123678-HxCDF	57117-44-9	0.0147	JBQ	0.0106	5.51	1
11031	123789-HxCDF	72918-21-9	0.0390	JBQ	0.0194	5.51	1
11031	234678-HxCDF	60851-34-5	0.0174	JBQ	0.0135	5.51	1
11031	1234678-HpCDF	67562-39-4	0.0554	JBQ	0.0110	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0259	U	0.0259	5.51	1
11031	OCDF	39001-02-0	0.116	JB	0.0609	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-279-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196825
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4620 SDG#: DX046-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-279-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-279-SA5B-SB-2.5-3.5

LLI Sample # SW 6196825
LLI Group # 1231382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/01/2011 14:57

Submitted: 02/02/2011 11:00
Reported: 03/03/2011 17:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4620 SDG#: DX046-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 16:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11040162401A	02/09/2011 16:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231382
Reported: 03/03/11 at 05:53 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11040162401A	Sample number(s): 6196817-6196825								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11041001	Sample number(s): 6196817-6196825								
2378-TCDD	0.0355 J	0.0281	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0443 J	0.0280	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0358 J	0.0202	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0308 J	0.0202	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0286 J	0.0187	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.174 J	0.0332	5.00	ng/kg	98		70-140		
OCDD	0.352 J	0.0266	10.0	ng/kg	95		78-144		
2378-TCDF	0.0315 J	0.0271	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0365 J	0.0131	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0628 J	0.0141	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0430 J	0.0142	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0232 J	0.0108	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0808 J	0.0142	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0444 J	0.0120	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0900 J	0.0106	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0688 J	0.0176	5.00	ng/kg	97		78-138		
OCDF	0.294 J	0.0459	10.0	ng/kg	99		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11040162401A	Sample number(s): 6196817-6196825 BKG: P190393								
28a Moisture Content by 160.3						11.2	9.6	15	20
Batch number: 11041001	Sample number(s): 6196817-6196825 UNSPK: P197634								
2378-TCDD	99	99	67-158	0	25				
12378-PeCDD	98	103	70-142	5	25				
123478-HxCDD	96	102	70-164	7	25				
123678-HxCDD	97	102	76-134	5	25				
123789-HxCDD	97	100	64-162	3	25				
1234678-HpCDD	98	99	70-140	1	25				
OCDD	96	99	78-144	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231382
Reported: 03/03/11 at 05:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	108	109	75-158	1	25				
12378-PeCDF	96	102	80-134	6	25				
23478-PeCDF	94	101	68-160	7	25				
123478-HxCDF	100	100	72-134	0	25				
123678-HxCDF	97	96	84-130	1	25				
123789-HxCDF	97	98	78-130	1	25				
234678-HxCDF	99	99	70-156	0	25				
1234678-HpCDF	96	96	82-122	1	25				
1234789-HpCDF	98	97	78-138	1	25				
OCDF	98	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11041001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6196817	75	75	56	79	69	61
6196818	68	71	67	83	72	72
6196819	77	71	54	78	70	69
6196820	69	74	54	73	67	64
6196821	76	74	45	66	69	62
6196822	73	74	67	92	70	62
6196823	77	79	72	91	70	75
6196824	65	70	64	81	66	58
6196825	73	73	65	85	67	55
Blank	70	74	67	87	79	78
MS	93	84	65	97	87	82
MSD	87	83	71	99	84	75
OPR	70	68	66	87	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6196817	97	58	50	86	92	81
6196818	96	61	55	84	86	77
6196819	83	56	54	85	91	78
6196820	82	54	49	81	93	72
6196821	74	56	49	84	81	75
6196822	101	52	47	96	95	81
6196823	93	58	57	94	94	83
6196824	83	52	49	82	83	72
6196825	94	51	48	90	93	79
Blank	92	67	72	88	78	84
MS	100	75	71	104	92	91

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231382
Reported: 03/03/11 at 05:53 PM

Surrogate Quality Control

MSD	98	71	71	91	98	87
OPR	90	54	56	89	74	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6196817	82	84	86	83	67	90
6196818	77	80	77	76	63	83
6196819	82	84	81	80	71	92
6196820	74	77	72	71	65	87
6196821	78	82	80	79	68	88
6196822	83	84	79	72	69	94
6196823	82	84	80	78	74	93
6196824	71	71	68	67	60	82
6196825	81	83	76	82	68	90
Blank	85	87	85	90	67	84
MS	94	102	95	88	89	100
MSD	88	91	86	87	84	101
OPR	77	79	81	79	66	85
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap# 1231332 sample# 6196517-25

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Pam Kaufman Carl Roberts																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-187-SA5B-SB-4.0-5.0	2.01.2011	1223	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-187-SA5B-SB-4.5	2.01.2011	1220	SOIL	NONE	4-Encores									X	X												
SL-188-SA5B-SB-4.0-5.0	2.01.2011	1014	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-188-SA5B-SB-4.5	2.01.2011	1010	SOIL	NONE	4-Encores									X	X												
SL-189-SA5B-SB-3.0-4.0	2.01.2011	0904	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-189-SA5B-SB-3.5	2.01.2011	0900	SOIL	NONE	4-Encores									X	X												
SL-190-SA5B-SB-4.0-5.0	2.01.2011	1126	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-190-SA5B-SB-4.5	2.01.2011	1121	SOIL	NONE	4-Encores									X	X												
SL-191-SA5B-SB-4.0-5.0	2.01.2011	1442	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-191-SA5B-SB-4.5	2.01.2011	1436	SOIL	NONE	4-Encores									X	X												
SL-276-SA5B-SB-4.0-5.0	2.01.2011	0948	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-276-SA5B-SB-4.5	2.01.2011	0945	SOIL	NONE	4-Encores									X	X												
SL-277-SA5B-SB-2.5-3.5	2.01.2011	1057	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-277-SA5B-SB-3.0	2.01.2011	1053	SOIL	NONE	4-Encores									X	X												
SL-278-SA5B-SB-2.0-3.0	2.01.2011	1328	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-278-SA5B-SB-2.5	2.01.2011	1325	SOIL	NONE	4-Encores									X	X												
SL-279-SA5B-SB-2.5-3.5	2.01.2011	1457	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-279-SA5B-SB-3.0	2.01.2011	1454	SOIL	NONE	4-Encores									X	X												
TB-020111	2.01.2011		WATER	HCl	4-40 mL VOA VIALS									X	X												
																											TRIP BLANK

Relinquished by: (Signature)	Date/Time 02/01/2011 / 17:00	Received for Laboratory by: (Signature) Tammy Delal 2/2/11 1100	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s) 8695 1431 9972	No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/03/2011
Group Number: 1231532
SDG: DE073
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP21-SA5B-QC-013111 Soil	6197570
SL-182-SA5B-SB-4.0-5.0 Soil	6197571
SL-182-SA5B-SB-4.0-5.0MS Soil	6197572
SL-182-SA5B-SB-4.0-5.0MSD Soil	6197573
SL-182-SA5B-SB-4.0-5.0DUP Soil	6197574
SL-204-SA5B-SB-4.0-5.0 Soil	6197575
TB-013111 Water	6197576

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Martha L. Seidel
Senior Chemist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP21-SA5B-QC-013111 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.93
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.93
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.93
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.93
06192	Ethylbenzene	100-41-4	0.31	J	0.06	4.2		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.93
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.93
06192	Methylene Chloride	75-09-2	0.52	J	0.25	4.2		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.93

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.93
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.93
06192	m+p-Xylene	179601-23-1	1.2	J	0.18	4.2		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.93
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.69
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.1		0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	3.7		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	12		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	13		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	18		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	4.9		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	8.0		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	14		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	J	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.8	21		1
10138	Fluoranthene	206-44-0	28		0.76	1.9		1
10138	Fluorene	86-73-7	1.5	J	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.1		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	16		0.76	1.9		1
10138	Pyrene	129-00-0	24		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.74
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.1	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	4.8		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.0	U	8.0	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The sample was injected numerous times. Each time the responses for various							

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Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,700		5.62	22.4		1
07914	Boron	7440-42-8	0.995	U	0.995	5.59		1
01650	Calcium	7440-70-2	3,120		6.85	22.4		1
01654	Iron	7439-89-6	26,800		5.27	22.4		1
01656	Lithium	7439-93-2	27.1		0.25	2.2		1
01657	Magnesium	7439-95-4	4,870		2.84	11.2		1
06958	Manganese	7439-96-5	261		0.0872	0.559		1
10145	Phosphorus	7723-14-0	102		0.626	11.2		1
01662	Potassium	7440-09-7	1,580		20.1	55.9		1
01667	Sodium	7440-23-5	167		41.7	112		1
07968	Strontium	7440-24-6	27.7		0.0693	0.559		1
06969	Tin	7440-31-5	3.10	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,240		0.425	1.12		1
10146	Zirconium	7440-67-7	3.70	J	0.939	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.44		0.0894	0.447		2
06126	Barium	7440-39-3	122		0.121	0.447		2
06127	Beryllium	7440-41-7	0.927		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.114		0.0447	0.112		2
06131	Chromium	7440-47-3	26.2		0.134	0.447		2
06132	Cobalt	7440-48-4	6.70		0.0224	0.112		2
06133	Copper	7440-50-8	9.37		0.0738	0.447		2
06135	Lead	7439-92-1	9.30		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.312		0.0559	0.112		2
06139	Nickel	7440-02-0	14.1		0.112	0.447		2
06141	Selenium	7782-49-2	0.0675	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0406	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.246		0.0335	0.112		2
06148	Vanadium	7440-62-2	47.1		0.0246	0.112		2
06149	Zinc	7440-66-6	51.1		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1

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Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	455		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 01:30	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110351AA	02/04/2011 11:52	Jason M Long	22.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 13:24	Christopher M Klumpp	n.a.

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Sample Description: DUP21-SA5B-QC-013111 Soil
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 13:21	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11035SLD026	02/11/2011 20:19	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 04:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 22:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11035SLD026	02/05/2011 09:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34A	02/04/2011 20:02	Marie D John	21.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201103423627	02/03/2011 13:20	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110370014A	02/11/2011 22:02	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110360004A	02/07/2011 19:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 21:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110360004A	02/06/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110370014A	02/07/2011 12:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110350001A	02/04/2011 13:48	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110350025A	02/04/2011 19:48	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110420003A	02/11/2011 18:57	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110350011A	02/07/2011 19:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110350001A	02/04/2011 04:50	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	110350011A	02/04/2011 17:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110420003A	02/11/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110350025A	02/04/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110345708002	02/09/2011 17:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1

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Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197570
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

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Suite 210
Chantilly VA 20151

DUP21 SDG#: DE073-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110345708002	02/04/2011 12:52	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06126	Barium	SW-846 6020	1	110341026001D	02/11/2011 22:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06131	Chromium	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06133	Copper	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06135	Lead	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110341026001C	02/11/2011 22:36	David K Beck	2
06139	Nickel	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06141	Selenium	SW-846 6020	1	110341026001B	02/11/2011 22:36	David K Beck	2
06142	Silver	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06145	Thallium	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
06149	Zinc	SW-846 6020	1	110341026001A	02/11/2011 22:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	110345711001	02/04/2011 08:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110341026001	02/03/2011 20:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110345711001	02/03/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 12:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11046046201A	02/16/2011 12:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201B	02/18/2011 03:54	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11040243201A	02/11/2011 14:18	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11041102201A	02/10/2011 18:26	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11041102201A	02/10/2011 15:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11035182101B	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402A	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-182-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.89
06192	Methylene Chloride	75-09-2	0.50	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

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Sample Description: SL-182-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.82
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

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Analysis Report

Sample Description: SL-182-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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Sample Description: SL-182-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL182 SDG#: DE073-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	1,100		46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
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SL182 SDG#: DE073-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.0	U	8.0	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The sample was injected numerous times. Each time the responses for various							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-182-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,200		5.74	22.8		1
07914	Boron	7440-42-8	1.02	U	1.02	5.71		1
01650	Calcium	7440-70-2	3,220		7.00	22.8		1
01654	Iron	7439-89-6	29,600		5.38	22.8		1
01656	Lithium	7439-93-2	30.1		0.25	2.3		1
01657	Magnesium	7439-95-4	5,550		2.90	11.4		1
06958	Manganese	7439-96-5	1,010		0.0890	0.571		1
10145	Phosphorus	7723-14-0	144		0.639	11.4		1
01662	Potassium	7440-09-7	1,820		20.5	57.1		1
01667	Sodium	7440-23-5	177		42.6	114		1
07968	Strontium	7440-24-6	30.3		0.0708	0.571		1
06969	Tin	7440-31-5	2.99	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,320		0.434	1.14		1
10146	Zirconium	7440-67-7	4.26	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.156	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.11		0.0887	0.443		2
06126	Barium	7440-39-3	132		0.120	0.443		2
06127	Beryllium	7440-41-7	0.967		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0999	J	0.0443	0.111		2
06131	Chromium	7440-47-3	26.1		0.133	0.443		2
06132	Cobalt	7440-48-4	7.72		0.0222	0.111		2
06133	Copper	7440-50-8	9.77		0.0731	0.443		2
06135	Lead	7439-92-1	8.56		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.353		0.0554	0.111		2
06139	Nickel	7440-02-0	18.9		0.111	0.443		2
06141	Selenium	7782-49-2	0.0848	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0374	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.263		0.0332	0.111		2
06148	Vanadium	7440-62-2	48.4		0.0244	0.111		2
06149	Zinc	7440-66-6	55.6		0.621	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-182-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	462		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-182-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011	01:53	Laura M Krieger	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110351AA	02/04/2011	13:30	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011	13:31	Christopher M Klumpp	n.a.

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Sample Description: **SL-182-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 13:28	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11035SLD026	02/11/2011 19:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/08/2011 23:53	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 12:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11035SLD026	02/05/2011 09:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34A	02/04/2011 20:38	Marie D John	23.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201103423627	02/03/2011 13:27	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110370014A	02/11/2011 22:45	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110360004A	02/07/2011 19:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 21:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110360004A	02/06/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110370014A	02/07/2011 12:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110350001A	02/04/2011 14:13	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110350025A	02/04/2011 20:03	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110420003A	02/11/2011 19:15	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110350011A	02/07/2011 20:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110350001A	02/04/2011 04:50	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	110350011A	02/04/2011 17:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110420003A	02/11/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110350025A	02/04/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110345708002	02/09/2011 17:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-182-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197571
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110345708002	02/04/2011 11:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06126	Barium	SW-846 6020	1	110341026001D	02/11/2011 22:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06128	Cadmium	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06131	Chromium	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06133	Copper	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06135	Lead	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110341026001C	02/16/2011 05:17	David K Beck	2
06139	Nickel	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06141	Selenium	SW-846 6020	1	110341026001B	02/11/2011 22:17	David K Beck	2
06142	Silver	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06145	Thallium	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
06149	Zinc	SW-846 6020	1	110341026001A	02/11/2011 22:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	110345711001	02/04/2011 08:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110341026001	02/03/2011 20:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110345711001	02/03/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 11:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11046046201A	02/16/2011 11:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201B	02/18/2011 02:13	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/11/2011 14:37	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11041102201A	02/10/2011 18:27	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11041102201A	02/10/2011 15:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11035182101B	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402B	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-182-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	6.7	8.0		0.87
06192	Benzene	71-43-2	19	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	15	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	20	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	19	0.08	4.0		0.87
06192	Bromoform	75-25-2	19	0.40	4.0		0.87
06192	Bromomethane	74-83-9	18	0.25	4.0		0.87
06192	2-Butanone	78-93-3	120	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	13	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	13	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	13	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	22	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	18	0.11	4.0		0.87
06192	Chloroethane	75-00-3	17	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	14	0.30	4.0		0.87
06192	Chloroform	67-66-3	21	0.12	4.0		0.87
06192	Chloromethane	74-87-3	17	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	15	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	15	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	16	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	21	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	18	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	19	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	16	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	15	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	16	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	13	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	21	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	20	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	23	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	19	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	19	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	19	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	22	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	19	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	15	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	16	0.06	4.0		0.87
06192	Freon 113	76-13-1	24	0.11	4.0		0.87
06192	Freon 133a	75-88-7	17	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	12	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	56	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	14	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	13	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	60	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	20	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	15	0.07	4.0		0.87

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Sample Description: SL-182-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	17		0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	21		0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	19		0.20	4.0		0.87
06192	Toluene	108-88-3	19		0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	13		0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	11		0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	21		0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	20		0.27	4.0		0.87
06192	Trichloroethene	79-01-6	18		0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	20		0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	17		0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	14		0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	14		0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	17		0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	36		0.17	4.0		0.87
06192	o-Xylene	95-47-6	15		0.17	4.0		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	100		5.2	16		22.85
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	842		19.0	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		19	190		1
04688	Acenaphthylene	208-96-8	1,700		19	190		1
04688	Aniline	62-53-3	1,100		190	570		1
04688	Anthracene	120-12-7	1,700		19	190		1
04688	Benzidine	92-87-5	3,000	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,400		190	570		1
04688	Benzyl alcohol	100-51-6	1,700		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,700		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,700		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		38	190		1
04688	4-Chloroaniline	106-47-8	840		76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		19	190		1

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Sample Description: SL-182-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,300	19	190		1
04688	2-Chlorophenol	95-57-8	1,600	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	38	190		1
04688	Chrysene	218-01-9	1,800	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700	19	190		1
04688	Dibenzofuran	132-64-9	1,700	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,300	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,200	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,300	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,600	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,600	38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	38	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,300	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	19	380		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,800	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,400	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	570		1
04688	Hexachloroethane	67-72-1	1,100	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190		1
04688	Isophorone	78-59-1	1,600	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,600	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500	19	190		1
04688	2-Methylphenol	95-48-7	1,600	38	190		1
04688	4-Methylphenol	106-44-5	1,700	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,500	19	190		1
04688	2-Nitroaniline	88-74-4	1,600	19	190		1
04688	3-Nitroaniline	99-09-2	1,600	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	76	190		1
04688	Nitrobenzene	98-95-3	1,500	19	190		1
04688	2-Nitrophenol	88-75-5	1,500	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1

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Sample Description: SL-182-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	570		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1
04688	Pyrene	129-00-0	1,800	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32	0.76	1.9		1
10138	Acenaphthylene	208-96-8	31	0.38	1.9		1
10138	Anthracene	120-12-7	34	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	35	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	32	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	34	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	33	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	36	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	37	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	38	6.9	21		1
10138	Chrysene	218-01-9	34	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	32	0.76	1.9		1
10138	Diethylphthalate	84-66-2	33	6.9	21		1
10138	Dimethylphthalate	131-11-3	35	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41	6.9	21		1
10138	Fluoranthene	206-44-0	37	0.76	1.9		1
10138	Fluorene	86-73-7	34	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	31	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	30	0.76	1.9		1
10138	Naphthalene	91-20-3	33	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	30	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	35	6.9	21		1
10138	Phenanthrene	85-01-8	34	0.76	1.9		1
10138	Pyrene	129-00-0	32	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.1	0.2	1.1		23.5
Explosives	**SW-846 8330A**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400	46	140	10000000	1

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Sample Description: SL-182-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	3,100		46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,300		46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,500		46	140	10000000	1
10132	HMX	2691-41-0	2,200		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,300		46	140	10000000	1
10132	Nitroglycerin	55-63-0	51,000		910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,300		91	140	10000000	1
10132	PETN	78-11-5	62,000		910	2,700	10000000	1
10132	RDX	121-82-4	2,200		57	140	10000000	1
10132	Tetryl	479-45-8	1,900		70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,300		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	18		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	22		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-182-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.75	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.5		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	4.6		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.62	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,400		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	120		5.7	14		1
08283	Ethylene glycol	107-21-1	170		5.7	14		1
08283	Propylene glycol	57-55-6	170		5.7	14		1
The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.								
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	J	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	4.0		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,700		5.74	22.8		1
07914	Boron	7440-42-8	209		1.02	5.71		1
01650	Calcium	7440-70-2	3,630		7.00	22.8		1
01654	Iron	7439-89-6	27,300		5.38	22.8		1
01656	Lithium	7439-93-2	140		0.25	2.3		1
01657	Magnesium	7439-95-4	5,540		2.90	11.4		1
06958	Manganese	7439-96-5	646		0.0890	0.571		1
10145	Phosphorus	7723-14-0	237		0.639	11.4		1
01662	Potassium	7440-09-7	3,210		20.5	57.1		1
01667	Sodium	7440-23-5	1,260		42.6	114		1
07968	Strontium	7440-24-6	134		0.0708	0.571		1
06969	Tin	7440-31-5	405		1.14	11.4		1
06970	Titanium	7440-32-6	1,560		0.434	1.14		1
10146	Zirconium	7440-67-7	111		0.959	5.71		1

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Sample Description: SL-182-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.915	0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.8	0.0913	0.457		2
06126	Barium	7440-39-3	147	0.123	0.457		2
06127	Beryllium	7440-41-7	1.80	0.0183	0.114		2
06128	Cadmium	7440-43-9	1.31	0.0457	0.114		2
06131	Chromium	7440-47-3	37.0	0.137	0.457		2
06132	Cobalt	7440-48-4	61.5	0.0228	0.114		2
06133	Copper	7440-50-8	20.4	0.0753	0.457		2
06135	Lead	7439-92-1	12.6	0.0119	0.228		2
06138	Molybdenum	7439-98-7	11.4	0.0571	0.114		2
06139	Nickel	7440-02-0	29.7	0.114	0.457		2
06141	Selenium	7782-49-2	2.29	0.0457	0.457		2
06142	Silver	7440-22-4	11.6	0.0137	0.114		2
06145	Thallium	7440-28-0	0.750	0.0342	0.114		2
06148	Vanadium	7440-62-2	59.9	0.0251	0.114		2
06149	Zinc	7440-66-6	66.8	0.639	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.181	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.0	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.7	0.91	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	572	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.3	1.1	5.7		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	6.2	0.20	0.57		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-182-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-182-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 02:15	Laura M Krieger	0.87
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011 03:00	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110351AA	02/04/2011 14:00	Jason M Long	22.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 13:35	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 13:33	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11035SLD026	02/11/2011 19:45	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 00:19	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 13:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11035SLD026	02/05/2011 09:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34A	02/04/2011 21:15	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201103423627	02/03/2011 13:32	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110370014A	02/11/2011 23:27	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110360004A	02/07/2011 19:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 22:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110360004A	02/06/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110370014A	02/07/2011 12:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110350001A	02/04/2011 14:38	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110350025A	02/04/2011 20:17	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110420003A	02/11/2011 14:52	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110350011A	02/07/2011 20:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110350001A	02/04/2011 04:50	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	110350011A	02/04/2011 17:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110420003A	02/11/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110350025A	02/04/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110345708002	02/09/2011 17:33	John P Hook	1

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Sample Description: **SL-182-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110345708002	02/04/2011 11:37	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06126	Barium	SW-846 6020	1	110341026001D	02/11/2011 22:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06131	Chromium	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06133	Copper	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06135	Lead	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110341026001C	02/11/2011 22:26	David K Beck	2
06139	Nickel	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06141	Selenium	SW-846 6020	1	110341026001B	02/11/2011 22:26	David K Beck	2
06142	Silver	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06145	Thallium	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
06149	Zinc	SW-846 6020	1	110341026001A	02/11/2011 22:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	110345711001	02/04/2011 08:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110341026001	02/03/2011 20:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110345711001	02/03/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 12:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11046046201A	02/16/2011 12:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201B	02/18/2011 03:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11040243201A	02/11/2011 14:43	Ashley M Adams	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	11041102201A	02/10/2011 18:30	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11041102201A	02/10/2011 15:15	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-182-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197572
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-182-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	170	7.1	8.5		0.93
06192	Benzene	71-43-2	21	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	17	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	22	0.35	4.3		0.93
06192	Bromodichloromethane	75-27-4	20	0.09	4.3		0.93
06192	Bromoform	75-25-2	20	0.43	4.3		0.93
06192	Bromomethane	74-83-9	17	0.27	4.3		0.93
06192	2-Butanone	78-93-3	140	1.3	8.5		0.93
06192	n-Butylbenzene	104-51-8	16	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	16	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	16	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	23	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	20	0.12	4.3		0.93
06192	Chloroethane	75-00-3	17	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	15	0.32	4.3		0.93
06192	Chloroform	67-66-3	22	0.13	4.3		0.93
06192	Chloromethane	74-87-3	16	0.35	4.3		0.93
06192	2-Chlorotoluene	95-49-8	17	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	18	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	16	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.75	4.3		0.93
06192	Dibromochloromethane	124-48-1	22	0.21	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	21	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	19	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	17	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	18	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	11	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	24	0.42	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	22	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	21	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	23	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	20	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	18	0.06	4.3		0.93
06192	Freon 113	76-13-1	26	0.12	4.3		0.93
06192	Freon 133a	75-88-7	18	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	15	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	63	1.7	8.5		0.93
06192	Isopropylbenzene	98-82-8	16	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	16	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.22	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	66	0.42	8.5		0.93
06192	Methylene Chloride	75-09-2	22	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	18	0.07	4.3		0.93

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Sample Description: SL-182-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	19		0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	22		0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	19		0.25	4.3		0.93
06192	Tetrachloroethene	127-18-4	21		0.21	4.3		0.93
06192	Toluene	108-88-3	21		0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	12		0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	23		0.21	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	21		0.29	4.3		0.93
06192	Trichloroethene	79-01-6	20		0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	20		0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	19		0.35	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	16		0.21	4.3		0.93
06192	m+p-Xylene	179601-23-1	39		0.18	4.3		0.93
06192	o-Xylene	95-47-6	16		0.18	4.3		0.93
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110		5.0	15		21.93
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	873		19.0	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		19	190		1
04688	Acenaphthylene	208-96-8	1,700		19	190		1
04688	Aniline	62-53-3	1,300		190	570		1
04688	Anthracene	120-12-7	1,700		19	190		1
04688	Benzidine	92-87-5	3,100	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,500		190	570		1
04688	Benzyl alcohol	100-51-6	1,600		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,700		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190		1
04688	4-Chloroaniline	106-47-8	1,200		76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-182-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroethyl)ether	111-44-4	1,400	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,300	19	190		1
04688	2-Chlorophenol	95-57-8	1,600	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	38	190		1
04688	Chrysene	218-01-9	1,900	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700	19	190		1
04688	Dibenzofuran	132-64-9	1,700	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,300	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,200	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,200	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,600	38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,700	38	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,500	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	19	380		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,800	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,400	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,800	190	570		1
04688	Hexachloroethane	67-72-1	1,100	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190		1
04688	Isophorone	78-59-1	1,500	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,600	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500	19	190		1
04688	2-Methylphenol	95-48-7	1,500	38	190		1
04688	4-Methylphenol	106-44-5	1,700	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,500	19	190		1
04688	2-Nitroaniline	88-74-4	1,700	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	38	190		1
04688	4-Nitroaniline	100-01-6	1,500	76	190		1
04688	Nitrobenzene	98-95-3	1,500	19	190		1
04688	2-Nitrophenol	88-75-5	1,500	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1

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Sample Description: **SL-182-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	570		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33	0.76	1.9		1
10138	Acenaphthylene	208-96-8	32	0.38	1.9		1
10138	Anthracene	120-12-7	32	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	33	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	31	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	33	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	34	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	37	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	31	6.9	21		1
10138	Chrysene	218-01-9	32	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	31	0.76	1.9		1
10138	Diethylphthalate	84-66-2	33	6.9	21		1
10138	Dimethylphthalate	131-11-3	36	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39	6.9	21		1
10138	Fluoranthene	206-44-0	29	0.76	1.9		1
10138	Fluorene	86-73-7	35	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	33	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	30	0.76	1.9		1
10138	Naphthalene	91-20-3	32	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	40	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	28	6.9	21		1
10138	Phenanthrene	85-01-8	33	0.76	1.9		1
10138	Pyrene	129-00-0	32	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.7	0.2	1.0		22.4
Explosives	**SW-846 8330A**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400	46	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-182-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,500		46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,400		46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,500		46	140	10000000	1
10132	HMX	2691-41-0	2,200		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,300		46	140	10000000	1
10132	Nitroglycerin	55-63-0	52,000		910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,400		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,300		91	140	10000000	1
10132	PETN	78-11-5	62,000		910	2,700	10000000	1
10132	RDX	121-82-4	2,200		57	140	10000000	1
10132	Tetryl	479-45-8	1,900		70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	5,400		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	14		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	18		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

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Sample Description: SL-182-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.78	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.4		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.3		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.65	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,400		110	570		1
10501	Isopropanol	67-63-0	2,400		110	570		1
10501	Methanol	67-56-1	2,500		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	150		5.7	14		1
08283	Ethylene glycol	107-21-1	180		5.7	14		1
08283	Propylene glycol	57-55-6	180		5.7	14		1
The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.								
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	J	1.6	4.0		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	4.0		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,100		5.69	22.6		1
07914	Boron	7440-42-8	205		1.01	5.65		1
01650	Calcium	7440-70-2	3,620		6.93	22.6		1
01654	Iron	7439-89-6	26,700		5.32	22.6		1
01656	Lithium	7439-93-2	138		0.25	2.3		1
01657	Magnesium	7439-95-4	5,520		2.87	11.3		1
06958	Manganese	7439-96-5	650		0.0882	0.565		1
10145	Phosphorus	7723-14-0	233		0.633	11.3		1
01662	Potassium	7440-09-7	3,170		20.3	56.5		1
01667	Sodium	7440-23-5	1,240		42.2	113		1
07968	Strontium	7440-24-6	132		0.0701	0.565		1
06969	Tin	7440-31-5	398		1.13	11.3		1
06970	Titanium	7440-32-6	1,540		0.429	1.13		1
10146	Zirconium	7440-67-7	111		0.949	5.65		1

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Sample Description: SL-182-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.803	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.5	0.0878	0.439		2
06126	Barium	7440-39-3	139	0.119	0.439		2
06127	Beryllium	7440-41-7	1.74	0.0176	0.110		2
06128	Cadmium	7440-43-9	1.25	0.0439	0.110		2
06131	Chromium	7440-47-3	35.9	0.132	0.439		2
06132	Cobalt	7440-48-4	54.2	0.0220	0.110		2
06133	Copper	7440-50-8	20.0	0.0724	0.439		2
06135	Lead	7439-92-1	9.78	0.0114	0.220		2
06138	Molybdenum	7439-98-7	11.1	0.0549	0.110		2
06139	Nickel	7440-02-0	28.2	0.110	0.439		2
06141	Selenium	7782-49-2	2.18	0.0439	0.439		2
06142	Silver	7440-22-4	11.1	0.0132	0.110		2
06145	Thallium	7440-28-0	0.737	0.0329	0.110		2
06148	Vanadium	7440-62-2	60.1	0.0241	0.110		2
06149	Zinc	7440-66-6	66.5	0.615	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177	0.0031	0.109		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-182-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011	02:38	Laura M Krieger	0.93
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011	03:23	Laura M Krieger	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110351AA	02/04/2011	14:20	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011	13:40	Christopher M Klumpp	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-182-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 13:38	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11035SLD026	02/11/2011 20:02	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 00:44	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 13:42	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11035SLD026	02/05/2011 09:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34A	02/04/2011 21:51	Marie D John	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201103423627	02/03/2011 13:37	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110370014A	02/12/2011 00:09	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110360004A	02/07/2011 19:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 22:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110360004A	02/06/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110370014A	02/07/2011 12:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110350001A	02/04/2011 15:03	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110350025A	02/04/2011 20:32	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110420003A	02/11/2011 15:09	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110350011A	02/07/2011 21:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110350001A	02/04/2011 04:50	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	110350011A	02/04/2011 17:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110420003A	02/11/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110350025A	02/04/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110345708002	02/09/2011 17:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197573
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110345708002	02/04/2011 11:41	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06126	Barium	SW-846 6020	1	110341026001D	02/11/2011 22:30	David K Beck	2
06127	Beryllium	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06131	Chromium	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06133	Copper	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06135	Lead	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110341026001C	02/11/2011 22:30	David K Beck	2
06139	Nickel	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06141	Selenium	SW-846 6020	1	110341026001B	02/11/2011 22:30	David K Beck	2
06142	Silver	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06145	Thallium	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
06149	Zinc	SW-846 6020	1	110341026001A	02/11/2011 22:30	David K Beck	2
00159	Mercury	SW-846 7471A	1	110345711001	02/04/2011 08:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110341026001	02/03/2011 20:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110345711001	02/03/2011 22:30	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: SL-182-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197574
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,200		5.63	22.4		1
07914	Boron	7440-42-8	0.996	U	0.996	5.60		1
01650	Calcium	7440-70-2	3,320		6.86	22.4		1
01654	Iron	7439-89-6	27,800		5.27	22.4		1
01656	Lithium	7439-93-2	29.9		0.25	2.2		1
01657	Magnesium	7439-95-4	5,350		2.84	11.2		1
06958	Manganese	7439-96-5	553		0.0873	0.560		1
10145	Phosphorus	7723-14-0	132		0.627	11.2		1
01662	Potassium	7440-09-7	1,720		20.1	56.0		1
01667	Sodium	7440-23-5	177		41.7	112		1
07968	Strontium	7440-24-6	30.3		0.0694	0.560		1
06969	Tin	7440-31-5	2.99	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,310		0.425	1.12		1
10146	Zirconium	7440-67-7	4.54	J	0.940	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.29		0.0904	0.452		2
06126	Barium	7440-39-3	131		0.122	0.452		2
06127	Beryllium	7440-41-7	0.929		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0685	J	0.0452	0.113		2
06131	Chromium	7440-47-3	25.0		0.136	0.452		2
06132	Cobalt	7440-48-4	6.94		0.0226	0.113		2
06133	Copper	7440-50-8	9.51		0.0746	0.452		2
06135	Lead	7439-92-1	7.20		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.357		0.0565	0.113		2
06139	Nickel	7440-02-0	18.6		0.113	0.452		2
06141	Selenium	7782-49-2	0.0588	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0483	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.276		0.0339	0.113		2
06148	Vanadium	7440-62-2	45.4		0.0249	0.113		2
06149	Zinc	7440-66-6	56.0		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0063	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

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Sample Description: SL-182-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197574
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	463		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110345708002	02/09/2011 17:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110345708002	02/04/2011 11:32	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06126	Barium	SW-846 6020	1	110341026001D	02/11/2011 22:23	David K Beck	2

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Analysis Report

Sample Description: SL-182-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197574
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL182 SDG#: DE073-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06131	Chromium	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06133	Copper	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06135	Lead	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110341026001C	02/11/2011 22:23	David K Beck	2
06139	Nickel	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06141	Selenium	SW-846 6020	1	110341026001B	02/11/2011 22:23	David K Beck	2
06142	Silver	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06145	Thallium	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
06149	Zinc	SW-846 6020	1	110341026001A	02/11/2011 22:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	110345711001	02/04/2011 08:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110341026001	02/03/2011 20:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110345711001	02/03/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 11:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11046046201A	02/16/2011 11:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201B	02/18/2011 02:38	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/15/2011 00:21	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11041102201A	02/10/2011 18:29	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11041102201A	02/10/2011 15:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11035182101B	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402B	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: SL-204-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.38	J	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.9
06192	Methylene Chloride	75-09-2	0.44	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-204-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	1.3	J	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1

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Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.39
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	1,100		46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1

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Sample Description: SL-204-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	3.7	J	2.3	6.9		5
10199	EFH (C21-C30)	n.a.	31		2.3	6.9		5
10199	EFH (C30 - C40)	n.a.	70		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.1	U	8.1	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. The sample was injected numerous times. Each time the responses for various							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		5.79	23.0		1
07914	Boron	7440-42-8	1.02	U	1.02	5.75		1
01650	Calcium	7440-70-2	3,120		7.05	23.0		1
01654	Iron	7439-89-6	22,400		5.42	23.0		1
01656	Lithium	7439-93-2	27.3		0.25	2.3		1
01657	Magnesium	7439-95-4	4,310		2.92	11.5		1
06958	Manganese	7439-96-5	187		0.0898	0.575		1
10145	Phosphorus	7723-14-0	125		0.644	11.5		1
01662	Potassium	7440-09-7	1,440		20.7	57.5		1
01667	Sodium	7440-23-5	100	J	42.9	115		1
07968	Strontium	7440-24-6	24.0		0.0713	0.575		1
06969	Tin	7440-31-5	3.05	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,170		0.437	1.15		1
10146	Zirconium	7440-67-7	3.69	J	0.967	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.111	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.02		0.0921	0.460		2
06126	Barium	7440-39-3	108		0.124	0.460		2
06127	Beryllium	7440-41-7	0.768		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.149		0.0460	0.115		2
06131	Chromium	7440-47-3	22.0		0.138	0.460		2
06132	Cobalt	7440-48-4	5.03		0.0230	0.115		2
06133	Copper	7440-50-8	8.69		0.0759	0.460		2
06135	Lead	7439-92-1	5.78		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.206		0.0575	0.115		2
06139	Nickel	7440-02-0	12.5		0.115	0.460		2
06141	Selenium	7782-49-2	0.0615	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0360	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.219		0.0345	0.115		2
06148	Vanadium	7440-62-2	39.6		0.0253	0.115		2
06149	Zinc	7440-66-6	44.2		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.4		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	471		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.51		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-204-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110341AA	02/04/2011	03:46	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011	16:41	Jason M Long	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011	13:49	Christopher M Klumpp	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-204-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 13:45	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11035SLD026	02/11/2011 20:36	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11035SLB026	02/09/2011 05:23	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11035SLC026	02/07/2011 22:52	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11035SLD026	02/05/2011 09:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11035SLC026	02/04/2011 17:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11035SLB026	02/04/2011 16:20	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34A	02/04/2011 22:28	Marie D John	20.39
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201103423627	02/03/2011 13:44	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110370014A	02/12/2011 00:52	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110360004A	02/07/2011 19:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350005A	02/08/2011 23:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350005A	02/04/2011 13:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110360004A	02/06/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110370014A	02/07/2011 12:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110350001A	02/04/2011 15:28	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110350025A	02/04/2011 21:01	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110420003A	02/11/2011 19:32	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110350011A	02/07/2011 22:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110350001A	02/04/2011 04:50	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	110350011A	02/04/2011 17:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110420003A	02/11/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110350025A	02/04/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110345708002	02/09/2011 17:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197575
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE073-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110345708002	02/04/2011 12:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06126	Barium	SW-846 6020	1	110341026001D	02/11/2011 22:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06131	Chromium	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06133	Copper	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06135	Lead	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110341026001C	02/11/2011 22:39	David K Beck	2
06139	Nickel	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06141	Selenium	SW-846 6020	1	110341026001B	02/11/2011 22:39	David K Beck	2
06142	Silver	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06145	Thallium	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
06149	Zinc	SW-846 6020	1	110341026001A	02/11/2011 22:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	110345711001	02/04/2011 08:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110345708002	02/03/2011 20:14	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110341026001	02/03/2011 20:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110345711001	02/03/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 12:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11046046201A	02/16/2011 12:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042042201B	02/18/2011 04:19	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11040243201A	02/15/2011 00:33	James S Mathiot	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11041102201A	02/10/2011 19:39	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042042201B	02/11/2011 14:05	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11041102201A	02/10/2011 15:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11035182101B	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402B	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11040243201A	02/09/2011 09:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-013111 Water
SSFL Area IV Collocated Soil Sampling
TB-013111

LLI Sample # WW 6197576
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB131 SDG#: DE073-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-013111 Water**
SSFL Area IV Collocated Soil Sampling
TB-013111

LLI Sample # WW 6197576
LLI Group # 1231532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB131 SDG#: DE073-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110351AA	02/04/2011	12:51	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110341AA	02/03/2011	13:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110341AA	02/03/2011	13:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110351AA	02/04/2011	12:51	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11038D20A	02/08/2011	13:33	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11038D20A	02/08/2011	13:33	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
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Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110341AA	Sample number(s): 6197570-6197573,6197575									
Acetone	6.7	U	6.7	8.0	ug/kg	119		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	97		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	82		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	100		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	101		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	82		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	99		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	90		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	83		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	78		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	107		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	77		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	77		43-146		
Chloroform	0.12	J	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	70		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	85		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	84		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	106		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	92		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	87		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	89		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	58		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	103		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	95		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	99		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	106		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	94		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	79*		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	92		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	86		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	68		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	88		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	88		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	69		61-134		
Methylene Chloride	0.82	J	0.24	4.0	ug/kg	100		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	91		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	107		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	91		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.13	J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	76		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	66*		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	93		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	94		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	86		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	86		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	76		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	83		80-120		
Batch number: E110341AA	Sample number(s): 6197576									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	108	110	60-132	2	30
Batch number: E110351AA	Sample number(s): 6197570-6197573									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	100	107	70-130	7	30
Batch number: E110352AA	Sample number(s): 6197575									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	103	107	70-130	4	30
Batch number: Y110351AA	Sample number(s): 6197576									
Acetone	6	U	6.	20	ug/l	171	189	49-234	10	30
Benzene	0.5	U	0.5	5	ug/l	98	98	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	92	96	80-120	5	30
Bromoform	1	U	1.	5	ug/l	92	91	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	102	116	44-120	13	30
2-Butanone	3	U	3.	10	ug/l	118	123	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	88	98	74-120	11	30
sec-Butylbenzene	1	U	1.	5	ug/l	103	104	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	93	101	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	98	97	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	99	117	49-129	16	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	95	96	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	97	100	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	101	120	60-129	17	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	102	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	101	98	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	83	80	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	85	98	66-120	15	30
Dibromochloromethane	1	U	1.	5	ug/l	92	93	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	96	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	95	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	85	93	80-120	9	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	109	47-120	16	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	96	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	93	100	70-130	7	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	106	74-123	10	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	99	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	92	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	96	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	98	77-124	8	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	99	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	89	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	88	92	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	97	79-120	0	30
Freon 113	2	U	2.	10	ug/l	99	109	69-128	10	30
Freon 133a	2	U	2.	5	ug/l	93	88	77-120	6	30
Hexachlorobutadiene	2	U	2.	5	ug/l	81	94	58-120	14	30
2-Hexanone	3	U	3.	10	ug/l	104	110	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	96	97	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	102	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	97	76-120	4	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	88	90	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	99	108	80-120	9	30
n-Propylbenzene	1	U	1.	5	ug/l	103	102	80-120	0	30
Styrene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	97	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	97	97	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	98	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	100	99	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	98	65-120	13	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	96	67-120	12	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	81	89	75-127	9	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	94	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	97	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	115	64-129	14	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	99	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	102	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	87	101	65-125	15	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30

Batch number: 11035SLB026	Sample number(s): 6197570-6197573,6197575							
Acenaphthene	17	U	17.	170	ug/kg	90		76-111
Acenaphthylene	17	U	17.	170	ug/kg	92		75-122
Aniline	170 U		170.	500	ug/kg	66		34-94
Anthracene	17	U	17.	170	ug/kg	94		76-112
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121
Benzo(a)anthracene	17	U	17.	170	ug/kg	100		73-112
Benzo(a)pyrene	17	U	17.	170	ug/kg	95		69-122
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	92		61-127
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	90		65-122
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	98		67-125
Benzoic acid	170 U		170.	500	ug/kg	87		62-113
Benzyl alcohol	170		170.	500	ug/kg	96		68-111

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	96		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	93		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	37		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	17	U	17.	170	ug/kg	100		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	91		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	92		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	70		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	93		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	67		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	90		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	90		64-119		
Isophorone	17	U	17.	170	ug/kg	87		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
Naphthalene	17	U	17.	170	ug/kg	88		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	87		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	87		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	93		67-141		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	97		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	67		51-117		
Phenanthrene	17	U	17.	170	ug/kg	92		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	92		78-111		
Batch number: 11035SLC026	Sample number(s): 6197570-6197573,6197575									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	90		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	87		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	88		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	91		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	96		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	90		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	87		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	91		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	115		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	86		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	86		56-121		
Batch number: 11035SLD026	Sample number(s): 6197570-6197573,6197575									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	101		70-130		
Batch number: 11035A34A	Sample number(s): 6197570-6197573,6197575									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	69	67-119	1	30
Batch number: 11038D20A	Sample number(s): 6197576									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110370014A	Sample number(s): 6197570-6197573,6197575									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	109		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	105		54-134		
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	105	107	54-134	2	30
1,3-Dinitrobenzene	77	J	40.	120	ug/kg	120		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100	U	100.	300	ug/kg	98		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	103		80-120		
Nitroglycerin	800		800.	2,400	ug/kg	89		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	80 U		80.	120	ug/kg	105		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80 U		80.	120	ug/kg	103		80-120		
PETN	800 U		800.	2,400	ug/kg	112		80-120		
RDX	50 U		50.	120	ug/kg	109		75-131		
Tetryl	61 U		61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40 U		40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40 U		40.	120	ug/kg	107		80-120		
Batch number: 110360004A	Sample number(s): 6197570-6197573,6197575									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 110350005A	Sample number(s): 6197570-6197573,6197575									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	64*	67*	75-125	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	125		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110350001A	Sample number(s): 6197570-6197573,6197575									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	102		66-113		
Batch number: 110350025A	Sample number(s): 6197570-6197573,6197575									
Ethanol	100 U		100.	500	ug/kg	95		75-112		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	97		75-134		
Batch number: 110420003A	Sample number(s): 6197570-6197573,6197575									
Diethylene glycol	5.0	U	5.0	13	mg/kg	93		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		
Batch number: 110350011A	Sample number(s): 6197570-6197573,6197575									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	103		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
Batch number: 110341026001A	Sample number(s): 6197570-6197575									
Antimony	0.0600	U	0.0600	0.200	mg/kg	117		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0160 U	0.0160	0.100	mg/kg	107		82-118		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	103		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	104		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	111		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	114		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	106		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	107		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	103		78-122		
Batch number: 110341026001B	Sample number(s): 6197570-6197575								
Selenium	0.0400 U	0.0400	0.400	mg/kg	111		79-122		
Batch number: 110341026001C	Sample number(s): 6197570-6197575								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 110341026001D	Sample number(s): 6197570-6197575								
Barium	0.108 U	0.108	0.400	mg/kg	105		79-121		
Batch number: 110345708002	Sample number(s): 6197570-6197575								
Aluminum	5.03 U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	90		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	96		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	99		81-119		
Phosphorus	0.580 J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3 U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	102		79-121		
Tin	1.42 J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	101		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	100		80-120		
Batch number: 110345711001	Sample number(s): 6197570-6197575								
Mercury	0.0028 U	0.0028	0.0980	mg/kg	93		88-123		
Batch number: 11040243201A	Sample number(s): 6197570-6197572,6197574-6197575								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11041102201A	Sample number(s): 6197570-6197572,6197574-6197575								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11042042201B	Sample number(s): 6197570-6197572,6197574-6197575								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11046046201A	Sample number(s): 6197570-6197572,6197574-6197575								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11035039402A	Sample number(s): 6197570								
22a pH by 9045C					101		95-105		
Batch number: 11035039402B	Sample number(s): 6197571,6197574-6197575								
22a pH by 9045C					101		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11035182101B	Sample number(s): 6197570-6197571,6197574-6197575								
32a OR Potential					99		98-102		
Batch number: 11052162401A	Sample number(s): 6197570-6197575								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110341AA	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
Acetone	106	105	15-210	6	30				
Benzene	98	98	55-143	8	30				
Bromobenzene	76	81	43-139	14	30				
Bromochloromethane	102	101	60-137	6	30				
Bromodichloromethane	95	94	53-136	5	30				
Bromoform	94	95	38-124	7	30				
Bromomethane	88	81	42-168	2	30				
2-Butanone	83	87	37-163	11	30				
n-Butylbenzene	66	77	30-146	23	30				
sec-Butylbenzene	64	75	33-157	22	30				
tert-Butylbenzene	63	73	41-152	21	30				
Carbon Tetrachloride	109	109	45-153	7	30				
Chlorobenzene	93	95	49-135	9	30				
Chloroethane	83	78	39-152	1	30				
2-Chloroethyl Vinyl Ether	70	71	32-139	7	30				
Chloroform	104	102	61-142	5	30				
Chloromethane	84	75	51-163	4	30				
2-Chlorotoluene	75	81	42-146	15	30				
4-Chlorotoluene	75	82	39-145	16	30				
Chlorotrifluoroethene	76	82	70-130	1	30				
1,2-Dibromo-3-chloropropane	76	78	30-139	10	30				
Dibromochloromethane	104	101	51-128	5	30				
1,2-Dibromoethane	93	94	54-129	8	30				
Dibromomethane	95	96	57-130	8	30				
1,2-Dichlorobenzene	83	87	36-133	13	30				
1,3-Dichlorobenzene	75	82	34-134	16	30				
1,4-Dichlorobenzene	78	84	35-136	15	30				
Dichlorodifluoromethane	63	53	26-151	10	30				
1,1-Dichloroethane	104	104	63-142	7	30				
1,2-Dichloroethane	101	99	68-131	5	30				
1,1-Dichloroethene	116	115	61-149	6	30				
cis-1,2-Dichloroethene	96	97	60-136	7	30				
trans-1,2-Dichloroethene	107	101	59-142	1	30				
1,2-Dichloropropane	97	98	62-135	8	30				
1,3-Dichloropropane	94	96	58-129	9	30				
2,2-Dichloropropane	109	109	53-147	7	30				
1,1-Dichloropropene	93	94	54-145	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
cis-1,3-Dichloropropene	76	78	51-131	10	30				
trans-1,3-Dichloropropene	81	86	49-129	12	30				
Ethylbenzene	81	85	44-141	11	30				
Freon 113	121	120	56-156	6	30				
Freon 133a	84	96	70-130	5	30				
Hexachlorobutadiene	59	70	10-155	23	30				
2-Hexanone	56	59	32-160	13	30				
Isopropylbenzene	71	77	38-144	15	30				
p-Isopropyltoluene	65	77	29-152	22	30				
Methyl Tertiary Butyl Ether	93	90	55-129	4	30				
4-Methyl-2-pentanone	60	62	46-139	11	30				
Methylene Chloride	100	99	61-141	6	30				
n-Propylbenzene	74	84	39-157	19	30				
Styrene	83	87	35-134	12	30				
1,1,1,2-Tetrachloroethane	103	103	52-130	7	30				
1,1,2,2-Tetrachloroethane	84	87	40-152	10	30				
Tetrachloroethene	94	96	42-149	10	30				
Toluene	94	96	50-146	10	30				
1,2,3-Trichlorobenzene	64	68	10-140	13	30				
1,2,4-Trichlorobenzene	54	59	10-136	15	30				
1,1,1-Trichloroethane	106	106	64-142	6	30				
1,1,2-Trichloroethane	99	99	54-139	7	30				
Trichloroethene	91	93	53-144	9	30				
Trichlorofluoromethane	101	95	47-163	2	30				
1,2,3-Trichloropropane	85	90	45-154	13	30				
1,2,4-Trimethylbenzene	71	79	37-149	18	30				
1,3,5-Trimethylbenzene	71	80	38-150	19	30				
Vinyl Chloride	83	77	50-154	0	30				
m+p-Xylene	89	92	44-137	10	30				
o-Xylene	74	77	42-137	11	30				
Batch number: E110351AA	Sample number(s): 6197570-6197573 UNSPK: 6197571								
1,4-Dioxane	79	88	70-130	6	30				
Batch number: E110352AA	Sample number(s): 6197575 UNSPK: P197581								
1,4-Dioxane	80	88	70-130	12	30				
Batch number: 11035SLB026	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
Acenaphthene	83	84	75-115	2	30				
Acenaphthylene	88	88	81-110	0	30				
Aniline	60	67	35-95	12	30				
Anthracene	91	90	75-115	1	30				
Benzidine	32*	33*	35-141	3	30				
Benzo(a)anthracene	95	96	65-122	2	30				
Benzo(a)pyrene	91	93	57-126	2	30				
Benzo(b)fluoranthene	98	100	59-125	2	30				
Benzo(g,h,i)perylene	87	88	59-127	2	30				
Benzo(k)fluoranthene	88	89	56-132	1	30				
Benzoic acid	73	79	10-173	7	30				
Benzyl alcohol	87	85	67-115	2	30				
4-Bromophenyl-phenylether	90	92	67-129	2	30				
Butylbenzylphthalate	89	92	73-134	3	30				
Di-n-butylphthalate	88	87	67-123	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	91	91	64-120	1	30				
4-Chloro-3-methylphenol	86	89	76-110	4	30				
4-Chloroaniline	44	63	23-95	35*	30				
bis(2-Chloroethoxy)methane	81	82	75-104	0	30				
bis(2-Chloroethyl)ether	77	74	60-116	5	30				
bis(2-Chloroisopropyl)ether	75	73	55-142	3	30				
2-Chloronaphthalene	70	69	50-141	1	30				
2-Chlorophenol	84	82	73-121	3	30				
4-Chlorophenyl-phenylether	87	89	80-109	2	30				
Chrysene	96	98	62-128	2	30				
Dibenz(a,h)anthracene	87	88	65-125	2	30				
Dibenzofuran	87	88	71-112	1	30				
1,2-Dichlorobenzene	70	67	66-108	5	30				
1,3-Dichlorobenzene	63	63	63-109	1	30				
1,4-Dichlorobenzene	66*	65*	70-100	2	30				
3,3'-Dichlorobenzidine	55	72	16-119	27	30				
2,4-Dichlorophenol	88	88	78-117	0	30				
Diethylphthalate	85	88	66-118	4	30				
2,4-Dimethylphenol	86	86	78-110	0	30				
3,5-Dimethylphenol	94	91	70-130	3	30				
Dimethylphthalate	87	90	64-118	4	30				
4,6-Dinitro-2-methylphenol	74	79	24-116	7	30				
2,4-Dinitrophenol	61	66	20-143	8	30				
2,4-Dinitrotoluene	89	91	73-113	3	30				
2,6-Dinitrotoluene	89	90	69-123	1	30				
1,2-Diphenylhydrazine	89	89	71-129	0	30				
bis(2-Ethylhexyl)phthalate	89	90	63-122	1	30				
Fluoranthene	95	95	73-112	0	30				
Fluorene	87	88	77-111	2	30				
Hexachlorobenzene	94	95	77-114	1	30				
Hexachlorobutadiene	75	75	62-120	1	30				
Hexachlorocyclopentadiene	71	73	10-153	3	30				
Hexachloroethane	60	60	57-109	0	30				
Indeno(1,2,3-cd)pyrene	88	89	61-126	1	30				
Isophorone	82	81	73-102	1	30				
1-Methylnaphthalene	83	83	73-112	0	30				
2-Methylnaphthalene	78	77	76-114	2	30				
2-Methylphenol	85	81	75-111	5	30				
4-Methylphenol	88	88	71-111	0	30				
Naphthalene	78	78	72-116	0	30				
2-Nitroaniline	86	88	67-125	2	30				
3-Nitroaniline	84	88	59-122	4	30				
4-Nitroaniline	73	78	52-112	6	30				
Nitrobenzene	79	81	72-106	2	30				
2-Nitrophenol	81	79	74-115	2	30				
4-Nitrophenol	83	86	54-113	3	30				
N-Nitroso-di-n-propylamine	78	78	60-116	0	30				
N-Nitrosodimethylamine	81	76	47-116	7	30				
N-Nitrosodiphenylamine	90	90	86-145	0	30				
Di-n-octylphthalate	90	90	56-126	1	30				
Pentachlorophenol	70	71	28-127	2	30				
Phenanthrene	90	90	65-125	0	30				
Phenol	86	84	58-126	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Pyrene	95	98	74-126	4	30				
1,2,4-Trichlorobenzene	78	78	72-115	0	30				
2,4,5-Trichlorophenol	85	89	78-109	5	30				
2,4,6-Trichlorophenol	86	90	77-115	4	30				
Batch number: 11035SLC026	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
Acenaphthene	84	86	63-105	2	30				
Acenaphthylene	81	84	67-114	4	30				
Anthracene	89	85	60-122	4	30				
Benzo(a)anthracene	91	86	59-128	6	30				
Benzo(a)pyrene	85	82	45-138	4	30				
Benzo(b)fluoranthene	89	86	43-155	2	30				
Benzo(g,h,i)perylene	87	83	33-141	5	30				
Benzo(k)fluoranthene	93	88	42-144	6	30				
Butylbenzylphthalate	97	96	57-173	1	30				
Di-n-butylphthalate	99	81	65-148	20	30				
Chrysene	90	85	48-134	6	30				
Dibenz(a,h)anthracene	84	81	22-133	4	30				
Diethylphthalate	87	87	70-136	0	30				
Dimethylphthalate	92	94	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	89	83	39-167	6	30				
Fluoranthene	97	77	26-166	23	30				
Fluorene	90	92	66-122	1	30				
Indeno(1,2,3-cd)pyrene	84	80	21-143	4	30				
1-Methylnaphthalene	82	86	72-123	5	30				
2-Methylnaphthalene	79	80	64-103	1	30				
Naphthalene	88	84	61-102	4	30				
N-Nitrosodimethylamine	79	105	48-113	28	30				
Di-n-octylphthalate	92	73	40-192	23	30				
Phenanthrene	90	86	12-165	5	30				
Pyrene	84	85	15-153	1	30				
Batch number: 11035SLD026	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
N-Nitrosodimethylamine	89	92	70-130	4	30				
Batch number: 11035A34A	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
9a TPH by EPA 8015B Gas C5-C12	60	60	39-118	6	30				
Batch number: 110370014A	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
4-Amino-2,6-Dinitrotoluene	107	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	107	80-137	2	50				
1,3-Dinitrobenzene	88	59	38-166	24	50				
2,4-Dinitrotoluene	102	103	80-131	1	50				
2,6-Dinitrotoluene	108	108	80-127	0	50				
HMX	95	97	63-128	1	50				
Nitrobenzene	99	100	80-125	1	50				
Nitroglycerin	94	95	80-120	1	50				
2-Nitrotoluene	102	103	80-122	0	50				
3-Nitrotoluene	103	103	72-119	0	50				
4-Nitrotoluene	101	101	80-125	0	50				
PETN	113	114	80-121	1	50				
RDX	96	97	75-129	2	50				
Tetryl	84	85	55-174	1	50				

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Quality Control Summary

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Reported: 02/23/11 at 02:58 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3,5-Trinitrobenzene	101	103	82-126	2	50				
2,4,6-Trinitrotoluene	103	104	82-130	1	50				
Batch number: 110360004A	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
17a Formaldehyde by 8315A	93	94	80-120	2	50				
Batch number: 110350005A	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
PCB-1016	92	71	29-146	26	50				
PCB-1260	114	94	39-149	19	50				
Batch number: 110350001A	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
EFH (C12-C14)	79	81	49-123	3	20				
EFH (C15-C20)	94	101	49-123	7	20				
EFH (C21-C30)	107	108	49-123	1	20				
EFH (C30 - C40)	159*	116	49-123	31*	20				
EFH (C8-C11)	64	68	49-123	5	20				
Batch number: 110350025A	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
Ethanol	82	84	24-143	3	20				
Isopropanol	81	83	75-125	2	20				
Methanol	86	89	45-136	4	20				
Batch number: 110420003A	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
Diethylene glycol	49*	63	59-109	25*	20				
Ethylene glycol	74	79	63-107	7	20				
Propylene glycol	74	79	63-107	6	20				
Batch number: 110350011A	Sample number(s): 6197570-6197573,6197575 UNSPK: 6197571								
m-Terphenyl	89	89	75-125	1	20				
o-Terphenyl	89	87	75-125	1	20				
p-Terphenyl	82	81	75-125	1	20				
Batch number: 110341026001A	Sample number(s): 6197570-6197575 UNSPK: 6197571 BKG: 6197571								
Antimony	55*	49*	75-125	13	20	0.137 J	0.105 J	26* (1)	20
Arsenic	116	108	75-125	3	20	7.10	7.26	2	20
Beryllium	91	88	75-125	3	20	0.847	0.813	4	20
Cadmium	106	105	75-125	5	20	0.0876 J	0.0600 J	37* (1)	20
Chromium	95	89	75-125	3	20	22.9	21.9	4	20
Cobalt	94	85	75-125	13	20	6.76	6.08	11	20
Copper	93	93	75-125	2	20	8.56	8.33	3	20
Lead	117	37*	75-125	25*	20	7.50	6.30	17	20
Nickel	94	84	75-125	5	20	16.6	16.3	2	20
Silver	101	101	75-125	4	20	0.0327 J	0.0423 J	26* (1)	20
Thallium	107	108	75-125	2	20	0.231	0.242	5 (1)	20
Vanadium	100 (2)	106 (2)	75-125	0	20	42.4	39.7	6	20
Zinc	98 (2)	99 (2)	75-125	0	20	48.7	49.1	1	20
Batch number: 110341026001B	Sample number(s): 6197570-6197575 UNSPK: 6197571 BKG: 6197571								
Selenium	97	95	75-125	5	20	0.0743 J	0.0515 J	36* (1)	20
Batch number: 110341026001C	Sample number(s): 6197570-6197575 UNSPK: 6197571 BKG: 6197571								
Molybdenum	97	98	75-125	3	20	0.310	0.313	1 (1)	20

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Quality Control Summary

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Reported: 02/23/11 at 02:58 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110341026001D	Sample number(s): 6197570-6197575 UNSPK: 6197571 BKG: 6197571								
Barium	124 (2)	56 (2)	75-125	6	20	116	115	1	20
Batch number: 110345708002	Sample number(s): 6197570-6197575 UNSPK: 6197571 BKG: 6197571								
Aluminum	1526 (2)	1286 (2)	75-125	2	20	21,200	22,000	4	20
Boron	92	91	84-115	2	20	0.890 U	0.873 U	0 (1)	20
Calcium	91 (2)	88 (2)	75-125	0	20	2,820	2,910	3	20
Iron	-1958 (2)	-2562 (2)	75-125	2	20	25,900	24,300	6	20
Lithium	97	95	82-114	2	20	26.4	26.2	1	20
Magnesium	-6 (2)	-12 (2)	75-125	0	20	4,860	4,690	4	20
Manganese	-632 (2)	-633 (2)	75-125	0	20	882	484	58*	20
Phosphorus	82	79	75-125	2	20	126	116	8	20
Potassium	122	119	75-125	1	20	1,590	1,500	6	20
Sodium	95	94	75-125	2	20	155	155	0 (1)	20
Strontium	91	90	75-115	2	20	26.5	26.5	0	20
Tin	88	87	80-110	2	20	2.62 J	2.62 J	0 (1)	20
Titanium	209 (2)	192 (2)	75-125	1	20	1,160	1,150	1	20
Zirconium	94	94	75-125	1	20	3.73 J	3.98 J	6 (1)	20
Batch number: 110345711001	Sample number(s): 6197570-6197575 UNSPK: 6197571 BKG: 6197571								
Mercury	100	98	65-135	2	20	0.0027 U	0.0055 J	200* (1)	20
Batch number: 11040243201A	Sample number(s): 6197570-6197572,6197574-6197575 UNSPK: 6197571 BKG: 6197571								
3a Cr VI by EPA 7199	91		75-125			0.32 J	0.20 U	200* (1)	20
Batch number: 11041102201A	Sample number(s): 6197570-6197572,6197574-6197575 UNSPK: 6197571 BKG: 6197571								
21a Cyanide by 9012B	109		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11042042201B	Sample number(s): 6197570-6197572,6197574-6197575 UNSPK: 11042BU BKG: 11042BU								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11046046201A	Sample number(s): 6197570-6197572,6197574-6197575 UNSPK: 6197571 BKG: 6197571								
11a Anions by 300.0 - Fluoride	58*		80-120			2.1	2.1	3 (1)	20
11a Anions by 300.0 - Nitrate	106		80-120			1.4 J	1.4 J	3 (1)	20
Batch number: 11035039402A	Sample number(s): 6197570 BKG: P196803								
22a pH by 9045C						6.94	6.94	0	1
Batch number: 11035039402B	Sample number(s): 6197571,6197574-6197575 BKG: 6197571								
22a pH by 9045C						7.07	7.07	0	1
Batch number: 11035182101B	Sample number(s): 6197570-6197571,6197574-6197575 BKG: 6197571								
32a OR Potential						462	463	0	6
Batch number: 11052162401A	Sample number(s): 6197570-6197575 BKG: 6197571								
28a Moisture Content by 160.3						12.4	12.4	0	20
28a Moisture Content by 160.3						12.4	12.4	0	20
28a Moisture Content by 160.3						12.4	12.4	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6197570	119	117	98	86
6197571	116	108	100	79
6197572	106	104	110	106
6197573	103	100	109	103
6197575	116	107	101	81
Blank	117	109	100	83
LCS	104	104	109	106
MS	106	104	110	106
MSD	103	100	109	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110341AA

	Toluene-d8
6197576	96
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110351AA

	Toluene-d8
6197570	96
6197571	96
6197572	96
6197573	95
Blank	96
LCS	96
LCSD	96
MS	96
MSD	95
Limits:	70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110352AA

	Toluene-d8
6197575	95
Blank	96
LCS	96
LCSD	96
MS	95
MSD	95

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Quality Control Summary

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Reported: 02/23/11 at 02:58 PM

Surrogate Quality Control

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6197576	101	98	99	94
Blank	101	101	98	94
LCS	98	100	99	95
LCSD	100	101	100	97
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11035SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6197570	84	87	87	80	84	90
6197571	79	81	85	76	81	84
6197572	84	86	87	80	81	86
6197573	84	85	89	80	84	88
6197575	85	84	85	76	81	92
Blank	88	91	93	86	92	89
LCS	89	91	89	82	84	89
MS	84	86	87	80	81	86
MSD	84	85	89	80	84	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11035SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6197570	104	90	84
6197571	110	84	90
6197572	112	83	86
6197573	86	88	83
6197575	88	82	75
Blank	95	86	90
LCS	96	86	82
MS	112	83	86
MSD	86	88	83
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11035SLD026

	N-Nitrosodimethylamine-d6
6197570	92
6197571	79
6197572	81
6197573	73
6197575	78
Blank	83

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Quality Control Summary

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Reported: 02/23/11 at 02:58 PM

Surrogate Quality Control

LCS	83
MS	81
MSD	73
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11035A34A

	Trifluorotoluene-F
6197570	74
6197571	74
6197572	72
6197573	70
6197575	72
Blank	85
LCS	87
LCSD	86
MS	72
MSD	70
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11038D20A

	Trifluorotoluene-F
6197576	66
Blank	68
LCS	96
LCSD	102
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110350005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6197570	116	185*
6197571	79	113
6197572	95	121*
6197573	81	106
6197575	77	107
Blank	87	115
LCS	79	122*
LCSD	79	108
MS	95	121*
MSD	81	106
Limits:	53-139	45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110360004A

	Butyraldehyde
6197570	105
6197571	98

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Quality Control Summary

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Surrogate Quality Control

6197572	101
6197573	100
6197575	92
Blank	105
LCS	103
MS	101
MSD	100
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110370014A

	2-Nitro-m-xylene
6197570	125
6197571	108
6197572	124
6197573	122
6197575	125
Blank	125
LCS	119
LCSD	123
MS	124
MSD	122
Limits:	80-146

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110350001A

	Chlorobenzene	Orthoterphenyl
6197570	69	72
6197571	72	76
6197572	73	79
6197573	79	87
6197575	77	84
Blank	79	86
LCS	81	89
MS	73	79
MSD	79	87
Limits:	37-125	47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110350011A

	n-Triacontane-d62
6197570	102
6197571	108
6197572	109
6197573	108
6197575	122
Blank	111
LCS	110
MS	109
MSD	108

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231532
Reported: 02/23/11 at 02:58 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110350025A

	Acetone
6197570	79
6197571	80
6197572	77
6197573	79
6197575	78
Blank	93
LCS	92
MS	77
MSD	79

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110420003A

	Tetramethylene glycol
6197570	43
6197571	41
6197572	70
6197573	72
6197575	39
Blank	87
LCS	91
MS	70
MSD	72

Limits: 29-137

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**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 · 1231532 6197570-76

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Ken Hastings, Cindy Ahlf

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	5-Encores									X	X	X											FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	4-Encores									X	X												FIELD DUPLICATE
SL-175-SA5B-SB-4.0-5.0	1.31.2011	1606	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-175-SA5B-SB-4.5	1.31.2011	1602	SOIL	NONE	4-Encores									X	X												
SL-176-SA5B-SB-4.0-5.0	1.31.2011	1504	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-176-SA5B-SB-4.5	1.31.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-177-SA5B-SB-4.0-5.0	1.31.2011	1404	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-177-SA5B-SB-4.5	1.31.2011	1400	SOIL	NONE	4-Encores									X	X												
SL-182-SA5B-SB-4.0-5.0MS	1.31.2011	0937	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-182-SA5B-SB-4.5MS	1.31.2011	0937	SOIL	NONE	15 Encores									X	X	X											MS/MSD
SL-195-SA5B-SB-4.0-5.0MS	1.31.2011	0930	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X															MS/MSD
SL-195-SA5B-SB-4.5MS	1.31.2011	0927	SOIL	NONE	12-Encores									X	X												MS/MSD
SL-197-SA5B-SB-4.0-5.0	1.31.2011	1451	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-197-SA5B-SB-4.5	1.31.2011	1448	SOIL	NONE	4-Encores									X	X												
SL-198-SA5B-SB-4.0-5.0	1.31.2011	1549	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-198-SA5B-SB-4.5	1.31.2011	1544	SOIL	NONE	4-Encores									X	X												
SL-199-SA5B-SB-4.0-5.0	1.31.2011	1243	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-199-SA5B-SB-4.5	1.31.2011	1240	SOIL	NONE	4-Encores									X	X												
SL-200-SA5B-SB-4.0-5.0	1.31.2011	1104	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-200-SA5B-SB-4.5	1.31.2011	1100	SOIL	NONE	4-Encores									X	X												
SL-204-SA5B-SB-4.0-5.0	1.31.2011	1123	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-204-SA5B-SB-4.5	1.31.2011	1119	SOIL	NONE	5-Encores									X	X	X											
TB-013111	1.31.2011	1230	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 1/31/2011 / 17:00 — Received for Laboratory by: (Signature) Lli 2/3/11 945

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1431 9940, ...9950, ...9961

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/03/2011
Group Number: 1231533
SDG: DE074
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP22-SA5B-QC-013111 Soil	6197577
SL-175-SA5B-SB-4.0-5.0 Soil	6197578
SL-176-SA5B-SB-4.0-5.0 Soil	6197579
SL-177-SA5B-SB-4.0-5.0 Soil	6197580
SL-195-SA5B-SB-4.0-5.0 Soil	6197581
SL-195-SA5B-SB-4.0-5.0MS Soil	6197582
SL-195-SA5B-SB-4.0-5.0MSD Soil	6197583
SL-195-SA5B-SB-4.0-5.0DUP Soil	6197584
SL-197-SA5B-SB-4.0-5.0 Soil	6197585
SL-198-SA5B-SB-4.0-5.0 Soil	6197586
SL-199-SA5B-SB-4.0-5.0 Soil	6197587
SL-200-SA5B-SB-4.0-5.0 Soil	6197588

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP22-SA5B-QC-013111 Soil
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197577
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP22 SDG#: DE074-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.1	U	7.1	8.5	0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3	0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5	0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3	0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3	0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3	0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3	0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.94
06192	Ethylbenzene	100-41-4	0.15	J	0.06	4.3	0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5	0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3	0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5	0.94
06192	Methylene Chloride	75-09-2	0.60	J	0.26	4.3	0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3	0.94

*=This limit was used in the evaluation of the final result

Sample Description: DUP22-SA5B-QC-013111 Soil
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197577
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP22 SDG#: DE074-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3	0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3	0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.3	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3	0.94
06192	m+p-Xylene	179601-23-1	0.68	J	0.18	4.3	0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16	23.45
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197577
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP22 SDG#: DE074-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP22-SA5B-QC-013111 Soil
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197577
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP22 SDG#: DE074-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,000		5.62	22.3	1
07914	Boron	7440-42-8	0.994	U	0.994	5.58	1
01650	Calcium	7440-70-2	2,450		6.84	22.3	1
01654	Iron	7439-89-6	24,500		5.26	22.3	1
01656	Lithium	7439-93-2	23.9		0.25	2.2	1
01657	Magnesium	7439-95-4	4,470		2.84	11.2	1
06958	Manganese	7439-96-5	337		0.0871	0.558	1
10145	Phosphorus	7723-14-0	238		0.625	11.2	1
01662	Potassium	7440-09-7	2,470		20.1	55.8	1
01667	Sodium	7440-23-5	117		41.6	112	1
07968	Strontium	7440-24-6	21.5		0.0692	0.558	1
06969	Tin	7440-31-5	2.93	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,300		0.424	1.12	1
10146	Zirconium	7440-67-7	2.83	J	0.938	5.58	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0683	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.04		0.0911	0.456	2
06126	Barium	7440-39-3	94.7		0.123	0.456	2
06127	Beryllium	7440-41-7	0.697		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.0670	J	0.0456	0.114	2
06131	Chromium	7440-47-3	21.1		0.137	0.456	2
06132	Cobalt	7440-48-4	5.99		0.0228	0.114	2
06133	Copper	7440-50-8	7.89		0.0752	0.456	2

*=This limit was used in the evaluation of the final result

Sample Description: DUP22-SA5B-QC-013111 Soil
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197577
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP22 SDG#: DE074-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	6.10	0.0118	0.228	2
06138	Molybdenum	7439-98-7	0.665	0.0569	0.114	2
06139	Nickel	7440-02-0	12.0	0.114	0.456	2
06141	Selenium	7782-49-2	0.155 J	0.0456	0.456	2
06142	Silver	7440-22-4	0.0406 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.299	0.0342	0.114	2
06148	Vanadium	7440-62-2	39.3	0.0251	0.114	2
06149	Zinc	7440-66-6	48.6	0.638	3.42	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	492	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: DUP22-SA5B-QC-013111 Soil
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197577
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP22 SDG#: DE074-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 17:57	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 17:01	Jason M Long	23.45
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 15:06	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 15:06	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 14:18	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/09/2011 13:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/10/2011 22:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 19:47	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:22	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:22	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197577
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP22 SDG#: DE074-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 04:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 16:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 15:12	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182101B	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402B	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-175-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197578
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL175 SDG#: DE074-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5	0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3	0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.3	0.93
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.93
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5	0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3	0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3	0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.93
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3	0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3	0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.93
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.93
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3	0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.3	0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3	0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.93
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5	0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3	0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3	0.93
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5	0.93
06192	Methylene Chloride	75-09-2	0.46	J	0.26	4.3	0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3	0.93

*=This limit was used in the evaluation of the final result

Sample Description: SL-175-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197578
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL175 SDG#: DE074-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3	0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3	0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.3	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3	0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.93
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3	0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3	0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3	0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	23.85
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-175-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197578
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL175 SDG#: DE074-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.9	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-175-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197578
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL175 SDG#: DE074-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		5.70	22.7	1
07914	Boron	7440-42-8	1.01	U	1.01	5.66	1
01650	Calcium	7440-70-2	26,100		6.94	22.7	1
01654	Iron	7439-89-6	23,400		5.34	22.7	1
01656	Lithium	7439-93-2	20.4		0.25	2.3	1
01657	Magnesium	7439-95-4	4,460		2.88	11.3	1
06958	Manganese	7439-96-5	324		0.0884	0.566	1
10145	Phosphorus	7723-14-0	344		0.634	11.3	1
01662	Potassium	7440-09-7	2,150		20.4	56.6	1
01667	Sodium	7440-23-5	150		42.3	113	1
07968	Strontium	7440-24-6	48.9		0.0702	0.566	1
06969	Tin	7440-31-5	2.66	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,160		0.430	1.13	1
10146	Zirconium	7440-67-7	3.93	J	0.952	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0686	U	0.0686	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.98		0.0915	0.458	2
06126	Barium	7440-39-3	112		0.124	0.458	2
06127	Beryllium	7440-41-7	0.414		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.184		0.0458	0.114	2
06131	Chromium	7440-47-3	16.3		0.137	0.458	2
06132	Cobalt	7440-48-4	5.40		0.0229	0.114	2
06133	Copper	7440-50-8	8.05		0.0755	0.458	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-175-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197578
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL175 SDG#: DE074-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.69	0.0119	0.229	2
06138	Molybdenum	7439-98-7	0.343	0.0572	0.114	2
06139	Nickel	7440-02-0	9.05	0.114	0.458	2
06141	Selenium	7782-49-2	0.0772 J	0.0458	0.458	2
06142	Silver	7440-22-4	0.0480 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.154	0.0343	0.114	2
06148	Vanadium	7440-62-2	40.4	0.0252	0.114	2
06149	Zinc	7440-66-6	43.3	0.641	3.43	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0139 J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1	0.92	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.36	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-175-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197578
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL175 SDG#: DE074-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 18:19	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 17:21	Jason M Long	23.85
08390	GC/MS - HL Encore Prep	SW-846 5035	2	201103423630	02/03/2011 17:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:26	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:26	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	3	201103423628	02/03/2011 16:09	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103423627	02/03/2011 14:30	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 14:44	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/09/2011 14:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/10/2011 23:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 19:58	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:25	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:25	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197578
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL175 SDG#: DE074-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 05:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 17:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 15:18	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182101B	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402B	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-176-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197579
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE074-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.0	U	8.0	9.5	1.03
06192	Benzene	71-43-2	0.12	U	0.12	4.8	1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.8	1.03
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8	1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.8	1.03
06192	Bromoform	75-25-2	0.48	U	0.48	4.8	1.03
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8	1.03
06192	2-Butanone	78-93-3	1.5	U	1.5	9.5	1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8	1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8	1.03
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8	1.03
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8	1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8	1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.8	1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8	1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.8	1.03
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8	1.03
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8	1.03
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8	1.03
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0	1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.83	U	0.83	4.8	1.03
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8	1.03
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8	1.03
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8	1.03
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8	1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8	1.03
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8	1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8	1.03
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8	1.03
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8	1.03
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.8	1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8	1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8	1.03
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8	1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.8	1.03
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8	1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.8	1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8	1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8	1.03
06192	Ethylbenzene	100-41-4	0.23	J	0.07	4.8	1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.8	1.03
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0	1.03
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8	1.03
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.5	1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8	1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8	1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8	1.03
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.5	1.03
06192	Methylene Chloride	75-09-2	0.56	J	0.29	4.8	1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8	1.03

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197579
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE074-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8	1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8	1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.8	1.03
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8	1.03
06192	Toluene	108-88-3	0.09	U	0.09	4.8	1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8	1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8	1.03
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8	1.03
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8	1.03
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8	1.03
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8	1.03
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8	1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8	1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8	1.03
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8	1.03
06192	m+p-Xylene	179601-23-1	0.77	J	0.20	4.8	1.03
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8	1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16	22.98
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197579
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE074-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.72	J	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.1	J	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-176-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197579
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE074-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.89	J	0.77	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,500		5.65	22.4	1
07914	Boron	7440-42-8	0.999	U	0.999	5.61	1
01650	Calcium	7440-70-2	4,560		6.88	22.4	1
01654	Iron	7439-89-6	28,100		5.29	22.4	1
01656	Lithium	7439-93-2	36.8		0.25	2.2	1
01657	Magnesium	7439-95-4	4,950		2.85	11.2	1
06958	Manganese	7439-96-5	252		0.0875	0.561	1
10145	Phosphorus	7723-14-0	123		0.629	11.2	1
01662	Potassium	7440-09-7	1,610		20.2	56.1	1
01667	Sodium	7440-23-5	117		41.9	112	1
07968	Strontium	7440-24-6	27.2		0.0696	0.561	1
06969	Tin	7440-31-5	3.32	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,260		0.427	1.12	1
10146	Zirconium	7440-67-7	3.25	J	0.943	5.61	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0680	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.70		0.0907	0.453	2
06126	Barium	7440-39-3	126		0.122	0.453	2
06127	Beryllium	7440-41-7	0.889		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.201		0.0453	0.113	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197579
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE074-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	27.0	0.136	0.453	2
06132	Cobalt	7440-48-4	11.5	0.0227	0.113	2
06133	Copper	7440-50-8	7.90	0.0748	0.453	2
06135	Lead	7439-92-1	8.82	0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.293	0.0567	0.113	2
06139	Nickel	7440-02-0	18.5	0.113	0.453	2
06141	Selenium	7782-49-2	0.0727 J	0.0453	0.453	2
06142	Silver	7440-22-4	0.106 J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.216	0.0340	0.113	2
06148	Vanadium	7440-62-2	42.7	0.0249	0.113	2
06149	Zinc	7440-66-6	51.2	0.635	3.40	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0153 J	0.0033	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 J	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	446	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.32	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-176-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197579
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE074-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 18:42	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 17:42	Jason M Long	22.98
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 15:10	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 15:09	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 15:11	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/09/2011 14:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110390023A	02/09/2011 18:10	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/10/2011 23:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110390023A	02/09/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:02	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:35	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197579
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL176 SDG#: DE074-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:35	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 05:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 17:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 15:30	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182101B	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402B	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-177-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197580
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL177 SDG#: DE074-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.8	0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.4	0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	0.94
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4	0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	0.94
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4	0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8	0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	0.94
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4	0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.4	0.94
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4	0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	0.94
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4	0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	0.94
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4	0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4	0.94
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	0.94
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	0.94
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	0.94
06192	Ethylbenzene	100-41-4	0.29	J	0.07	4.4	0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	0.94
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5	0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	0.94
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8	0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8	0.94
06192	Methylene Chloride	75-09-2	0.45	J	0.26	4.4	0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	0.94

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197580
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL177 SDG#: DE074-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.4	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4	0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4	0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	0.94
06192	m+p-Xylene	179601-23-1	1.1	J	0.19	4.4	0.94
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	22.01
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	780	U	780	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197580
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL177 SDG#: DE074-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9	1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197580
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL177 SDG#: DE074-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9	1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,200		5.82	23.1	1
07914	Boron	7440-42-8	1.60	J	1.03	5.78	1
01650	Calcium	7440-70-2	7,280		7.09	23.1	1
01654	Iron	7439-89-6	29,300		5.45	23.1	1
01656	Lithium	7439-93-2	42.0		0.25	2.3	1
01657	Magnesium	7439-95-4	5,570		2.94	11.6	1
06958	Manganese	7439-96-5	413		0.0902	0.578	1
10145	Phosphorus	7723-14-0	186		0.648	11.6	1
01662	Potassium	7440-09-7	1,860		20.8	57.8	1
01667	Sodium	7440-23-5	163		43.1	116	1
07968	Strontium	7440-24-6	36.3		0.0717	0.578	1
06969	Tin	7440-31-5	3.11	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,280		0.440	1.16	1
10146	Zirconium	7440-67-7	3.21	J	0.972	5.78	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0681	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.81		0.0907	0.454	2
06126	Barium	7440-39-3	134		0.122	0.454	2
06127	Beryllium	7440-41-7	0.897		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.194		0.0454	0.113	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197580
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL177 SDG#: DE074-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	25.7	0.136	0.454	2
06132	Cobalt	7440-48-4	7.18	0.0227	0.113	2
06133	Copper	7440-50-8	10.7	0.0749	0.454	2
06135	Lead	7439-92-1	9.66	0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.195	0.0567	0.113	2
06139	Nickel	7440-02-0	17.8	0.113	0.454	2
06141	Selenium	7782-49-2	0.0608 J	0.0454	0.454	2
06142	Silver	7440-22-4	0.139	0.0136	0.113	2
06145	Thallium	7440-28-0	0.262	0.0340	0.113	2
06148	Vanadium	7440-62-2	46.5	0.0250	0.113	2
06149	Zinc	7440-66-6	58.2	0.635	3.40	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0176 J	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7	0.93	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	447	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.88	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-177-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197580
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL177 SDG#: DE074-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 19:04	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 18:01	Jason M Long	22.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 15:15	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:27	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 15:14	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 15:37	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/09/2011 15:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110390023A	02/09/2011 18:16	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/10/2011 23:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110390023A	02/09/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:06	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:38	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197580
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL177 SDG#: DE074-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:38	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 05:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 18:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 15:49	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182101B	02/04/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039402B	02/04/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-195-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197581
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.5	0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.81
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7	0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5	0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.81
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7	0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.81
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7	0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7	0.81
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7	0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7	0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7	0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.81
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7	0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5	0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7	0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5	0.81
06192	Methylene Chloride	75-09-2	0.38	J	0.22	3.7	0.81
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7	0.81

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197581
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.81
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7	0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.7	0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.81
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7	0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.81
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7	0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.81
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7	0.81
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7	0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13	18.6
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197581
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197581
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		5.68	22.6	1
07914	Boron	7440-42-8	1.76	J	1.01	5.65	1
01650	Calcium	7440-70-2	2,120		6.92	22.6	1
01654	Iron	7439-89-6	17,900		5.32	22.6	1
01656	Lithium	7439-93-2	16.5		0.25	2.3	1
01657	Magnesium	7439-95-4	3,320		2.87	11.3	1
06958	Manganese	7439-96-5	300		0.0881	0.565	1
10145	Phosphorus	7723-14-0	220		0.633	11.3	1
01662	Potassium	7440-09-7	2,650		20.3	56.5	1
01667	Sodium	7440-23-5	86.9	J	42.1	113	1
07968	Strontium	7440-24-6	20.7		0.0700	0.565	1
06969	Tin	7440-31-5	2.88	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,190		0.429	1.13	1
10146	Zirconium	7440-67-7	2.94	J	0.949	5.65	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0671	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.48		0.0895	0.447	2
06126	Barium	7440-39-3	89.7		0.121	0.447	2
06127	Beryllium	7440-41-7	0.569		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.158		0.0447	0.112	2
06131	Chromium	7440-47-3	17.9		0.134	0.447	2
06132	Cobalt	7440-48-4	5.35		0.0224	0.112	2
06133	Copper	7440-50-8	8.48		0.0738	0.447	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197581
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	5.02	0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.622	0.0559	0.112	2
06139	Nickel	7440-02-0	11.1	0.112	0.447	2
06141	Selenium	7782-49-2	0.130 J	0.0447	0.447	2
06142	Silver	7440-22-4	0.0203 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.257	0.0336	0.112	2
06148	Vanadium	7440-62-2	32.2	0.0246	0.112	2
06149	Zinc	7440-66-6	44.1	0.626	3.36	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50 J	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.10	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-195-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197581
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 19:27	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 22:38	Jason M Long	18.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 15:19	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:27	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:27	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 15:18	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 12:58	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/09/2011 11:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 00:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 19:23	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:03	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197581
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 03:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 15:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 15:55	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-195-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197582
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	130	5.8	7.0	0.76
06192	Benzene	71-43-2	18	0.09	3.5	0.76
06192	Bromobenzene	108-86-1	14	0.11	3.5	0.76
06192	Bromochloromethane	74-97-5	17	0.29	3.5	0.76
06192	Bromodichloromethane	75-27-4	16	0.07	3.5	0.76
06192	Bromoform	75-25-2	15	0.35	3.5	0.76
06192	Bromomethane	74-83-9	15	0.22	3.5	0.76
06192	2-Butanone	78-93-3	110	1.1	7.0	0.76
06192	n-Butylbenzene	104-51-8	16	0.10	3.5	0.76
06192	sec-Butylbenzene	135-98-8	15	0.05	3.5	0.76
06192	tert-Butylbenzene	98-06-6	14	0.14	3.5	0.76
06192	Carbon Tetrachloride	56-23-5	17	0.12	3.5	0.76
06192	Chlorobenzene	108-90-7	17	0.1	3.5	0.76
06192	Chloroethane	75-00-3	15	0.11	3.5	0.76
06192	2-Chloroethyl Vinyl Ether	110-75-8	12	0.26	3.5	0.76
06192	Chloroform	67-66-3	17	0.10	3.5	0.76
06192	Chloromethane	74-87-3	15	0.29	3.5	0.76
06192	2-Chlorotoluene	95-49-8	15	0.12	3.5	0.76
06192	4-Chlorotoluene	106-43-4	15	0.12	3.5	0.76
06192	Chlorotrifluoroethene	79-38-9	11	0.42	4.2	0.73
06192	1,2-Dibromo-3-chloropropane	96-12-8	12	0.61	3.5	0.76
06192	Dibromochloromethane	124-48-1	17	0.17	3.5	0.76
06192	1,2-Dibromoethane	106-93-4	16	0.15	3.5	0.76
06192	Dibromomethane	74-95-3	16	0.21	3.5	0.76
06192	1,2-Dichlorobenzene	95-50-1	15	0.08	3.5	0.76
06192	1,3-Dichlorobenzene	541-73-1	14	0.10	3.5	0.76
06192	1,4-Dichlorobenzene	106-46-7	14	0.14	3.5	0.76
06192	Dichlorodifluoromethane	75-71-8	13	0.10	3.5	0.76
06192	1,1-Dichloroethane	75-34-3	18	0.09	3.5	0.76
06192	1,2-Dichloroethane	107-06-2	16	0.13	3.5	0.76
06192	1,1-Dichloroethene	75-35-4	20	0.34	3.5	0.76
06192	cis-1,2-Dichloroethene	156-59-2	17	0.17	3.5	0.76
06192	trans-1,2-Dichloroethene	156-60-5	18	0.10	3.5	0.76
06192	1,2-Dichloropropane	78-87-5	17	0.15	3.5	0.76
06192	1,3-Dichloropropane	142-28-9	17	0.07	3.5	0.76
06192	2,2-Dichloropropane	594-20-7	18	0.15	3.5	0.76
06192	1,1-Dichloropropene	563-58-6	17	0.11	3.5	0.76
06192	cis-1,3-Dichloropropene	10061-01-5	13	0.14	3.5	0.76
06192	trans-1,3-Dichloropropene	10061-02-6	14	0.15	3.5	0.76
06192	Ethylbenzene	100-41-4	16	0.05	3.5	0.76
06192	Freon 113	76-13-1	20	0.1	3.5	0.76
06192	Freon 133a	75-88-7	13	0.42	4.2	0.73
06192	Hexachlorobutadiene	87-68-3	12	0.12	3.5	0.76
06192	2-Hexanone	591-78-6	47	1.4	7.0	0.76
06192	Isopropylbenzene	98-82-8	15	0.05	3.5	0.76
06192	p-Isopropyltoluene	99-87-6	15	0.1	3.5	0.76
06192	Methyl Tertiary Butyl Ether	1634-04-4	14	0.18	3.5	0.76
06192	4-Methyl-2-pentanone	108-10-1	48	0.34	7.0	0.76
06192	Methylene Chloride	75-09-2	18	0.21	3.5	0.76
06192	n-Propylbenzene	103-65-1	16	0.06	3.5	0.76

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197582
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	16		0.09	3.5	0.76
06192	1,1,1,2-Tetrachloroethane	630-20-6	17		0.1	3.5	0.76
06192	1,1,2,2-Tetrachloroethane	79-34-5	15		0.20	3.5	0.76
06192	Tetrachloroethene	127-18-4	16		0.17	3.5	0.76
06192	Toluene	108-88-3	17		0.07	3.5	0.76
06192	1,2,3-Trichlorobenzene	87-61-6	11		0.12	3.5	0.76
06192	1,2,4-Trichlorobenzene	120-82-1	9.5		0.16	3.5	0.76
06192	1,1,1-Trichloroethane	71-55-6	17		0.17	3.5	0.76
06192	1,1,2-Trichloroethane	79-00-5	17		0.24	3.5	0.76
06192	Trichloroethene	79-01-6	16		0.13	3.5	0.76
06192	Trichlorofluoromethane	75-69-4	17		0.25	3.5	0.76
06192	1,2,3-Trichloropropane	96-18-4	14		0.29	3.5	0.76
06192	1,2,4-Trimethylbenzene	95-63-6	15		0.35	3.5	0.76
06192	1,3,5-Trimethylbenzene	108-67-8	15		0.09	3.5	0.76
06192	Vinyl Chloride	75-01-4	16		0.17	3.5	0.76
06192	m+p-Xylene	179601-23-1	34		0.15	3.5	0.76
06192	o-Xylene	95-47-6	14		0.15	3.5	0.76
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	92		4.6	14	20.03
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		19	190	1
04688	Acenaphthylene	208-96-8	1,800		19	190	1
04688	Aniline	62-53-3	1,300		190	580	1
04688	Anthracene	120-12-7	1,800		19	190	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		19	190	1
04688	Benzoic acid	65-85-0	1,800		190	580	1
04688	Benzyl alcohol	100-51-6	1,800		190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		19	190	1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190	1
04688	4-Chloroaniline	106-47-8	1,100		77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,400		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		38	190	1
04688	Chrysene	218-01-9	2,000		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197582
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	120	380	1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190	1
04688	Diethylphthalate	84-66-2	1,900	19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,700	38	190	1
04688	3,5-Dimethylphenol	108-68-9	1,900	38	190	1
04688	Dimethylphthalate	131-11-3	1,800	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	190	580	1
04688	2,4-Dinitrophenol	51-28-5	3,000	770	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,900	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	2,000	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	19	380	1
04688	Fluoranthene	206-44-0	1,800	19	190	1
04688	Fluorene	86-73-7	1,700	19	190	1
04688	Hexachlorobenzene	118-74-1	1,800	19	190	1
04688	Hexachlorobutadiene	87-68-3	1,400	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	190	580	1
04688	Hexachloroethane	67-72-1	1,500	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190	1
04688	Isophorone	78-59-1	1,700	19	190	1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190	1
04688	2-Methylphenol	95-48-7	1,800	38	190	1
04688	4-Methylphenol	106-44-5	1,700	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	19	190	1
04688	2-Nitroaniline	88-74-4	1,900	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	38	190	1
04688	4-Nitroaniline	100-01-6	1,500	77	190	1
04688	Nitrobenzene	98-95-3	1,700	19	190	1
04688	2-Nitrophenol	88-75-5	1,600	19	190	1
04688	4-Nitrophenol	100-02-7	1,700	190	580	1
04688	N-Nitrosodimethylamine	62-75-9	1,900	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	19	190	1
04688	Pentachlorophenol	87-86-5	1,500	190	580	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,900	19	190	1
04688	Pyrene	129-00-0	2,000	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197582
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,700		38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: butylbenzylphthalate						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.77	1.9	1
10138	Acenaphthylene	208-96-8	35		0.38	1.9	1
10138	Anthracene	120-12-7	38		0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	44		0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	36		0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	39		0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	39		0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	36		0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	48		6.9	21	1
10138	Di-n-butylphthalate	84-74-2	43		6.9	21	1
10138	Chrysene	218-01-9	41		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	37		0.77	1.9	1
10138	Diethylphthalate	84-66-2	39		6.9	21	1
10138	Dimethylphthalate	131-11-3	40		6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	55		6.9	21	1
10138	Fluoranthene	206-44-0	40		0.77	1.9	1
10138	Fluorene	86-73-7	38		0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37		0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	35		0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	32		0.77	1.9	1
10138	Naphthalene	91-20-3	35		0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	35		0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	42		6.9	21	1
10138	Phenanthrene	85-01-8	37		0.77	1.9	1
10138	Pyrene	129-00-0	41		0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	17		0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	48		0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197582
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100	5.68	22.6	1
07914	Boron	7440-42-8	211	1.01	5.65	1
01650	Calcium	7440-70-2	2,970	6.92	22.6	1
01654	Iron	7439-89-6	21,100	5.32	22.6	1
01656	Lithium	7439-93-2	131	0.25	2.3	1
01657	Magnesium	7439-95-4	4,050	2.87	11.3	1
06958	Manganese	7439-96-5	390	0.0881	0.565	1
10145	Phosphorus	7723-14-0	351	0.633	11.3	1
01662	Potassium	7440-09-7	4,180	20.3	56.5	1
01667	Sodium	7440-23-5	1,180	42.1	113	1
07968	Strontium	7440-24-6	129	0.0700	0.565	1
06969	Tin	7440-31-5	416	1.13	11.3	1
06970	Titanium	7440-32-6	1,570	0.429	1.13	1
10146	Zirconium	7440-67-7	109	0.949	5.65	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.762	0.0671	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.72	0.0895	0.447	2
06126	Barium	7440-39-3	105	0.121	0.447	2
06127	Beryllium	7440-41-7	1.34	0.0179	0.112	2
06128	Cadmium	7440-43-9	1.29	0.0447	0.112	2
06131	Chromium	7440-47-3	28.6	0.134	0.447	2
06132	Cobalt	7440-48-4	54.9	0.0224	0.112	2
06133	Copper	7440-50-8	19.0	0.0738	0.447	2
06135	Lead	7439-92-1	8.34	0.0116	0.224	2
06138	Molybdenum	7439-98-7	11.2	0.0559	0.112	2
06139	Nickel	7440-02-0	22.1	0.112	0.447	2
06141	Selenium	7782-49-2	2.34	0.0447	0.447	2
06142	Silver	7440-22-4	11.1	0.0134	0.112	2
06145	Thallium	7440-28-0	0.699	0.0336	0.112	2
06148	Vanadium	7440-62-2	43.9	0.0246	0.112	2
06149	Zinc	7440-66-6	52.1	0.626	3.36	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.188	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.8	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	501	10.4	34.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	43.7	1.2	5.8	5

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197582
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-195-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 19:49	Chelsea B Eastep	0.76
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 20:34	Chelsea B Eastep	0.73
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 22:58	Jason M Long	20.03
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 14:05	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 14:02	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 13:25	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/09/2011 12:27	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 00:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197582
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 19:35	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:13	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 04:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/18/2011 06:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 16:14	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-195-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197583
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	180	6.4	7.7	0.83
06192	Benzene	71-43-2	21	0.1	3.8	0.83
06192	Bromobenzene	108-86-1	16	0.13	3.8	0.83
06192	Bromochloromethane	74-97-5	19	0.32	3.8	0.83
06192	Bromodichloromethane	75-27-4	19	0.08	3.8	0.83
06192	Bromoform	75-25-2	17	0.38	3.8	0.83
06192	Bromomethane	74-83-9	18	0.24	3.8	0.83
06192	2-Butanone	78-93-3	140	1.2	7.7	0.83
06192	n-Butylbenzene	104-51-8	18	0.12	3.8	0.83
06192	sec-Butylbenzene	135-98-8	17	0.06	3.8	0.83
06192	tert-Butylbenzene	98-06-6	16	0.15	3.8	0.83
06192	Carbon Tetrachloride	56-23-5	20	0.13	3.8	0.83
06192	Chlorobenzene	108-90-7	19	0.11	3.8	0.83
06192	Chloroethane	75-00-3	18	0.13	3.8	0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	14	0.29	3.8	0.83
06192	Chloroform	67-66-3	21	0.12	3.8	0.83
06192	Chloromethane	74-87-3	20	0.32	3.8	0.83
06192	2-Chlorotoluene	95-49-8	17	0.13	3.8	0.83
06192	4-Chlorotoluene	106-43-4	17	0.13	3.8	0.83
06192	Chlorotrifluoroethene	79-38-9	13	0.44	4.4	0.76
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.67	3.8	0.83
06192	Dibromochloromethane	124-48-1	20	0.19	3.8	0.83
06192	1,2-Dibromoethane	106-93-4	19	0.16	3.8	0.83
06192	Dibromomethane	74-95-3	19	0.23	3.8	0.83
06192	1,2-Dichlorobenzene	95-50-1	18	0.09	3.8	0.83
06192	1,3-Dichlorobenzene	541-73-1	17	0.12	3.8	0.83
06192	1,4-Dichlorobenzene	106-46-7	17	0.15	3.8	0.83
06192	Dichlorodifluoromethane	75-71-8	15	0.12	3.8	0.83
06192	1,1-Dichloroethane	75-34-3	21	0.1	3.8	0.83
06192	1,2-Dichloroethane	107-06-2	20	0.14	3.8	0.83
06192	1,1-Dichloroethene	75-35-4	23	0.38	3.8	0.83
06192	cis-1,2-Dichloroethene	156-59-2	20	0.18	3.8	0.83
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	3.8	0.83
06192	1,2-Dichloropropane	78-87-5	20	0.16	3.8	0.83
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.8	0.83
06192	2,2-Dichloropropane	594-20-7	21	0.16	3.8	0.83
06192	1,1-Dichloropropene	563-58-6	20	0.13	3.8	0.83
06192	cis-1,3-Dichloropropene	10061-01-5	16	0.15	3.8	0.83
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.16	3.8	0.83
06192	Ethylbenzene	100-41-4	19	0.06	3.8	0.83
06192	Freon 113	76-13-1	24	0.11	3.8	0.83
06192	Freon 133a	75-88-7	15	0.44	4.4	0.76
06192	Hexachlorobutadiene	87-68-3	14	0.13	3.8	0.83
06192	2-Hexanone	591-78-6	61	1.5	7.7	0.83
06192	Isopropylbenzene	98-82-8	17	0.06	3.8	0.83
06192	p-Isopropyltoluene	99-87-6	17	0.11	3.8	0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.20	3.8	0.83
06192	4-Methyl-2-pentanone	108-10-1	63	0.38	7.7	0.83
06192	Methylene Chloride	75-09-2	21	0.23	3.8	0.83
06192	n-Propylbenzene	103-65-1	19	0.07	3.8	0.83

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197583
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	18		0.1	3.8	0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	20		0.11	3.8	0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	19		0.22	3.8	0.83
06192	Tetrachloroethene	127-18-4	19		0.19	3.8	0.83
06192	Toluene	108-88-3	20		0.08	3.8	0.83
06192	1,2,3-Trichlorobenzene	87-61-6	14		0.13	3.8	0.83
06192	1,2,4-Trichlorobenzene	120-82-1	12		0.17	3.8	0.83
06192	1,1,1-Trichloroethane	71-55-6	20		0.19	3.8	0.83
06192	1,1,2-Trichloroethane	79-00-5	20		0.26	3.8	0.83
06192	Trichloroethene	79-01-6	19		0.14	3.8	0.83
06192	Trichlorofluoromethane	75-69-4	20		0.28	3.8	0.83
06192	1,2,3-Trichloropropane	96-18-4	18		0.32	3.8	0.83
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.38	3.8	0.83
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.1	3.8	0.83
06192	Vinyl Chloride	75-01-4	19		0.19	3.8	0.83
06192	m+p-Xylene	179601-23-1	40		0.16	3.8	0.83
06192	o-Xylene	95-47-6	17		0.16	3.8	0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	100		4.7	14	20.49
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,900		19	190	1
04688	Aniline	62-53-3	1,200		190	580	1
04688	Anthracene	120-12-7	1,800		19	190	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		19	190	1
04688	Benzoic acid	65-85-0	1,900		190	580	1
04688	Benzyl alcohol	100-51-6	1,800		190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190	1
04688	Butylbenzylphthalate	85-68-7	2,000		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190	1
04688	4-Chloroaniline	106-47-8	1,100		77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190	1
04688	2-Chlorophenol	95-57-8	1,900		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		38	190	1
04688	Chrysene	218-01-9	2,000		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197583
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	120	380	1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190	1
04688	Diethylphthalate	84-66-2	1,900	19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800	38	190	1
04688	3,5-Dimethylphenol	108-68-9	2,100	38	190	1
04688	Dimethylphthalate	131-11-3	1,800	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	190	580	1
04688	2,4-Dinitrophenol	51-28-5	3,000	770	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,900	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	2,000	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	380	1
04688	Fluoranthene	206-44-0	1,800	19	190	1
04688	Fluorene	86-73-7	1,800	19	190	1
04688	Hexachlorobenzene	118-74-1	1,700	19	190	1
04688	Hexachlorobutadiene	87-68-3	1,500	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	580	1
04688	Hexachloroethane	67-72-1	1,500	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190	1
04688	Isophorone	78-59-1	1,700	19	190	1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,900	38	190	1
04688	4-Methylphenol	106-44-5	1,800	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,800	19	190	1
04688	2-Nitroaniline	88-74-4	1,800	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	38	190	1
04688	4-Nitroaniline	100-01-6	1,400	77	190	1
04688	Nitrobenzene	98-95-3	1,800	19	190	1
04688	2-Nitrophenol	88-75-5	1,800	19	190	1
04688	4-Nitrophenol	100-02-7	1,700	190	580	1
04688	N-Nitrosodimethylamine	62-75-9	1,700	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	19	190	1
04688	Pentachlorophenol	87-86-5	1,600	190	580	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	2,000	19	190	1
04688	Pyrene	129-00-0	2,000	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197583
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: butylbenzylphthalate						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	36		0.77	1.9	1
10138	Acenaphthylene	208-96-8	36		0.38	1.9	1
10138	Anthracene	120-12-7	37		0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	43		0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	37		0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	40		0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	40		0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	39		0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	46		6.9	21	1
10138	Di-n-butylphthalate	84-74-2	41		6.9	21	1
10138	Chrysene	218-01-9	40		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	38		0.77	1.9	1
10138	Diethylphthalate	84-66-2	37		6.9	21	1
10138	Dimethylphthalate	131-11-3	40		6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		6.9	21	1
10138	Fluoranthene	206-44-0	40		0.77	1.9	1
10138	Fluorene	86-73-7	39		0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38		0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	36		0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	32		0.77	1.9	1
10138	Naphthalene	91-20-3	36		0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	37		0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	43		6.9	21	1
10138	Phenanthrene	85-01-8	37		0.77	1.9	1
10138	Pyrene	129-00-0	40		0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	28		0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	51		0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197583
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700	5.68	22.6	1
07914	Boron	7440-42-8	210	1.01	5.65	1
01650	Calcium	7440-70-2	2,960	6.92	22.6	1
01654	Iron	7439-89-6	20,400	5.32	22.6	1
01656	Lithium	7439-93-2	131	0.25	2.3	1
01657	Magnesium	7439-95-4	4,060	2.87	11.3	1
06958	Manganese	7439-96-5	356	0.0881	0.565	1
10145	Phosphorus	7723-14-0	345	0.633	11.3	1
01662	Potassium	7440-09-7	4,130	20.3	56.5	1
01667	Sodium	7440-23-5	1,180	42.1	113	1
07968	Strontium	7440-24-6	128	0.0700	0.565	1
06969	Tin	7440-31-5	417	1.13	11.3	1
06970	Titanium	7440-32-6	1,540	0.429	1.13	1
10146	Zirconium	7440-67-7	108	0.949	5.65	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.755	0.0691	0.230	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.06	0.0922	0.461	2
06126	Barium	7440-39-3	108	0.124	0.461	2
06127	Beryllium	7440-41-7	1.41	0.0184	0.115	2
06128	Cadmium	7440-43-9	1.22	0.0461	0.115	2
06131	Chromium	7440-47-3	28.6	0.138	0.461	2
06132	Cobalt	7440-48-4	53.6	0.0230	0.115	2
06133	Copper	7440-50-8	18.4	0.0760	0.461	2
06135	Lead	7439-92-1	8.61	0.0120	0.230	2
06138	Molybdenum	7439-98-7	11.5	0.0576	0.115	2
06139	Nickel	7440-02-0	21.4	0.115	0.461	2
06141	Selenium	7782-49-2	2.41	0.0461	0.461	2
06142	Silver	7440-22-4	11.5	0.0138	0.115	2
06145	Thallium	7440-28-0	0.698	0.0346	0.115	2
06148	Vanadium	7440-62-2	43.3	0.0253	0.115	2
06149	Zinc	7440-66-6	52.9	0.645	3.46	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.185	0.0032	0.111	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197583
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-195-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 20:12	Chelsea B Eastep	0.83
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 20:57	Chelsea B Eastep	0.76
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 23:18	Jason M Long	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 13:53	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 13:50	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 13:51	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/09/2011 12:59	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 00:45	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 19:39	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197583
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:16	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:16	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-195-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197584
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.74	22.8	1
07914	Boron	7440-42-8	1.49	J	1.02	5.70	1
01650	Calcium	7440-70-2	2,140		6.99	22.8	1
01654	Iron	7439-89-6	18,100		5.37	22.8	1
01656	Lithium	7439-93-2	16.9		0.25	2.3	1
01657	Magnesium	7439-95-4	3,450		2.90	11.4	1
06958	Manganese	7439-96-5	294		0.0890	0.570	1
10145	Phosphorus	7723-14-0	210		0.639	11.4	1
01662	Potassium	7440-09-7	2,590		20.5	57.0	1
01667	Sodium	7440-23-5	87.4	J	42.5	114	1
07968	Strontium	7440-24-6	21.0		0.0707	0.570	1
06969	Tin	7440-31-5	2.80	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,200		0.433	1.14	1
10146	Zirconium	7440-67-7	3.11	J	0.958	5.70	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0684	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.13		0.0913	0.456	2
06126	Barium	7440-39-3	91.2		0.123	0.456	2
06127	Beryllium	7440-41-7	0.601		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.122		0.0456	0.114	2
06131	Chromium	7440-47-3	19.3		0.137	0.456	2
06132	Cobalt	7440-48-4	5.13		0.0228	0.114	2
06133	Copper	7440-50-8	8.48		0.0753	0.456	2
06135	Lead	7439-92-1	5.13		0.0119	0.228	2
06138	Molybdenum	7439-98-7	0.657		0.0570	0.114	2
06139	Nickel	7440-02-0	11.1		0.114	0.456	2
06141	Selenium	7782-49-2	0.163	J	0.0456	0.456	2
06142	Silver	7440-22-4	0.0290	J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.243		0.0342	0.114	2
06148	Vanadium	7440-62-2	34.5		0.0251	0.114	2
06149	Zinc	7440-66-6	42.9		0.639	3.42	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0039	J	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197584
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	393	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.10	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1
11626	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 19:31	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197584
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL195 SDG#: DE074-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:10	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 04:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 15:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 17:04	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-197-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197585
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL197 SDG#: DE074-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3	0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.6	0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6	0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6	0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6	0.81
06192	Bromoform	75-25-2	0.36	U	0.36	3.6	0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6	0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3	0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6	0.81
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6	0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.6	0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6	0.81
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6	0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6	0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6	0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.6	0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6	0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6	0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6	0.81
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5	0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63	U	0.63	3.6	0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6	0.81
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6	0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6	0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6	0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6	0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.6	0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6	0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6	0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6	0.81
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6	0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6	0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6	0.81
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6	0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6	0.81
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6	0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6	0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.6	0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6	0.81
06192	Ethylbenzene	100-41-4	0.17	J	0.05	3.6	0.81
06192	Freon 113	76-13-1	0.1	U	0.1	3.6	0.81
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5	0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6	0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3	0.81
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6	0.81
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6	0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6	0.81
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.3	0.81
06192	Methylene Chloride	75-09-2	0.35	J	0.22	3.6	0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6	0.81

*=This limit was used in the evaluation of the final result

Sample Description: SL-197-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197585
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL197 SDG#: DE074-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6	0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6	0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6	0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6	0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.6	0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6	0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6	0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6	0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.6	0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6	0.81
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6	0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6	0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6	0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6	0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6	0.81
06192	m+p-Xylene	179601-23-1	0.60	J	0.15	3.6	0.81
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6	0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13	19.23
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-197-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197585
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL197 SDG#: DE074-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-197-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197585
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL197 SDG#: DE074-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,100		5.58	22.2	1
07914	Boron	7440-42-8	0.987	U	0.987	5.54	1
01650	Calcium	7440-70-2	2,900		6.80	22.2	1
01654	Iron	7439-89-6	23,600		5.22	22.2	1
01656	Lithium	7439-93-2	24.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,560		2.82	11.1	1
06958	Manganese	7439-96-5	347		0.0865	0.554	1
10145	Phosphorus	7723-14-0	143		0.621	11.1	1
01662	Potassium	7440-09-7	1,320		20.0	55.4	1
01667	Sodium	7440-23-5	211		41.4	111	1
07968	Strontium	7440-24-6	24.6		0.0687	0.554	1
06969	Tin	7440-31-5	2.66	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,290		0.421	1.11	1
10146	Zirconium	7440-67-7	2.33	J	0.931	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0686	J	0.0665	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.75		0.0887	0.443	2
06126	Barium	7440-39-3	96.5		0.120	0.443	2
06127	Beryllium	7440-41-7	0.583		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.0819	J	0.0443	0.111	2
06131	Chromium	7440-47-3	18.0		0.133	0.443	2
06132	Cobalt	7440-48-4	7.75		0.0222	0.111	2
06133	Copper	7440-50-8	6.37		0.0732	0.443	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-197-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197585
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL197 SDG#: DE074-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	4.98	0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.327	0.0554	0.111	2
06139	Nickel	7440-02-0	11.4	0.111	0.443	2
06141	Selenium	7782-49-2	0.0789 J	0.0443	0.443	2
06142	Silver	7440-22-4	0.0393 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.225	0.0333	0.111	2
06148	Vanadium	7440-62-2	36.3	0.0244	0.111	2
06149	Zinc	7440-66-6	43.6	0.621	3.33	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	406	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.78	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-197-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-197-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197585
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL197 SDG#: DE074-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 21:20	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 18:21	Jason M Long	19.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 15:02	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 15:02	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 16:04	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 10:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 01:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:10	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:41	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:41	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:41	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-197-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197585
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL197 SDG#: DE074-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:41	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 11:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 05:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 18:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11050243201A	02/21/2011 17:10	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-198-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197586
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE074-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.2	U	6.2	7.4	0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.82
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7	0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.82
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.82
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4	0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.82
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7	0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.82
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7	0.82
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7	0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.82
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.82
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7	0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.82
06192	Ethylbenzene	100-41-4	0.10	J	0.06	3.7	0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.82
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4	0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7	0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4	0.82
06192	Methylene Chloride	75-09-2	0.37	J	0.22	3.7	0.82
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7	0.82

*=This limit was used in the evaluation of the final result

Sample Description: SL-198-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197586
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE074-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.82
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7	0.82
06192	Toluene	108-88-3	0.07	U	0.07	3.7	0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.82
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7	0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.82
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7	0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.82
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7	0.82
06192	m+p-Xylene	179601-23-1	0.33	J	0.16	3.7	0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	20.59
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-198-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197586
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE074-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.5	J	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-198-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197586
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE074-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,000		5.61	22.3	1
07914	Boron	7440-42-8	1.65	J	0.993	5.58	1
01650	Calcium	7440-70-2	3,100		6.84	22.3	1
01654	Iron	7439-89-6	23,200		5.26	22.3	1
01656	Lithium	7439-93-2	32.3		0.25	2.2	1
01657	Magnesium	7439-95-4	4,610		2.84	11.2	1
06958	Manganese	7439-96-5	179		0.0871	0.558	1
10145	Phosphorus	7723-14-0	104		0.625	11.2	1
01662	Potassium	7440-09-7	1,390		20.1	55.8	1
01667	Sodium	7440-23-5	283		41.6	112	1
07968	Strontium	7440-24-6	25.9		0.0692	0.558	1
06969	Tin	7440-31-5	3.01	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,300		0.424	1.12	1
10146	Zirconium	7440-67-7	2.60	J	0.938	5.58	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0840	J	0.0676	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.90		0.0902	0.451	2
06126	Barium	7440-39-3	92.1		0.122	0.451	2
06127	Beryllium	7440-41-7	0.620		0.0180	0.113	2
06128	Cadmium	7440-43-9	0.130		0.0451	0.113	2
06131	Chromium	7440-47-3	20.3		0.135	0.451	2
06132	Cobalt	7440-48-4	3.94		0.0225	0.113	2
06133	Copper	7440-50-8	6.82		0.0744	0.451	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-198-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197586
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

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Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE074-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	4.21	0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.211	0.0564	0.113	2
06139	Nickel	7440-02-0	11.8	0.113	0.451	2
06141	Selenium	7782-49-2	0.0680 J	0.0451	0.451	2
06142	Silver	7440-22-4	0.0740 J	0.0135	0.113	2
06145	Thallium	7440-28-0	0.185	0.0338	0.113	2
06148	Vanadium	7440-62-2	37.9	0.0248	0.113	2
06149	Zinc	7440-66-6	45.6	0.631	3.38	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093 J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.5	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	413	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.10	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-198-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197586
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE074-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 21:42	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 18:41	Jason M Long	20.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 14:58	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 14:58	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 16:30	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 00:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 01:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:14	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:44	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:44	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:44	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197586
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL198 SDG#: DE074-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:44	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 06:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 18:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 17:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197587
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE074-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4	0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.81
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7	0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4	0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.81
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7	0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7	0.81
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7	0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7	0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.81
06192	Ethylbenzene	100-41-4	0.25	J	0.06	3.7	0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4	0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7	0.81
06192	4-Methyl-2-pentanone	108-10-1	9.2		0.36	7.4	0.81
06192	Methylene Chloride	75-09-2	0.51	J	0.22	3.7	0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7	0.81

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197587
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE074-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.81
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7	0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.7	0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.81
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7	0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.81
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7	0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.81
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7	0.81
06192	m+p-Xylene	179601-23-1	0.94	J	0.16	3.7	0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	21.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197587
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE074-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197587
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE074-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		5.74	22.8	1
07914	Boron	7440-42-8	2.28	J	1.02	5.71	1
01650	Calcium	7440-70-2	2,710		7.00	22.8	1
01654	Iron	7439-89-6	24,400		5.38	22.8	1
01656	Lithium	7439-93-2	26.8		0.25	2.3	1
01657	Magnesium	7439-95-4	4,310		2.90	11.4	1
06958	Manganese	7439-96-5	235		0.0891	0.571	1
10145	Phosphorus	7723-14-0	157		0.640	11.4	1
01662	Potassium	7440-09-7	1,680		20.6	57.1	1
01667	Sodium	7440-23-5	184		42.6	114	1
07968	Strontium	7440-24-6	25.6		0.0708	0.571	1
06969	Tin	7440-31-5	3.00	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,380		0.434	1.14	1
10146	Zirconium	7440-67-7	2.95	J	0.959	5.71	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0678	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.48		0.0905	0.452	2
06126	Barium	7440-39-3	107		0.122	0.452	2
06127	Beryllium	7440-41-7	0.714		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.0599	J	0.0452	0.113	2
06131	Chromium	7440-47-3	22.8		0.136	0.452	2
06132	Cobalt	7440-48-4	5.02		0.0226	0.113	2
06133	Copper	7440-50-8	7.23		0.0746	0.452	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197587
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE074-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	6.02	0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.467	0.0565	0.113	2
06139	Nickel	7440-02-0	12.2	0.113	0.452	2
06141	Selenium	7782-49-2	0.0867 J	0.0452	0.452	2
06142	Silver	7440-22-4	0.0501 J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.248	0.0339	0.113	2
06148	Vanadium	7440-62-2	41.7	0.0249	0.113	2
06149	Zinc	7440-66-6	42.3	0.633	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0097 J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34 J	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	422	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.84	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-199-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197587
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE074-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 22:04	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 19:01	Jason M Long	21.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 14:52	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 14:53	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 16:57	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 01:30	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 01:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:19	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:48	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:48	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197587
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL199 SDG#: DE074-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 06:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 19:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 17:41	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-200-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197588
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL200 SDG#: DE074-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6	0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.8	0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8	0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8	0.82
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8	0.82
06192	Bromoform	75-25-2	0.38	U	0.38	3.8	0.82
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8	0.82
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6	0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8	0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8	0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8	0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8	0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8	0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8	0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8	0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.8	0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8	0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8	0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8	0.82
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8	0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8	0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8	0.82
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8	0.82
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8	0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8	0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8	0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8	0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8	0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8	0.82
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8	0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8	0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8	0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8	0.82
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8	0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8	0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8	0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8	0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8	0.82
06192	Ethylbenzene	100-41-4	0.16	J	0.06	3.8	0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.8	0.82
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7	0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8	0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6	0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8	0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8	0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8	0.82
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6	0.82
06192	Methylene Chloride	75-09-2	0.43	J	0.23	3.8	0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8	0.82

*=This limit was used in the evaluation of the final result

Sample Description: SL-200-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197588
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL200 SDG#: DE074-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8	0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8	0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8	0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8	0.82
06192	Toluene	108-88-3	0.08	U	0.08	3.8	0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8	0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8	0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8	0.82
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8	0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8	0.82
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8	0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8	0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8	0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8	0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8	0.82
06192	m+p-Xylene	179601-23-1	0.62	J	0.16	3.8	0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8	0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	20
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-200-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197588
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
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Chantilly VA 20151

SL200 SDG#: DE074-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197588
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL200 SDG#: DE074-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		5.74	22.8	1
07914	Boron	7440-42-8	2.02	J	1.02	5.70	1
01650	Calcium	7440-70-2	2,280		6.99	22.8	1
01654	Iron	7439-89-6	21,700		5.37	22.8	1
01656	Lithium	7439-93-2	22.0		0.25	2.3	1
01657	Magnesium	7439-95-4	3,970		2.90	11.4	1
06958	Manganese	7439-96-5	356		0.0890	0.570	1
10145	Phosphorus	7723-14-0	229		0.639	11.4	1
01662	Potassium	7440-09-7	2,730		20.5	57.0	1
01667	Sodium	7440-23-5	110	J	42.5	114	1
07968	Strontium	7440-24-6	22.5		0.0707	0.570	1
06969	Tin	7440-31-5	2.58	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,310		0.433	1.14	1
10146	Zirconium	7440-67-7	2.98	J	0.958	5.70	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0684	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.80		0.0913	0.456	2
06126	Barium	7440-39-3	111		0.123	0.456	2
06127	Beryllium	7440-41-7	0.676		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.178		0.0456	0.114	2
06131	Chromium	7440-47-3	19.9		0.137	0.456	2
06132	Cobalt	7440-48-4	6.29		0.0228	0.114	2
06133	Copper	7440-50-8	9.13		0.0753	0.456	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-200-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197588
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL200 SDG#: DE074-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	5.77		0.0119	0.228	2
06138	Molybdenum	7439-98-7	0.750		0.0570	0.114	2
06139	Nickel	7440-02-0	13.1		0.114	0.456	2
06141	Selenium	7782-49-2	0.113	J	0.0456	0.456	2
06142	Silver	7440-22-4	0.0382	J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.260		0.0342	0.114	2
06148	Vanadium	7440-62-2	35.7		0.0251	0.114	2
06149	Zinc	7440-66-6	49.5		0.639	3.42	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0065	J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	426		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.49		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-200-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197588
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL200 SDG#: DE074-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 22:27	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110352AA	02/04/2011 19:20	Jason M Long	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 14:49	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:28	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 14:46	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 17:23	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 02:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 01:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:23	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:51	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:51	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197588
LLI Group # 1231533
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL200 SDG#: DE074-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 07:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 19:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 17:53	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110351AA	Sample number(s): 6197577-6197583,6197585-6197588									
Acetone	7.5	J	6.7	8.0	ug/kg	200		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	104		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	84		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	99		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	93		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	86		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	141		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	99		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	89		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	83		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	82		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	80		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	86		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	92		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	75		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	99		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	97		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	83		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	97		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	83		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	80		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	94		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	90		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	92		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	70		61-134		
Methylene Chloride	0.79	J	0.24	4.0	ug/kg	105		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	99		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	98		77-120		
Toluene	0.53	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	77		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	68		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	105		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	96		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	94		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	88		80-120		
Batch number: E110352AA	Sample number(s): 6197577-6197583,6197585-6197588									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	103	107	70-130	4	30
Batch number: 11037SLA026	Sample number(s): 6197577-6197583,6197585-6197588									
Acenaphthene	17	U	17.	170	ug/kg	92		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	98		75-122		
Aniline	170 U		170.	500	ug/kg	55		34-94		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	104		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	100		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	98		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	108		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	99		67-125		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	98		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	117*		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	98		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	75		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Chrysene	17	U	17.	170	ug/kg	106		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	106		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	111		75-117		
Fluoranthene	17	U	17.	170	ug/kg	96		78-116		
Fluorene	17	U	17.	170	ug/kg	92		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	71		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	99		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	88		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	64		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	97		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	95		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	89		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	80		51-117		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	104		58-112		
Pyrene	17	U	17.	170	ug/kg	112		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11037SLB026	Sample number(s): 6197577-6197583,6197585-6197588									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	92		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	96		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	92		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	132		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	97		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	104		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	104		56-121		
Batch number: 110390023A	Sample number(s): 6197579-6197580									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110350007A	Sample number(s): 6197577-6197583,6197585-6197588									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	63*	57*	75-125	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	102		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	268*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110351026001A	Sample number(s): 6197577-6197588									
Antimony	0.0600	U	0.0600	0.200	mg/kg	110		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	108		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	110		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	99		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	109		78-122		
Batch number: 110351026001B	Sample number(s): 6197577-6197588									
Selenium	0.0400	U	0.0400	0.400	mg/kg	107		79-122		
Batch number: 110351026001C	Sample number(s): 6197577-6197588									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		78-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110351026001D	Sample number(s): 6197577-6197588									
Barium	0.108	U	0.108	0.400	mg/kg	107		79-121		
Batch number: 110355708002	Sample number(s): 6197577-6197588									
Aluminum	5.03	U	5.03	20.0	mg/kg	96		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	0.560	U	0.560	10.0	mg/kg	100		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		79-121		
Tin	1.48	J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	100		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	99		80-120		
Batch number: 110355711002	Sample number(s): 6197577-6197588									
Mercury	0.0028	U	0.0028	0.0980	mg/kg	99		88-123		
Batch number: 11042621201A	Sample number(s): 6197577-6197582,6197584-6197588									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11042621202A	Sample number(s): 6197577-6197582,6197584-6197588									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11050243201A	Sample number(s): 6197577-6197582,6197584-6197588									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11035039402B	Sample number(s): 6197577-6197580									
22a pH by 9045C						101		95-105		
Batch number: 11035039403A	Sample number(s): 6197581,6197584-6197588									
22a pH by 9045C						101		95-105		
Batch number: 11035182101B	Sample number(s): 6197577-6197580									
32a OR Potential						99		98-102		
Batch number: 11035182102A	Sample number(s): 6197581,6197584-6197588									
32a OR Potential						100		98-102		
Batch number: 11041162401A	Sample number(s): 6197577-6197588									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: B110351AA	Sample number(s): 6197577-6197583,6197585-6197588 UNSPK: 6197581								
Acetone	102	122	15-210	27	30				
Benzene	101	107	55-143	16	30				
Bromobenzene	80	85	43-139	17	30				
Bromochloromethane	97	96	60-137	10	30				
Bromodichloromethane	92	97	53-136	15	30				
Bromoform	84	91	38-124	18	30				
Bromomethane	88	95	42-168	18	30				
2-Butanone	83	98	37-163	27	30				
n-Butylbenzene	90	92	30-146	12	30				
sec-Butylbenzene	84	88	33-157	14	30				
tert-Butylbenzene	79	82	41-152	14	30				
Carbon Tetrachloride	100	104	45-153	14	30				
Chlorobenzene	98	101	49-135	12	30				
Chloroethane	89	93	39-152	15	30				
2-Chloroethyl Vinyl Ether	69	75	32-139	18	30				
Chloroform	100	108	61-142	17	30				
Chloromethane	87	103	51-163	26	30				
2-Chlorotoluene	86	91	42-146	15	30				
4-Chlorotoluene	87	90	39-145	14	30				
Chlorotrifluoroethene	67*	74	70-130	14	30				
1,2-Dibromo-3-chloropropane	72	84	30-139	26	30				
Dibromochloromethane	96	102	51-128	16	30				
1,2-Dibromoethane	90	99	54-129	20	30				
Dibromomethane	92	99	57-130	17	30				
1,2-Dichlorobenzene	87	93	36-133	17	30				
1,3-Dichlorobenzene	81	86	34-134	16	30				
1,4-Dichlorobenzene	83	88	35-136	16	30				
Dichlorodifluoromethane	77	80	26-151	14	30				
1,1-Dichloroethane	103	110	63-142	16	30				
1,2-Dichloroethane	94	102	68-131	18	30				
1,1-Dichloroethene	114	121	61-149	16	30				
cis-1,2-Dichloroethene	95	103	60-136	18	30				
trans-1,2-Dichloroethene	102	111	59-142	18	30				
1,2-Dichloropropane	100	106	62-135	16	30				
1,3-Dichloropropane	95	103	58-129	18	30				
2,2-Dichloropropane	101	110	53-147	18	30				
1,1-Dichloropropene	95	102	54-145	17	30				
cis-1,3-Dichloropropene	76	84	51-131	20	30				
trans-1,3-Dichloropropene	82	91	49-129	20	30				
Ethylbenzene	92	96	44-141	14	30				
Freon 113	114	124	56-156	18	30				
Freon 133a	77	87	70-130	16	30				
Hexachlorobutadiene	69	74	10-155	18	30				
2-Hexanone	53	64	32-160	27	30				
Isopropylbenzene	85	86	38-144	12	30				
p-Isopropyltoluene	85	88	29-152	13	30				
Methyl Tertiary Butyl Ether	83	94	55-129	23	30				
4-Methyl-2-pentanone	56	65	46-139	26	30				
Methylene Chloride	99	108	61-141	18	30				
n-Propylbenzene	94	97	39-157	13	30				
Styrene	93	96	35-134	13	30				
1,1,1,2-Tetrachloroethane	100	106	52-130	15	30				
1,1,2,2-Tetrachloroethane	86	98	40-152	22	30				
Tetrachloroethene	94	97	42-149	12	30				
Toluene	100	106	50-146	15	30				
1,2,3-Trichlorobenzene	63	72	10-140	24	30				
1,2,4-Trichlorobenzene	54	62	10-136	23	30				

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,1-Trichloroethane	99	106	64-142	17	30				
1,1,2-Trichloroethane	97	106	54-139	18	30				
Trichloroethene	91	97	53-144	17	30				
Trichlorofluoromethane	99	103	47-163	14	30				
1,2,3-Trichloropropane	80	93	45-154	24	30				
1,2,4-Trimethylbenzene	86	90	37-149	14	30				
1,3,5-Trimethylbenzene	86	89	38-150	14	30				
Vinyl Chloride	93	101	50-154	18	30				
m+p-Xylene	98	104	44-137	16	30				
o-Xylene	83	88	42-137	16	30				
Batch number: E110352AA	Sample number(s): 6197577-6197583,6197585-6197588 UNSPK: 6197581								
1,4-Dioxane	80	88	70-130	12	30				
Batch number: 11037SLA026	Sample number(s): 6197577-6197583,6197585-6197588 UNSPK: 6197581								
Acenaphthene	88	92	75-115	3	30				
Acenaphthylene	94	97	81-110	3	30				
Aniline	69	61	35-95	11	30				
Anthracene	93	93	75-115	0	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	101	99	65-122	2	30				
Benzo(a)pyrene	98	99	57-126	1	30				
Benzo(b)fluoranthene	98	99	59-125	1	30				
Benzo(g,h,i)perylene	104	104	59-127	0	30				
Benzo(k)fluoranthene	98	98	56-132	0	30				
Benzoic acid	92	96	10-173	5	30				
Benzyl alcohol	95	91	67-115	4	30				
4-Bromophenyl-phenylether	86	88	67-129	2	30				
Butylbenzylphthalate	111	106	73-134	5	30				
Di-n-butylphthalate	94	93	67-123	1	30				
Carbazole	96	94	64-120	2	30				
4-Chloro-3-methylphenol	90	94	76-110	4	30				
4-Chloroaniline	58	59	23-95	1	30				
bis(2-Chloroethoxy)methane	87	90	75-104	4	30				
bis(2-Chloroethyl)ether	91	89	60-116	2	30				
bis(2-Chloroisopropyl)ether	95	93	55-142	3	30				
2-Chloronaphthalene	71	78	50-141	10	30				
2-Chlorophenol	94	97	73-121	2	30				
4-Chlorophenyl-phenylether	89	90	80-109	1	30				
Chrysene	105	104	62-128	1	30				
Dibenz(a,h)anthracene	104	104	65-125	1	30				
Dibenzofuran	94	92	71-112	2	30				
1,2-Dichlorobenzene	82	86	66-108	5	30				
1,3-Dichlorobenzene	80	78	63-109	3	30				
1,4-Dichlorobenzene	84	82	70-100	2	30				
3,3'-Dichlorobenzidine	63	63	16-119	0	30				
2,4-Dichlorophenol	89	93	78-117	5	30				
Diethylphthalate	97	97	66-118	0	30				
2,4-Dimethylphenol	87	95	78-110	8	30				
3,5-Dimethylphenol	99	110	70-130	11	30				
Dimethylphthalate	94	94	64-118	1	30				
4,6-Dinitro-2-methylphenol	84	85	24-116	1	30				
2,4-Dinitrophenol	79	78	20-143	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	98	98	73-113	0	30				
2,6-Dinitrotoluene	95	95	69-123	0	30				
1,2-Diphenylhydrazine	103	103	71-129	0	30				
bis(2-Ethylhexyl)phthalate	108	106	63-122	2	30				
Fluoranthene	94	93	73-112	1	30				
Fluorene	90	93	77-111	3	30				
Hexachlorobenzene	93	90	77-114	3	30				
Hexachlorobutadiene	74	78	62-120	5	30				
Hexachlorocyclopentadiene	65	69	10-153	7	30				
Hexachloroethane	78	79	57-109	2	30				
Indeno(1,2,3-cd)pyrene	97	98	61-126	1	30				
Isophorone	87	90	73-102	3	30				
1-Methylnaphthalene	87	92	73-112	6	30				
2-Methylnaphthalene	82	87	76-114	6	30				
2-Methylphenol	95	99	75-111	4	30				
4-Methylphenol	91	94	71-111	3	30				
Naphthalene	84	91	72-116	9	30				
2-Nitroaniline	98	95	67-125	3	30				
3-Nitroaniline	91	92	59-122	1	30				
4-Nitroaniline	78	75	52-112	4	30				
Nitrobenzene	90	94	72-106	5	30				
2-Nitrophenol	86	94	74-115	9	30				
4-Nitrophenol	88	88	54-113	0	30				
N-Nitroso-di-n-propylamine	91	92	60-116	1	30				
N-Nitrosodimethylamine	98	89	47-116	9	30				
N-Nitrosodiphenylamine	96	94	86-145	2	30				
Di-n-octylphthalate	86	89	56-126	4	30				
Pentachlorophenol	80	83	28-127	3	30				
Phenanthrene	94	94	65-125	0	30				
Phenol	101	105	58-126	4	30				
Pyrene	107	104	74-126	3	30				
1,2,4-Trichlorobenzene	81	84	72-115	4	30				
2,4,5-Trichlorophenol	96	95	78-109	1	30				
2,4,6-Trichlorophenol	91	93	77-115	2	30				
Batch number: 11037SLB026	Sample number(s): 6197577-6197583,6197585-6197588 UNSPK: 6197581								
Acenaphthene	91	93	63-105	2	30				
Acenaphthylene	92	92	67-114	0	30				
Anthracene	99	95	60-122	3	30				
Benzo(a)anthracene	114	112	59-128	2	30				
Benzo(a)pyrene	93	96	45-138	4	30				
Benzo(b)fluoranthene	100	103	43-155	3	30				
Benzo(g,h,i)perylene	101	105	33-141	4	30				
Benzo(k)fluoranthene	95	101	42-144	6	30				
Butylbenzylphthalate	126	119	57-173	6	30				
Di-n-butylphthalate	113	108	65-148	5	30				
Chrysene	107	105	48-134	2	30				
Dibenz(a,h)anthracene	97	99	22-133	2	30				
Diethylphthalate	101	97	70-136	4	30				
Dimethylphthalate	104	105	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	124	113	39-167	8	30				
Fluoranthene	103	105	26-166	2	30				
Fluorene	100	100	66-122	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	97	99	21-143	3	30				
1-Methylnaphthalene	91	93	72-123	2	30				
2-Methylnaphthalene	83	84	64-103	1	30				
Naphthalene	92	93	61-102	1	30				
N-Nitrosodimethylamine	91	95	48-113	4	30				
Di-n-octylphthalate	109	113	40-192	3	30				
Phenanthrene	97	97	12-165	1	30				
Pyrene	107	104	15-153	2	30				
Batch number: 110390023A	Sample number(s): 6197579-6197580 UNSPK: P196805								
6a Perchlorate EPA 6850	104	103	80-120	1	20				
Batch number: 110350007A	Sample number(s): 6197577-6197583,6197585-6197588 UNSPK: 6197581								
PCB-1016	91	144	29-146	45	50				
PCB-1260	247*	267*	39-149	8	50				
Batch number: 110351026001A	Sample number(s): 6197577-6197588 UNSPK: 6197581 BKG: 6197581								
Antimony	48*	46*	75-125	1	20	0.0982 J	0.111 J	13 (1)	20
Arsenic	100	112	75-125	5	20	3.89	4.45	13	20
Beryllium	86	91	75-125	6	20	0.494	0.522	6	20
Cadmium	102	92	75-125	6	20	0.137	0.106	26* (1)	20
Chromium	96	93	75-125	0	20	15.5	16.7	8	20
Cobalt	89	84	75-125	2	20	4.64	4.45	4	20
Copper	94	86	75-125	3	20	7.36	7.36	0	20
Lead	99	104	75-125	3	20	4.36	4.46	2	20
Nickel	98	89	75-125	3	20	9.64	9.63	0	20
Silver	99	100	75-125	4	20	0.0176 J	0.0252 J	35* (1)	20
Thallium	99	96	75-125	0	20	0.223	0.211	6 (1)	20
Vanadium	105	97	75-125	1	20	27.9	29.9	7	20
Zinc	72*	77	75-125	1	20	38.3	37.2	3	20
Batch number: 110351026001B	Sample number(s): 6197577-6197588 UNSPK: 6197581 BKG: 6197581								
Selenium	99	99	75-125	3	20	0.113 J	0.142 J	23* (1)	20
Batch number: 110351026001C	Sample number(s): 6197577-6197588 UNSPK: 6197581 BKG: 6197581								
Molybdenum	95	94	75-125	2	20	0.540	0.570	5	20
Batch number: 110351026001D	Sample number(s): 6197577-6197588 UNSPK: 6197581 BKG: 6197581								
Barium	138 (2)	159 (2)	75-125	3	20	77.9	79.2	2	20
Batch number: 110355708002	Sample number(s): 6197577-6197588 UNSPK: 6197581 BKG: 6197581								
Aluminum	2451 (2)	2710 (2)	75-125	3	20	13,500	13,700	2	20
Boron	93	92	84-115	0	20	1.53 J	1.29 J	16 (1)	20
Calcium	189 (2)	186 (2)	75-125	0	20	1,840	1,860	1	20
Iron	2864 (2)	2285 (2)	75-125	3	20	15,500	15,700	1	20
Lithium	101	101	82-114	0	20	14.3	14.6	2	20
Magnesium	323 (2)	330 (2)	75-125	0	20	2,880	2,990	4	20
Manganese	160 (2)	100 (2)	75-125	9	20	260	255	2	20
Phosphorus	115	110	75-125	2	20	191	182	5	20
Potassium	136*	132*	75-125	1	20	2,300	2,240	2	20
Sodium	97	97	75-125	0	20	75.4 J	75.9 J	1 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Strontium	96	95	75-115	1	20	18.0		18.2		1	20
Tin	92	92	80-110	0	20	2.50	J	2.43	J	3 (1)	20
Titanium	341 (2)	311 (2)	75-125	2	20	1,030		1,040		1	20
Zirconium	94	93	75-125	0	20	2.55	J	2.70	J	6 (1)	20
Batch number: 110355711002	Sample number(s): 6197577-6197588 UNSPK: 6197581 BKG: 6197581										
Mercury	102	100	65-135	2	20	0.0027	U	0.0034	J	200* (1)	20
Batch number: 11042621201A	Sample number(s): 6197577-6197582,6197584-6197588 UNSPK: 6197581 BKG: 6197581										
7a Perchlorate EPA 314.0	87		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11042621202A	Sample number(s): 6197577-6197582,6197584-6197588 UNSPK: 6197581 BKG: 6197581										
11a Anions by 300.0 - Fluoride	44*		80-120			1.5		0.92	J	48* (1)	20
Batch number: 11050243201A	Sample number(s): 6197577-6197582,6197584-6197588 UNSPK: 6197581 BKG: 6197581										
3a Cr VI by EPA 7199	94		75-125			0.43	J	0.48	J	9 (1)	20
Batch number: 11035039402B	Sample number(s): 6197577-6197580 BKG: P197571										
22a pH by 9045C						7.07		7.07		0	1
Batch number: 11035039403A	Sample number(s): 6197581,6197584-6197588 BKG: 6197581										
22a pH by 9045C						7.10		7.10		0	1
Batch number: 11035182101B	Sample number(s): 6197577-6197580 BKG: P197571										
32a OR Potential						462		463		0	6
Batch number: 11035182102A	Sample number(s): 6197581,6197584-6197588 BKG: 6197581										
32a OR Potential						386		393		2	6
Batch number: 11041162401A	Sample number(s): 6197577-6197588 BKG: 6197581										
28a Moisture Content by 160.3						13.2		12.4		6	20
28a Moisture Content by 160.3						13.2		12.4		6	20
28a Moisture Content by 160.3						13.2		12.4		6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6197577	115	112	100	86
6197578	114	111	102	86
6197579	115	117	101	87
6197580	114	110	102	84
6197581	116	114	101	85
6197582	101	102	110	107
6197583	101	100	110	106

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Surrogate Quality Control

6197585	114	115	100	85
6197586	115	115	99	85
6197587	114	108	100	85
6197588	116	113	101	85
Blank	112	111	102	85
LCS	101	100	110	106
MS	101	102	110	107
MSD	101	100	110	106
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110352AA

	Toluene-d8
6197577	96
6197578	96
6197579	95
6197580	96
6197581	95
6197582	95
6197583	95
6197585	95
6197586	95
6197587	95
6197588	95
Blank	96
LCS	96
LCSD	96
MS	95
MSD	95
Limits:	70-130

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11037SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6197577	93	92	84	80	86	96
6197578	89	92	82	81	88	94
6197579	91	93	68	85	89	98
6197580	87	88	65	83	87	98
6197581	92	93	92	83	89	95
6197582	95	95	99	83	89	94
6197583	99	98	97	90	90	91
6197585	86	92	55	82	84	99
6197586	95	97	62	82	85	94
6197587	85	89	65	81	84	102
6197588	86	89	68	80	87	93
Blank	88	89	94	84	91	99
LCS	100	100	96	89	90	98
MS	95	95	99	83	89	94
MSD	99	98	97	90	90	91
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11037SLB026

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231533
Reported: 02/23/11 at 02:48 PM

Surrogate Quality Control

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6197577	103	96	114
6197578	96	89	105
6197579	92	85	101
6197580	98	92	112
6197581	108	97	110
6197582	104	94	111
6197583	109	99	108
6197585	93	88	106
6197586	98	90	103
6197587	98	91	104
6197588	102	93	108
Blank	96	91	113
LCS	100	90	107
MS	104	94	111
MSD	109	99	108
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110350007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6197577	98	162*
6197578	114	177*
6197579	139	189*
6197580	121	184*
6197581	120	184*
6197582	107	166*
6197583	109	169*
6197585	110	176*
6197586	136	218*
6197587	111	169*
6197588	149*	189*
Blank	71	91
LCS	109	176*
LCSD	80	103
MS	107	166*
MSD	109	169*
Limits:	53-139	45-120

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13013 1231533 6197577-88

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: [signature] [signature]

						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tarphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUPLICATE
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	5-Encores									X	X	X											FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	4-Encores									X	X												FIELD DUPLICATE
SL-175-SA5B-SB-4.0-5.0	1.31.2011	1606	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-175-SA5B-SB-4.5	1.31.2011	1602	SOIL	NONE	4-Encores									X	X												
SL-176-SA5B-SB-4.0-5.0	1.31.2011	1504	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-176-SA5B-SB-4.5	1.31.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-177-SA5B-SB-4.0-5.0	1.31.2011	1404	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-177-SA5B-SB-4.5	1.31.2011	1400	SOIL	NONE	4-Encores									X	X												
SL-182-SA5B-SB-4.0-5.0MS	1.31.2011	0937	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-182-SA5B-SB-4.5MS	1.31.2011	0937	SOIL	NONE	15 Encores									X	X	X											MS/MSD
SL-195-SA5B-SB-4.0-5.0MS	1.31.2011	0930	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X															MS/MSD
SL-195-SA5B-SB-4.5MS	1.31.2011	0927	SOIL	NONE	12-Encores									X	X												MS/MSD
SL-197-SA5B-SB-4.0-5.0	1.31.2011	1451	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-197-SA5B-SB-4.5	1.31.2011	1448	SOIL	NONE	4-Encores									X	X												
SL-198-SA5B-SB-4.0-5.0	1.31.2011	1549	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-198-SA5B-SB-4.5	1.31.2011	1544	SOIL	NONE	4-Encores									X	X												
SL-199-SA5B-SB-4.0-5.0	1.31.2011	1243	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-199-SA5B-SB-4.5	1.31.2011	1240	SOIL	NONE	4-Encores									X	X												
SL-200-SA5B-SB-4.0-5.0	1.31.2011	1104	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-200-SA5B-SB-4.5	1.31.2011	1100	SOIL	NONE	4-Encores									X	X												
SL-204-SA5B-SB-4.0-5.0	1.31.2011	1123	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-204-SA5B-SB-4.5	1.31.2011	1119	SOIL	NONE	5-Encores									X	X	X											
TB-013111	1.31.2011	1230	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
[signature]	1/31/2011 / 17:00	[signature] LLI 2/3/11 945	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1431 9940, ...9950, ...9961	No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/03/2011
Group Number: 1231534
SDG: DX044
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP21-SA5B-QC-013111 Soil	6197589
SL-182-SA5B-SB-4.0-5.0 Soil	6197590
SL-182-SA5B-SB-4.0-5.0MS Soil	6197591
SL-182-SA5B-SB-4.0-5.0MSD Soil	6197592
SL-204-SA5B-SB-4.0-5.0 Soil	6197593

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197589
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP21 SDG#: DX044-18FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197589
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP21 SDG#: DX044-18FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0168 JBQ	0.00889	1.14	1
11031	12378-PeCDD	40321-76-4	0.0455 JBQ	0.0104	5.70	1
11031	123478-HxCDD	39227-28-6	0.0232 JBQ	0.0115	5.70	1
11031	123678-HxCDD	57653-85-7	0.0389 JBQ	0.0117	5.70	1
11031	123789-HxCDD	19408-74-3	0.0521 JBQ	0.0109	5.70	1
11031	1234678-HpCDD	35822-46-9	0.193 JBQ	0.0147	5.70	1
11031	OCDD	3268-87-9	0.577 JB	0.0225	11.4	1
11031	2378-TCDF	51207-31-9	0.0226 JBQ	0.00867	1.14	1
11031	12378-PeCDF	57117-41-6	0.0630 JBQ	0.00684	5.70	1
11031	23478-PeCDF	57117-31-4	0.0967 JBQ	0.00741	5.70	1
11031	123478-HxCDF	70648-26-9	0.0903 JBQ	0.0166	5.70	1
11031	123678-HxCDF	57117-44-9	0.0569 JB	0.0116	5.70	1
11031	123789-HxCDF	72918-21-9	0.0468 JBQ	0.0122	5.70	1
11031	234678-HxCDF	60851-34-5	0.0871 JB	0.0103	5.70	1
11031	1234678-HpCDF	67562-39-4	0.276 JB	0.0105	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0544 JBQ	0.0147	5.70	1
11031	OCDF	39001-02-0	0.245 JBQ	0.0169	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197589
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP21 SDG#: DX044-18FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP21-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP21-SA5B-QC-013111

LLI Sample # SW 6197589
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:49

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP21 SDG#: DX044-18FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 09:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197590
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-182-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197590
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0125 JB	0.0107	1.14	1
11031	12378-PeCDD	40321-76-4	0.0198 JB	0.0120	5.71	1
11031	123478-HxCDD	39227-28-6	0.0171 JBQ	0.0127	5.71	1
11031	123678-HxCDD	57653-85-7	0.0324 JBQ	0.0122	5.71	1
11031	123789-HxCDD	19408-74-3	0.0408 JBQ	0.0113	5.71	1
11031	1234678-HpCDD	35822-46-9	0.261 JB	0.0175	5.71	1
11031	OCDD	3268-87-9	1.21 JB	0.0258	11.4	1
11031	2378-TCDF	51207-31-9	0.0108 U	0.0108	1.14	1
11031	12378-PeCDF	57117-41-6	0.0286 JB	0.00799	5.71	1
11031	23478-PeCDF	57117-31-4	0.0713 JBQ	0.00822	5.71	1
11031	123478-HxCDF	70648-26-9	0.0955 JB	0.0245	5.71	1
11031	123678-HxCDF	57117-44-9	0.0708 JB	0.0168	5.71	1
11031	123789-HxCDF	72918-21-9	0.0439 JBQ	0.0132	5.71	1
11031	234678-HxCDF	60851-34-5	0.0763 JBQ	0.0110	5.71	1
11031	1234678-HpCDF	67562-39-4	0.361 JB	0.0160	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0418 JBQ	0.0147	5.71	1
11031	OCDF	39001-02-0	0.248 JBQ	0.0211	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-182-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197590
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197590
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 09:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197591
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-182-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197591
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.0	B	0.0260	1.14	1
11031	12378-PeCDD	40321-76-4	107	B	0.0390	5.71	1
11031	123478-HxCDD	39227-28-6	107	B	0.0561	5.71	1
11031	123678-HxCDD	57653-85-7	106	B	0.0573	5.71	1
11031	123789-HxCDD	19408-74-3	106	B	0.0527	5.71	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0539	5.71	1
11031	OCDD	3268-87-9	208	B	0.0374	11.4	1
11031	2378-TCDF	51207-31-9	22.5	B	0.0355	1.14	1
11031	12378-PeCDF	57117-41-6	103	B	0.0324	5.71	1
11031	23478-PeCDF	57117-31-4	105	B	0.0347	5.71	1
11031	123478-HxCDF	70648-26-9	109	B	0.0809	5.71	1
11031	123678-HxCDF	57117-44-9	109	B	0.0672	5.71	1
11031	123789-HxCDF	72918-21-9	110	B	0.0836	5.71	1
11031	234678-HxCDF	60851-34-5	109	B	0.0712	5.71	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0484	5.71	1
11031	1234789-HpCDF	55673-89-7	107	B	0.0661	5.71	1
11031	OCDF	39001-02-0	213	B	0.0406	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	54	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197591
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197591
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 13:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197592
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-182-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197592
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.8	B	0.0336	1.14	1
11031	12378-PeCDD	40321-76-4	106	B	0.0511	5.71	1
11031	123478-HxCDD	39227-28-6	106	B	0.0727	5.71	1
11031	123678-HxCDD	57653-85-7	105	B	0.0742	5.71	1
11031	123789-HxCDD	19408-74-3	105	B	0.0702	5.71	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0566	5.71	1
11031	OCDD	3268-87-9	212	B	0.0400	11.4	1
11031	2378-TCDF	51207-31-9	22.1	B	0.0382	1.14	1
11031	12378-PeCDF	57117-41-6	102	B	0.0387	5.71	1
11031	23478-PeCDF	57117-31-4	105	B	0.0424	5.71	1
11031	123478-HxCDF	70648-26-9	108	B	0.0896	5.71	1
11031	123678-HxCDF	57117-44-9	107	B	0.0727	5.71	1
11031	123789-HxCDF	72918-21-9	108	B	0.0832	5.71	1
11031	234678-HxCDF	60851-34-5	110	B	0.0804	5.71	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0424	5.71	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0567	5.71	1
11031	OCDF	39001-02-0	213	B	0.0498	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	57	24 - 185
13C12-23478-PeCDF	51	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	54	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197592
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-182-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5B-SB-4.0-5.0

LLI Sample # SW 6197592
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:37

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS182 SDG#: DX044-19MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/17/2011 14:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197593
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS204 SDG#: DX044-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197593
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS204 SDG#: DX044-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0254	JBQ	0.0119	1.15	1
11031	12378-PeCDD	40321-76-4	0.0997	JB	0.0158	5.75	1
11031	123478-HxCDD	39227-28-6	0.182	JBQ	0.0478	5.75	1
11031	123678-HxCDD	57653-85-7	0.324	JB	0.0423	5.75	1
11031	123789-HxCDD	19408-74-3	0.321	JB	0.0323	5.75	1
11031	1234678-HpCDD	35822-46-9	7.75	B	0.0476	5.75	1
11031	OCDD	3268-87-9	94.1	B	0.0358	11.5	1
11031	2378-TCDF	51207-31-9	0.0217	U	0.0217	1.15	1
11031	12378-PeCDF	57117-41-6	0.0148	U	0.0148	5.75	1
11031	23478-PeCDF	57117-31-4	0.0904	JB	0.0176	5.75	1
11031	123478-HxCDF	70648-26-9	0.421	JB	0.0514	5.75	1
11031	123678-HxCDF	57117-44-9	0.124	JBQ	0.0343	5.75	1
11031	123789-HxCDF	72918-21-9	0.172	JB	0.0182	5.75	1
11031	234678-HxCDF	60851-34-5	0.103	JB	0.0177	5.75	1
11031	1234678-HpCDF	67562-39-4	1.38	JB	0.0468	5.75	1
11031	1234789-HpCDF	55673-89-7	0.135	JB	0.0313	5.75	1
11031	OCDF	39001-02-0	2.56	JB	0.0303	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	53	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	37	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197593
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS204 SDG#: DX044-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5B-SB-4.0-5.0

LLI Sample # SW 6197593
LLI Group # 1231534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:23

Submitted: 02/03/2011 09:45
Reported: 03/16/2011 09:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS204 SDG#: DX044-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11035001	02/21/2011 17:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11035001	02/04/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401A	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231534
Reported: 03/16/11 at 09:59 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11052162401A	Sample number(s): 6197589-6197593								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11035001	Sample number(s): 6197589-6197593								
2378-TCDD	0.0165 J	0.00520	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0235 J	0.00550	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0267 J	0.00720	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0315 J	0.00730	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0362 J	0.00700	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.217 J	0.00960	5.00	ng/kg	99		70-140		
OCDD	0.572 J	0.0113	10.0	ng/kg	99		78-144		
2378-TCDF	0.0175 J	0.00520	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0337 J	0.00390	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0768 J	0.00390	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0657 J	0.00960	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0499 J	0.00800	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0654 J	0.00960	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0694 J	0.00830	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.231 J	0.00730	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0469 J	0.0102	5.00	ng/kg	99		78-138		
OCDF	0.291 J	0.0113	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11052162401A	Sample number(s): 6197589-6197593 BKG: P197571								
28a Moisture Content by 160.3						12.4	12.4	0	20
Batch number: 11035001	Sample number(s): 6197589-6197593 UNSPK: 6197590								
2378-TCDD	92	91	67-158	1	25				
12378-PeCDD	94	92	70-142	1	25				
123478-HxCDD	94	92	70-164	2	25				
123678-HxCDD	93	92	76-134	1	25				
123789-HxCDD	93	92	64-162	2	25				
1234678-HpCDD	91	91	70-140	0	25				
OCDD	91	92	78-144	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231534
Reported: 03/16/11 at 09:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	99	97	75-158	2	25				
12378-PeCDF	90	90	80-134	1	25				
23478-PeCDF	92	92	68-160	0	25				
123478-HxCDF	95	95	72-134	0	25				
123678-HxCDF	96	93	84-130	2	25				
123789-HxCDF	96	94	78-130	2	25				
234678-HxCDF	96	96	70-156	1	25				
1234678-HpCDF	93	94	82-122	0	25				
1234789-HpCDF	94	94	78-138	1	25				
OCDF	93	93	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11035001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6197589	86	78	50	71	79	73
6197590	68	60	29	42	61	58
6197591	62	54	51	59	58	52
6197592	59	51	49	59	54	57
6197593	78	70	27	38	79	77
Blank	85	79	77	90	83	83
MS	62	54	51	59	58	52
MSD	59	51	49	59	54	57
OPR	74	69	54	73	68	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6197589	80	65	59	98	87	85
6197590	43	53	46	84	67	61
6197591	59	48	44	75	65	67
6197592	65	55	54	71	61	67
6197593	37	64	50	81	73	53
Blank	92	77	71	103	88	88
MS	59	48	44	75	65	67
MSD	65	55	54	71	61	67
OPR	73	59	55	91	77	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6197589	88	88	87	81	78	91

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231534
Reported: 03/16/11 at 09:59 AM

Surrogate Quality Control

6197590	65	69	67	60	60	68
6197591	67	67	65	59	52	60
6197592	66	66	71	69	51	57
6197593	60	77	67	64	80	86
Blank	90	90	91	84	76	88
MS	67	67	65	59	52	60
MSD	66	66	71	69	51	57
OPR	76	76	75	70	65	80
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1231534 6197589-93

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Ken Hoffman, David Adler

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUPLICATE
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	5-Encores									X	X	X											FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	4-Encores									X	X												FIELD DUPLICATE
SL-175-SA5B-SB-4.0-5.0	1.31.2011	1606	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-175-SA5B-SB-4.5	1.31.2011	1602	SOIL	NONE	4-Encores									X	X												
SL-176-SA5B-SB-4.0-5.0	1.31.2011	1504	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-176-SA5B-SB-4.5	1.31.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-177-SA5B-SB-4.0-5.0	1.31.2011	1404	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-177-SA5B-SB-4.5	1.31.2011	1400	SOIL	NONE	4-Encores									X	X												
SL-182-SA5B-SB-4.0-5.0MS	1.31.2011	0937	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-182-SA5B-SB-4.5MS	1.31.2011	0937	SOIL	NONE	15 Encores									X	X	X											MS/MSD
SL-195-SA5B-SB-4.0-5.0MS	1.31.2011	0930	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X															MS/MSD
SL-195-SA5B-SB-4.5MS	1.31.2011	0927	SOIL	NONE	12-Encores									X	X												MS/MSD
SL-197-SA5B-SB-4.0-5.0	1.31.2011	1451	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-197-SA5B-SB-4.5	1.31.2011	1448	SOIL	NONE	4-Encores									X	X												
SL-198-SA5B-SB-4.0-5.0	1.31.2011	1549	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-198-SA5B-SB-4.5	1.31.2011	1544	SOIL	NONE	4-Encores									X	X												
SL-199-SA5B-SB-4.0-5.0	1.31.2011	1243	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-199-SA5B-SB-4.5	1.31.2011	1240	SOIL	NONE	4-Encores									X	X												
SL-200-SA5B-SB-4.0-5.0	1.31.2011	1104	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-200-SA5B-SB-4.5	1.31.2011	1100	SOIL	NONE	4-Encores									X	X												
SL-204-SA5B-SB-4.0-5.0	1.31.2011	1123	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-204-SA5B-SB-4.5	1.31.2011	1119	SOIL	NONE	5-Encores									X	X	X											
TB-013111	1.31.2011	1230	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 1/31/2011 / 17:00 — Received for Laboratory by: (Signature) Lli 2/3/11 945

Received by: (Signature) — Date/Time — Airbill No.(s): 8595 1431 9940, ...9950, ...9961

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/03/2011
Group Number: 1231548
SDG: DX046
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP22-SA5B-QC-013111 Soil	6197630
SL-175-SA5B-SB-4.0-5.0 Soil	6197631
SL-176-SA5B-SB-4.0-5.0 Soil	6197632
SL-177-SA5B-SB-4.0-5.0 Soil	6197633
SL-195-SA5B-SB-4.0-5.0 Soil	6197634
SL-195-SA5B-SB-4.0-5.0MS Soil	6197635
SL-195-SA5B-SB-4.0-5.0MSD Soil	6197636
SL-197-SA5B-SB-4.0-5.0 Soil	6197637
SL-198-SA5B-SB-4.0-5.0 Soil	6197638
SL-199-SA5B-SB-4.0-5.0 Soil	6197639
SL-200-SA5B-SB-4.0-5.0 Soil	6197640

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197630
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP22 SDG#: DX046-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197630
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP22 SDG#: DX046-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	U	0.0344	1.14	1
11031	12378-PeCDD	40321-76-4	0.0288	U	0.0288	5.69	1
11031	123478-HxCDD	39227-28-6	0.0237	U	0.0237	5.69	1
11031	123678-HxCDD	57653-85-7	0.0781	JBQ	0.0244	5.69	1
11031	123789-HxCDD	19408-74-3	0.145	JB	0.0222	5.69	1
11031	1234678-HpCDD	35822-46-9	0.229	JBQ	0.0409	5.69	1
11031	OCDD	3268-87-9	0.545	JBQ	0.0360	11.4	1
11031	2378-TCDF	51207-31-9	0.0325	U	0.0325	1.14	1
11031	12378-PeCDF	57117-41-6	0.0147	U	0.0147	5.69	1
11031	23478-PeCDF	57117-31-4	0.0312	JBQ	0.0167	5.69	1
11031	123478-HxCDF	70648-26-9	0.0278	JB	0.0172	5.69	1
11031	123678-HxCDF	57117-44-9	0.0190	JBQ	0.0122	5.69	1
11031	123789-HxCDF	72918-21-9	0.0783	JBQ	0.0190	5.69	1
11031	234678-HxCDF	60851-34-5	0.0159	JBQ	0.0142	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0468	JB	0.0117	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0315	U	0.0315	5.69	1
11031	OCDF	39001-02-0	0.123	JBQ	0.0981	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	33	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197630
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP22 SDG#: DX046-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197630
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP22 SDG#: DX046-12FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 17:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197631
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS175 SDG#: DX046-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197631
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS175 SDG#: DX046-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0404 JBQ	0.0260	1.14	1
11031	12378-PeCDD	40321-76-4	0.0462 JBQ	0.0254	5.72	1
11031	123478-HxCDD	39227-28-6	0.0599 JBQ	0.0354	5.72	1
11031	123678-HxCDD	57653-85-7	0.227 JB	0.0365	5.72	1
11031	123789-HxCDD	19408-74-3	0.195 JB	0.0334	5.72	1
11031	1234678-HpCDD	35822-46-9	6.17 B	0.0565	5.72	1
11031	OCDD	3268-87-9	57.5 B	0.0452	11.4	1
11031	2378-TCDF	51207-31-9	0.0275 U	0.0275	1.14	1
11031	12378-PeCDF	57117-41-6	0.0457 JB	0.0152	5.72	1
11031	23478-PeCDF	57117-31-4	0.102 JBQ	0.0183	5.72	1
11031	123478-HxCDF	70648-26-9	0.216 JBQ	0.0257	5.72	1
11031	123678-HxCDF	57117-44-9	0.0374 JB	0.0190	5.72	1
11031	123789-HxCDF	72918-21-9	0.0590 JBQ	0.0315	5.72	1
11031	234678-HxCDF	60851-34-5	0.0400 JBQ	0.0247	5.72	1
11031	1234678-HpCDF	67562-39-4	0.200 JB	0.0146	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0409 JBQ	0.0382	5.72	1
11031	OCDF	39001-02-0	0.531 JBQ	0.0805	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197631
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS175 SDG#: DX046-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197631
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS175 SDG#: DX046-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 18:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197632
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS176 SDG#: DX046-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197632
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS176 SDG#: DX046-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0324	U	0.0324	1.16	1
11031	12378-PeCDD	40321-76-4	0.0251	U	0.0251	5.78	1
11031	123478-HxCDD	39227-28-6	0.0319	U	0.0319	5.78	1
11031	123678-HxCDD	57653-85-7	0.0833	JBQ	0.0312	5.78	1
11031	123789-HxCDD	19408-74-3	0.0836	JB	0.0321	5.78	1
11031	1234678-HpCDD	35822-46-9	1.18	JBQ	0.0540	5.78	1
11031	OCDD	3268-87-9	9.01	JB	0.0364	11.6	1
11031	2378-TCDF	51207-31-9	0.0440	U	0.0440	1.16	1
11031	12378-PeCDF	57117-41-6	0.0729	JBQ	0.0179	5.78	1
11031	23478-PeCDF	57117-31-4	0.132	JB	0.0214	5.78	1
11031	123478-HxCDF	70648-26-9	0.0808	JBQ	0.0199	5.78	1
11031	123678-HxCDF	57117-44-9	0.0330	JBQ	0.0138	5.78	1
11031	123789-HxCDF	72918-21-9	0.0438	JBQ	0.0228	5.78	1
11031	234678-HxCDF	60851-34-5	0.0438	JBQ	0.0169	5.78	1
11031	1234678-HpCDF	67562-39-4	0.154	JB	0.0111	5.78	1
11031	1234789-HpCDF	55673-89-7	0.0379	JBQ	0.0333	5.78	1
11031	OCDF	39001-02-0	0.351	JBQ	0.0773	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197632
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS176 SDG#: DX046-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197632
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS176 SDG#: DX046-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 19:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197633
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS177 SDG#: DX046-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197633
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS177 SDG#: DX046-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0230 U	0.0230	1.17	1
11031	12378-PeCDD	40321-76-4	0.0918 JBQ	0.0196	5.84	1
11031	123478-HxCDD	39227-28-6	0.0254 JBQ	0.0221	5.84	1
11031	123678-HxCDD	57653-85-7	0.0437 JBQ	0.0216	5.84	1
11031	123789-HxCDD	19408-74-3	0.0545 JBQ	0.0210	5.84	1
11031	1234678-HpCDD	35822-46-9	0.192 JB	0.0286	5.84	1
11031	OCDD	3268-87-9	0.654 JB	0.0287	11.7	1
11031	2378-TCDF	51207-31-9	0.0255 U	0.0255	1.17	1
11031	12378-PeCDF	57117-41-6	0.0874 JBQ	0.0117	5.84	1
11031	23478-PeCDF	57117-31-4	0.0948 JB	0.0134	5.84	1
11031	123478-HxCDF	70648-26-9	0.0668 JB	0.0124	5.84	1
11031	123678-HxCDF	57117-44-9	0.0470 JBQ	0.00841	5.84	1
11031	123789-HxCDF	72918-21-9	0.0576 JBQ	0.0157	5.84	1
11031	234678-HxCDF	60851-34-5	0.0317 JBQ	0.0114	5.84	1
11031	1234678-HpCDF	67562-39-4	0.0437 JB	0.00666	5.84	1
11031	1234789-HpCDF	55673-89-7	0.0266 JB	0.0180	5.84	1
11031	OCDF	39001-02-0	0.232 JBQ	0.0665	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197633
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS177 SDG#: DX046-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197633
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS177 SDG#: DX046-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 20:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197634
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197634
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	U	0.0244	1.15	1
11031	12378-PeCDD	40321-76-4	0.0769	JB	0.0184	5.76	1
11031	123478-HxCDD	39227-28-6	0.0224	U	0.0224	5.76	1
11031	123678-HxCDD	57653-85-7	0.128	JBQ	0.0232	5.76	1
11031	123789-HxCDD	19408-74-3	0.198	JB	0.0225	5.76	1
11031	1234678-HpCDD	35822-46-9	0.172	JB	0.0267	5.76	1
11031	OCDD	3268-87-9	0.758	JB	0.0238	11.5	1
11031	2378-TCDF	51207-31-9	0.0221	U	0.0221	1.15	1
11031	12378-PeCDF	57117-41-6	0.132	JBQ	0.00979	5.76	1
11031	23478-PeCDF	57117-31-4	0.0997	JBQ	0.0121	5.76	1
11031	123478-HxCDF	70648-26-9	0.0447	JB	0.0142	5.76	1
11031	123678-HxCDF	57117-44-9	0.0487	JB	0.0101	5.76	1
11031	123789-HxCDF	72918-21-9	0.145	JBQ	0.0180	5.76	1
11031	234678-HxCDF	60851-34-5	0.0397	JB	0.0135	5.76	1
11031	1234678-HpCDF	67562-39-4	0.0567	JBQ	0.00749	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0325	JBQ	0.0184	5.76	1
11031	OCDF	39001-02-0	0.220	JBQ	0.0584	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197634
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197634
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 21:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197635
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197635
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8	B	0.0394	1.15	1
11031	12378-PeCDD	40321-76-4	113	B	0.0422	5.76	1
11031	123478-HxCDD	39227-28-6	110	B	0.0786	5.76	1
11031	123678-HxCDD	57653-85-7	112	B	0.0778	5.76	1
11031	123789-HxCDD	19408-74-3	112	B	0.0698	5.76	1
11031	1234678-HpCDD	35822-46-9	114	B	0.0815	5.76	1
11031	OCDD	3268-87-9	221	B	0.0684	11.5	1
11031	2378-TCDF	51207-31-9	24.8	B	0.0423	1.15	1
11031	12378-PeCDF	57117-41-6	111	B	0.0280	5.76	1
11031	23478-PeCDF	57117-31-4	109	B	0.0321	5.76	1
11031	123478-HxCDF	70648-26-9	115	B	0.0930	5.76	1
11031	123678-HxCDF	57117-44-9	112	B	0.0599	5.76	1
11031	123789-HxCDF	72918-21-9	112	B	0.0857	5.76	1
11031	234678-HxCDF	60851-34-5	114	B	0.0659	5.76	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0539	5.76	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0873	5.76	1
11031	OCDF	39001-02-0	227	B	0.0946	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	102	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	104	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197635
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197635
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 01:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197636
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197636
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8	B	0.0336	1.15	1
11031	12378-PeCDD	40321-76-4	119	B	0.0356	5.76	1
11031	123478-HxCDD	39227-28-6	118	B	0.0706	5.76	1
11031	123678-HxCDD	57653-85-7	117	B	0.0711	5.76	1
11031	123789-HxCDD	19408-74-3	115	B	0.0675	5.76	1
11031	1234678-HpCDD	35822-46-9	114	B	0.0586	5.76	1
11031	OCDD	3268-87-9	229	B	0.0548	11.5	1
11031	2378-TCDF	51207-31-9	25.1	B	0.0531	1.15	1
11031	12378-PeCDF	57117-41-6	118	B	0.0274	5.76	1
11031	23478-PeCDF	57117-31-4	117	B	0.0326	5.76	1
11031	123478-HxCDF	70648-26-9	115	B	0.0684	5.76	1
11031	123678-HxCDF	57117-44-9	111	B	0.0468	5.76	1
11031	123789-HxCDF	72918-21-9	113	B	0.0750	5.76	1
11031	234678-HxCDF	60851-34-5	114	B	0.0553	5.76	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0418	5.76	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0736	5.76	1
11031	OCDF	39001-02-0	227	B	0.0673	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	99	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197636
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197636
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 02:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197637
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS197 SDG#: DX046-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-197-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197637
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS197 SDG#: DX046-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0625	JBQ	0.0338	1.12	1
11031	12378-PeCDD	40321-76-4	0.317	JBQ	0.0287	5.60	1
11031	123478-HxCDD	39227-28-6	0.251	JB	0.0337	5.60	1
11031	123678-HxCDD	57653-85-7	0.251	JB	0.0343	5.60	1
11031	123789-HxCDD	19408-74-3	0.362	JBQ	0.0330	5.60	1
11031	1234678-HpCDD	35822-46-9	0.519	JB	0.0423	5.60	1
11031	OCDD	3268-87-9	1.35	JB	0.0422	11.2	1
11031	2378-TCDF	51207-31-9	0.0616	JB	0.0355	1.12	1
11031	12378-PeCDF	57117-41-6	0.289	JB	0.0157	5.60	1
11031	23478-PeCDF	57117-31-4	0.340	JB	0.0194	5.60	1
11031	123478-HxCDF	70648-26-9	0.252	JBQ	0.0349	5.60	1
11031	123678-HxCDF	57117-44-9	0.240	JB	0.0216	5.60	1
11031	123789-HxCDF	72918-21-9	0.496	JB	0.0471	5.60	1
11031	234678-HxCDF	60851-34-5	0.307	JB	0.0295	5.60	1
11031	1234678-HpCDF	67562-39-4	0.274	JB	0.0147	5.60	1
11031	1234789-HpCDF	55673-89-7	0.485	JB	0.0459	5.60	1
11031	OCDF	39001-02-0	1.21	JB	0.116	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	109	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	108	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	116	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-197-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197637
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS197 SDG#: DX046-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197637
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS197 SDG#: DX046-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 03:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197638
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS198 SDG#: DX046-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197638
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS198 SDG#: DX046-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0256	U	0.0256	1.13	1
11031	12378-PeCDD	40321-76-4	0.0793	JBQ	0.0246	5.64	1
11031	123478-HxCDD	39227-28-6	0.0258	JBQ	0.0232	5.64	1
11031	123678-HxCDD	57653-85-7	0.0436	JBQ	0.0240	5.64	1
11031	123789-HxCDD	19408-74-3	0.0663	JBQ	0.0227	5.64	1
11031	1234678-HpCDD	35822-46-9	0.261	JBQ	0.0388	5.64	1
11031	OCDD	3268-87-9	0.581	JB	0.0310	11.3	1
11031	2378-TCDF	51207-31-9	0.0240	U	0.0240	1.13	1
11031	12378-PeCDF	57117-41-6	0.0725	JBQ	0.0118	5.64	1
11031	23478-PeCDF	57117-31-4	0.0720	JB	0.0140	5.64	1
11031	123478-HxCDF	70648-26-9	0.0576	JBQ	0.0171	5.64	1
11031	123678-HxCDF	57117-44-9	0.0509	JBQ	0.0118	5.64	1
11031	123789-HxCDF	72918-21-9	0.0972	JBQ	0.0210	5.64	1
11031	234678-HxCDF	60851-34-5	0.0520	JBQ	0.0154	5.64	1
11031	1234678-HpCDF	67562-39-4	0.0863	JB	0.0112	5.64	1
11031	1234789-HpCDF	55673-89-7	0.111	JBQ	0.0307	5.64	1
11031	OCDF	39001-02-0	0.303	JBQ	0.0736	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197638
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS198 SDG#: DX046-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197638
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS198 SDG#: DX046-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 04:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197639
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS199 SDG#: DX046-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197639
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS199 SDG#: DX046-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0239	U	0.0239	1.15	1
11031	12378-PeCDD	40321-76-4	0.0211	U	0.0211	5.77	1
11031	123478-HxCDD	39227-28-6	0.0397	JBQ	0.0180	5.77	1
11031	123678-HxCDD	57653-85-7	0.0256	JBQ	0.0188	5.77	1
11031	123789-HxCDD	19408-74-3	0.0524	JBQ	0.0180	5.77	1
11031	1234678-HpCDD	35822-46-9	0.238	JBQ	0.0331	5.77	1
11031	OCDD	3268-87-9	0.892	JB	0.0333	11.5	1
11031	2378-TCDF	51207-31-9	0.0227	U	0.0227	1.15	1
11031	12378-PeCDF	57117-41-6	0.0222	JBQ	0.0110	5.77	1
11031	23478-PeCDF	57117-31-4	0.0519	JBQ	0.0123	5.77	1
11031	123478-HxCDF	70648-26-9	0.0506	JBQ	0.0140	5.77	1
11031	123678-HxCDF	57117-44-9	0.0368	JBQ	0.00980	5.77	1
11031	123789-HxCDF	72918-21-9	0.0524	JBQ	0.0181	5.77	1
11031	234678-HxCDF	60851-34-5	0.0348	JBQ	0.0136	5.77	1
11031	1234678-HpCDF	67562-39-4	0.0699	JB	0.00854	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0923	JBQ	0.0197	5.77	1
11031	OCDF	39001-02-0	0.184	JBQ	0.0579	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197639
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS199 SDG#: DX046-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197639
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS199 SDG#: DX046-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 05:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197640
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS200 SDG#: DX046-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197640
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS200 SDG#: DX046-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0503	U	0.0503	1.15	1
11031	12378-PeCDD	40321-76-4	0.0397	U	0.0397	5.76	1
11031	123478-HxCDD	39227-28-6	0.0364	U	0.0364	5.76	1
11031	123678-HxCDD	57653-85-7	0.0678	JBQ	0.0373	5.76	1
11031	123789-HxCDD	19408-74-3	0.120	JB	0.0365	5.76	1
11031	1234678-HpCDD	35822-46-9	0.189	JBQ	0.0578	5.76	1
11031	OCDD	3268-87-9	0.553	JBQ	0.0551	11.5	1
11031	2378-TCDF	51207-31-9	0.0468	U	0.0468	1.15	1
11031	12378-PeCDF	57117-41-6	0.0291	JBQ	0.0182	5.76	1
11031	23478-PeCDF	57117-31-4	0.0619	JBQ	0.0220	5.76	1
11031	123478-HxCDF	70648-26-9	0.0544	JBQ	0.0256	5.76	1
11031	123678-HxCDF	57117-44-9	0.0320	JB	0.0173	5.76	1
11031	123789-HxCDF	72918-21-9	0.108	JB	0.0380	5.76	1
11031	234678-HxCDF	60851-34-5	0.0608	JB	0.0235	5.76	1
11031	1234678-HpCDF	67562-39-4	0.0664	JBQ	0.0159	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0452	U	0.0452	5.76	1
11031	OCDF	39001-02-0	0.180	JBQ	0.121	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	55	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	50	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	49	28 - 136
13C12-123789-HxCDF	38	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	32	26 - 138
13C12-OCDF	30	17 - 157
13C12-1278-TCDD (CRS)	64	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197640
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS200 SDG#: DX046-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197640
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS200 SDG#: DX046-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 06:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231548
Reported: 03/03/11 at 05:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11041162401A	Sample number(s): 6197630-6197640								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11041001	Sample number(s): 6197630-6197640								
2378-TCDD	0.0355 J	0.0281	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0443 J	0.0280	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0358 J	0.0202	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0308 J	0.0202	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0286 J	0.0187	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.174 J	0.0332	5.00	ng/kg	98		70-140		
OCDD	0.352 J	0.0266	10.0	ng/kg	95		78-144		
2378-TCDF	0.0315 J	0.0271	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0365 J	0.0131	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0628 J	0.0141	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0430 J	0.0142	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0232 J	0.0108	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0808 J	0.0142	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0444 J	0.0120	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0900 J	0.0106	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0688 J	0.0176	5.00	ng/kg	97		78-138		
OCDF	0.294 J	0.0459	10.0	ng/kg	99		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11041162401A	Sample number(s): 6197630-6197640 BKG: P197581								
28a Moisture Content by 160.3						13.2	12.4	6	20
Batch number: 11041001	Sample number(s): 6197630-6197640 UNSPK: 6197634								
2378-TCDD	99	99	67-158	0	25				
12378-PeCDD	98	103	70-142	5	25				
123478-HxCDD	96	102	70-164	7	25				
123678-HxCDD	97	102	76-134	5	25				
123789-HxCDD	97	100	64-162	3	25				
1234678-HpCDD	98	99	70-140	1	25				
OCDD	96	99	78-144	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231548
Reported: 03/03/11 at 05:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	108	109	75-158	1	25				
12378-PeCDF	96	102	80-134	6	25				
23478-PeCDF	94	101	68-160	7	25				
123478-HxCDF	100	100	72-134	0	25				
123678-HxCDF	97	96	84-130	1	25				
123789-HxCDF	97	98	78-130	1	25				
234678-HxCDF	99	99	70-156	0	25				
1234678-HpCDF	96	96	82-122	1	25				
1234789-HpCDF	98	97	78-138	1	25				
OCDF	98	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11041001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6197630	59	66	57	76	66	57
6197631	70	72	57	74	58	53
6197632	61	63	55	77	64	53
6197633	73	73	65	91	69	57
6197634	75	77	72	96	75	61
6197635	93	84	65	97	87	82
6197636	87	83	71	99	84	75
6197637	78	80	62	93	68	50
6197638	75	70	62	85	69	56
6197639	75	75	67	90	68	59
6197640	50	53	46	65	49	38
Blank	70	74	67	87	79	78
MS	93	84	65	97	87	82
MSD	87	83	71	99	84	75
OPR	70	68	66	87	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6197630	91	42	33	77	80	66
6197631	90	45	38	85	87	71
6197632	104	45	37	83	80	71
6197633	104	47	42	93	94	75
6197634	101	49	38	87	95	80
6197635	100	75	71	104	92	91
6197636	98	71	71	91	98	87
6197637	116	47	40	92	109	76
6197638	101	44	41	91	89	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231548
Reported: 03/03/11 at 05:56 PM

Surrogate Quality Control

6197639	101	55	49	87	89	80
6197640	72	32	30	64	72	54
Blank	92	67	72	88	78	84
MS	100	75	71	104	92	91
MSD	98	71	71	91	98	87
OPR	90	54	56	89	74	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6197630	68	74	69	65	60	81
6197631	70	76	72	67	67	90
6197632	73	71	70	66	58	82
6197633	76	78	77	76	69	90
6197634	84	84	79	74	71	100
6197635	94	102	95	88	89	100
6197636	88	91	86	87	84	101
6197637	78	80	78	75	69	108
6197638	78	81	74	67	71	88
6197639	78	79	76	73	71	88
6197640	55	56	50	48	49	67
Blank	85	87	85	90	67	84
MS	94	102	95	88	89	100
MSD	88	91	86	87	84	101
OPR	77	79	81	79	66	85
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1231548 6197630-40

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetraphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	5-Encores									X	X	X											FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	4-Encores									X	X	X											FIELD DUPLICATE
SL-175-SA5B-SB-4.0-5.0	1.31.2011	1606	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-175-SA5B-SB-4.5	1.31.2011	1602	SOIL	NONE	4-Encores									X	X												
SL-176-SA5B-SB-4.0-5.0	1.31.2011	1504	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-176-SA5B-SB-4.5	1.31.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-177-SA5B-SB-4.0-5.0	1.31.2011	1404	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-177-SA5B-SB-4.5	1.31.2011	1400	SOIL	NONE	4-Encores									X	X												
SL-182-SA5B-SB-4.0-5.0MS	1.31.2011	0937	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD **
SL-182-SA5B-SB-4.5MS	1.31.2011	0937	SOIL	NONE	18 Encores									X	X	X											MS/MSD **
SL-195-SA5B-SB-4.0-5.0MS	1.31.2011	0930	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X															MS/MSD
SL-195-SA5B-SB-4.5MS	1.31.2011	0927	SOIL	NONE	12-Encores									X	X												MS/MSD
SL-197-SA5B-SB-4.0-5.0	1.31.2011	1451	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-197-SA5B-SB-4.5	1.31.2011	1448	SOIL	NONE	4-Encores									X	X												
SL-198-SA5B-SB-4.0-5.0	1.31.2011	1549	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-198-SA5B-SB-4.5	1.31.2011	1544	SOIL	NONE	4-Encores									X	X												
SL-199-SA5B-SB-4.0-5.0	1.31.2011	1243	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-199-SA5B-SB-4.5	1.31.2011	1240	SOIL	NONE	4-Encores									X	X												
SL-200-SA5B-SB-4.0-5.0	1.31.2011	1104	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-200-SA5B-SB-4.5	1.31.2011	1100	SOIL	NONE	4-Encores									X	X												
SL-204-SA5B-SB-4.0-5.0	1.31.2011	1238	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-204-SA5B-SB-4.5	1.31.2011	1419	SOIL	NONE	5-Encores									X	X	X											
TB-013111	1.31.2011	1230	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 1/31/2011 / 17:00

Received for Laboratory by: (Signature) — 2/3/11 0945

Received by: (Signature) — Date/Time

Airbill No.(s): 8695 1431 9940, ...9950, ...9961

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/03/2011
Group Number: 1231549
SDG: DE085
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-172-SA5B-SB-2.0-3.0 Soil	6197641
SL-173-SA5B-SB-2.0-3.0 Soil	6197642
SL-209-SA5B-SB-4.0-5.0 Soil	6197643
SL-275-SA5B-SB-3.5-4.5 Soil	6197644
TB-020211 Water	6197645

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-172-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197641
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7501 SDG#: DE085-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6	1
06192	Benzene	71-43-2	0.11	U	0.11	4.3	1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3	1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	1
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6	1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	1
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3	1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	1
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3	1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	1
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3	1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3	1
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	1
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3	1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	1
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	1
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	1
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	1
06192	Ethylbenzene	100-41-4	0.29	J	0.06	4.3	1
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	1
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6	1
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3	1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3	1
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6	1
06192	Methylene Chloride	75-09-2	0.47	J	0.26	4.3	1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197641
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7501 SDG#: DE085-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3	1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3	1
06192	Toluene	108-88-3	0.09	U	0.09	4.3	1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	1
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3	1
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	1
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3	1
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3	1
06192	m+p-Xylene	179601-23-1	1.0	J	0.18	4.3	1
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16	24.04
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197641
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7501 SDG#: DE085-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197641
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7501 SDG#: DE085-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,100		5.39	21.4	1
07914	Boron	7440-42-8	0.954	U	0.954	5.36	1
01650	Calcium	7440-70-2	3,030		6.57	21.4	1
01654	Iron	7439-89-6	20,900		5.05	21.4	1
01656	Lithium	7439-93-2	24.9		0.24	2.1	1
01657	Magnesium	7439-95-4	4,790		2.72	10.7	1
06958	Manganese	7439-96-5	250		0.0836	0.536	1
10145	Phosphorus	7723-14-0	491		0.600	10.7	1
01662	Potassium	7440-09-7	2,260		19.3	53.6	1
01667	Sodium	7440-23-5	89.0	J	40.0	107	1
07968	Strontium	7440-24-6	16.6		0.0664	0.536	1
06969	Tin	7440-31-5	2.90	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,410		0.407	1.07	1
10146	Zirconium	7440-67-7	3.49	J	0.900	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0637	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	17.1		0.0849	0.424	2
06126	Barium	7440-39-3	81.7		0.115	0.424	2
06127	Beryllium	7440-41-7	0.396		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.121		0.0424	0.106	2
06131	Chromium	7440-47-3	16.9		0.127	0.424	2
06132	Cobalt	7440-48-4	4.98		0.0212	0.106	2
06133	Copper	7440-50-8	6.35		0.0700	0.424	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197641
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7501 SDG#: DE085-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	3.50		0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.292		0.0531	0.106	2
06139	Nickel	7440-02-0	12.2		0.106	0.424	2
06141	Selenium	7782-49-2	0.163	J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0127	U	0.0127	0.106	2
06145	Thallium	7440-28-0	0.207		0.0318	0.106	2
06148	Vanadium	7440-62-2	34.8		0.0233	0.106	2
06149	Zinc	7440-66-6	56.5		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0049	J	0.0029	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	427		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.34		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.6		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-172-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197641
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7501 SDG#: DE085-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 22:49	Chelsea B Eastep	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 11:46	Jason M Long	24.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 14:10	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:26	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 14:06	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/09/2011 17:50	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 02:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 02:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:27	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:54	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 02:54	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:54	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197641
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7501 SDG#: DE085-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:54	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202A	02/13/2011 07:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201A	02/11/2011 20:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 18:06	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202A	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201A	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-173-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197642
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE085-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.0	U	8.0	9.6	1.08
06192	Benzene	71-43-2	0.12	U	0.12	4.8	1.08
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8	1.08
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8	1.08
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8	1.08
06192	Bromoform	75-25-2	0.48	U	0.48	4.8	1.08
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8	1.08
06192	2-Butanone	78-93-3	1.5	U	1.5	9.6	1.08
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8	1.08
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8	1.08
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8	1.08
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8	1.08
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8	1.08
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8	1.08
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8	1.08
06192	Chloroform	67-66-3	0.14	U	0.14	4.8	1.08
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8	1.08
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8	1.08
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8	1.08
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0	1.08
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.84	U	0.84	4.8	1.08
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8	1.08
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8	1.08
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8	1.08
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8	1.08
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8	1.08
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8	1.08
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8	1.08
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8	1.08
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8	1.08
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8	1.08
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8	1.08
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8	1.08
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8	1.08
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8	1.08
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8	1.08
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8	1.08
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8	1.08
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8	1.08
06192	Ethylbenzene	100-41-4	0.12	J	0.07	4.8	1.08
06192	Freon 113	76-13-1	0.13	U	0.13	4.8	1.08
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0	1.08
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8	1.08
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.6	1.08
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8	1.08
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8	1.08
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8	1.08
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.6	1.08
06192	Methylene Chloride	75-09-2	0.48	J	0.29	4.8	1.08
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8	1.08

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197642
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE085-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8	1.08
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8	1.08
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.8	1.08
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8	1.08
06192	Toluene	108-88-3	0.1	U	0.1	4.8	1.08
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8	1.08
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8	1.08
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8	1.08
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8	1.08
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8	1.08
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8	1.08
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8	1.08
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8	1.08
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8	1.08
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8	1.08
06192	m+p-Xylene	179601-23-1	0.45	J	0.20	4.8	1.08
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8	1.08
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14	21.11
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197642
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE085-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197642
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE085-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		5.54	22.0	1
07914	Boron	7440-42-8	0.980	U	0.980	5.51	1
01650	Calcium	7440-70-2	2,780		6.75	22.0	1
01654	Iron	7439-89-6	23,800		5.19	22.0	1
01656	Lithium	7439-93-2	36.6		0.24	2.2	1
01657	Magnesium	7439-95-4	5,700		2.80	11.0	1
06958	Manganese	7439-96-5	328		0.0859	0.551	1
10145	Phosphorus	7723-14-0	355		0.617	11.0	1
01662	Potassium	7440-09-7	2,330		19.8	55.1	1
01667	Sodium	7440-23-5	187		41.1	110	1
07968	Strontium	7440-24-6	22.2		0.0683	0.551	1
06969	Tin	7440-31-5	3.03	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,380		0.419	1.10	1
10146	Zirconium	7440-67-7	1.80	J	0.925	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0648	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.2		0.0864	0.432	2
06126	Barium	7440-39-3	80.7		0.117	0.432	2
06127	Beryllium	7440-41-7	0.540		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0866	J	0.0432	0.108	2
06131	Chromium	7440-47-3	17.0		0.130	0.432	2
06132	Cobalt	7440-48-4	5.67		0.0216	0.108	2
06133	Copper	7440-50-8	7.60		0.0713	0.432	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197642
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE085-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	4.17	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.349	0.0540	0.108	2
06139	Nickel	7440-02-0	12.6	0.108	0.432	2
06141	Selenium	7782-49-2	0.108 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0130 U	0.0130	0.108	2
06145	Thallium	7440-28-0	0.241	0.0324	0.108	2
06148	Vanadium	7440-62-2	32.9	0.0238	0.108	2
06149	Zinc	7440-66-6	58.7	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050 J	0.0030	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	450	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.99	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-173-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-173-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197642
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE085-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 23:12	Chelsea B Eastep	1.08
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 12:06	Jason M Long	21.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 14:22	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:26	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:26	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 14:20	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 01:17	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 03:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 02:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:30	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 02:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/16/2011 05:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 02:57	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197642
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE085-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 02:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202B	02/13/2011 07:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201B	02/11/2011 20:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 18:12	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202B	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201B	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-209-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197643
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7503 SDG#: DE085-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.3	U	7.3	8.7	0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.95
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3	0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7	0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.95
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.3	0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.3	0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.95
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3	0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.95
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3	0.95
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3	0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3	0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.95
06192	Ethylbenzene	100-41-4	0.25	J	0.07	4.3	0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.95
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7	0.95
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.3	0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3	0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7	0.95
06192	Methylene Chloride	75-09-2	0.45	J	0.26	4.3	0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3	0.95

*=This limit was used in the evaluation of the final result

Sample Description: SL-209-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197643
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7503 SDG#: DE085-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3	0.95
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3	0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3	0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.95
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3	0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.95
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3	0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.95
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3	0.95
06192	m+p-Xylene	179601-23-1	0.96	J	0.18	4.3	0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16	22.89
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-209-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197643
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7503 SDG#: DE085-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197643
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7503 SDG#: DE085-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500		5.71	22.7	1
07914	Boron	7440-42-8	1.01	U	1.01	5.68	1
01650	Calcium	7440-70-2	3,560		6.96	22.7	1
01654	Iron	7439-89-6	35,900		26.7	114	5
01656	Lithium	7439-93-2	33.2		0.25	2.3	1
01657	Magnesium	7439-95-4	7,040		2.88	11.4	1
06958	Manganese	7439-96-5	307		0.0886	0.568	1
10145	Phosphorus	7723-14-0	363		0.636	11.4	1
01662	Potassium	7440-09-7	2,620		20.4	56.8	1
01667	Sodium	7440-23-5	110	J	42.4	114	1
07968	Strontium	7440-24-6	26.6		0.0704	0.568	1
06969	Tin	7440-31-5	3.23	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,580		0.431	1.14	1
10146	Zirconium	7440-67-7	2.36	J	0.954	5.68	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.356		0.0662	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.9		0.0882	0.441	2
06126	Barium	7440-39-3	103		0.119	0.441	2
06127	Beryllium	7440-41-7	0.855		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.0872	J	0.0441	0.110	2
06131	Chromium	7440-47-3	29.2		0.132	0.441	2
06132	Cobalt	7440-48-4	9.31		0.0221	0.110	2
06133	Copper	7440-50-8	15.9		0.0728	0.441	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-209-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197643
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7503 SDG#: DE085-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.41		0.0115	0.221	2
06138	Molybdenum	7439-98-7	1.30		0.0551	0.110	2
06139	Nickel	7440-02-0	20.4		0.110	0.441	2
06141	Selenium	7782-49-2	0.324	J	0.0441	0.441	2
06142	Silver	7440-22-4	0.0170	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.477		0.0331	0.110	2
06148	Vanadium	7440-62-2	44.7		0.0243	0.110	2
06149	Zinc	7440-66-6	76.3		0.618	3.31	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0167	J	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.92	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	448		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.25		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.8		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-209-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197643
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7503 SDG#: DE085-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 23:34	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 12:26	Jason M Long	22.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 14:18	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:26	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:26	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 14:16	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 01:44	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 03:38	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 02:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/11/2011 22:50	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:34	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:00	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:00	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-209-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197643
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7503 SDG#: DE085-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202B	02/13/2011 08:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201B	02/11/2011 22:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 18:31	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202B	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201B	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-275-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197644
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7504 SDG#: DE085-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8	0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8	0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9	0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9	0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9	0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9	0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9	0.84
06192	Ethylbenzene	100-41-4	0.14	J	0.06	3.9	0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8	0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8	0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8	0.84
06192	Methylene Chloride	75-09-2	0.44	J	0.23	3.9	0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.84

*=This limit was used in the evaluation of the final result

Sample Description: SL-275-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197644
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7504 SDG#: DE085-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9	0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9	0.84
06192	m+p-Xylene	179601-23-1	0.48	J	0.16	3.9	0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9	0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	21.15
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	770	U	770	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-275-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197644
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7504 SDG#: DE085-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-275-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197644
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7504 SDG#: DE085-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
	The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		5.82	23.1	1
07914	Boron	7440-42-8	1.03	U	1.03	5.79	1
01650	Calcium	7440-70-2	2,160		7.09	23.1	1
01654	Iron	7439-89-6	22,100		5.45	23.1	1
01656	Lithium	7439-93-2	26.0		0.25	2.3	1
01657	Magnesium	7439-95-4	4,140		2.94	11.6	1
06958	Manganese	7439-96-5	267		0.0903	0.579	1
10145	Phosphorus	7723-14-0	225		0.648	11.6	1
01662	Potassium	7440-09-7	1,920		20.8	57.9	1
01667	Sodium	7440-23-5	102	J	43.2	116	1
07968	Strontium	7440-24-6	21.5		0.0718	0.579	1
06969	Tin	7440-31-5	2.88	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,250		0.440	1.16	1
10146	Zirconium	7440-67-7	2.82	J	0.972	5.79	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0968	J	0.0674	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.98		0.0899	0.449	2
06126	Barium	7440-39-3	101		0.121	0.449	2
06127	Beryllium	7440-41-7	0.710		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.119		0.0449	0.112	2
06131	Chromium	7440-47-3	19.2		0.135	0.449	2
06132	Cobalt	7440-48-4	5.74		0.0225	0.112	2
06133	Copper	7440-50-8	7.69		0.0742	0.449	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-275-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197644
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7504 SDG#: DE085-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	6.09	0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.649	0.0562	0.112	2
06139	Nickel	7440-02-0	12.1	0.112	0.449	2
06141	Selenium	7782-49-2	0.0605 J	0.0449	0.449	2
06142	Silver	7440-22-4	0.0390 J	0.0135	0.112	2
06145	Thallium	7440-28-0	0.246	0.0337	0.112	2
06148	Vanadium	7440-62-2	36.0	0.0247	0.112	2
06149	Zinc	7440-66-6	50.1	0.629	3.37	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0055 J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.93	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 J	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	464	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.40	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-275-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-275-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197644
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7504 SDG#: DE085-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110351AA	02/04/2011 23:57	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 12:46	Jason M Long	21.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523636	02/03/2011 14:14	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103423627	02/03/2011 15:25	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201103423627	02/03/2011 14:11	Christopher M Klumpp	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 02:11	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 04:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110350007A	02/11/2011 03:13	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110350007A	02/04/2011 13:30	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:46	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:03	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:03	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-275-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197644
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7504 SDG#: DE085-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11042621202B	02/13/2011 08:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11042621201B	02/11/2011 22:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11050243201A	02/21/2011 18:43	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11042621202B	02/11/2011 13:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11042621201B	02/11/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11035182102A	02/04/2011 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11035039403A	02/04/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11050243201A	02/19/2011 06:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-020211 Water
SSFL Area IV Collocated Soil Sampling
TB-020211

LLI Sample # WW 6197645
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7505 SDG#: DE085-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-020211 Water**
SSFL Area IV Collocated Soil Sampling
TB-020211

LLI Sample # WW 6197645
LLI Group # 1231549
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011

Submitted: 02/03/2011 09:45
Reported: 02/23/2011 14:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7505 SDG#: DE085-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110351AA	02/04/2011 13:11	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110341AA	02/03/2011 14:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110341AA	02/03/2011 14:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110351AA	02/04/2011 13:11	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110351AA	Sample number(s): 6197641-6197644									
Acetone	7.5	J	6.7	8.0	ug/kg	200		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	104		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	84		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	99		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	93		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	86		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	141		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	99		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	89		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	83		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	82		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	80		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	86		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	92		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	75		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	99		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	97		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	83		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	97		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	83		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	80		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	94		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	90		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	92		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	70		61-134		
Methylene Chloride	0.79	J	0.24	4.0	ug/kg	105		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	99		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	98		77-120		
Toluene	0.53	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	77		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	68		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	100		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	105		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	96		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	94		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	88		80-120		
Batch number: E110341AA	Sample number(s): 6197645									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	108	110	60-132	2	30
Batch number: E110381AA	Sample number(s): 6197641-6197644									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	107	103	70-130	4	30
Batch number: Y110351AA	Sample number(s): 6197645									
Acetone	6	U	6.	20	ug/l	171	189	49-234	10	30
Benzene	0.5	U	0.5	5	ug/l	98	98	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	92	96	80-120	5	30
Bromoform	1	U	1.	5	ug/l	92	91	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	102	116	44-120	13	30
2-Butanone	3	U	3.	10	ug/l	118	123	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	88	98	74-120	11	30
sec-Butylbenzene	1	U	1.	5	ug/l	103	104	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	93	101	75-123	8	30
Chlorobenzene	0.8	U	0.8	5	ug/l	98	97	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	99	117	49-129	16	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	95	96	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	97	100	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	101	120	60-129	17	30
2-Chlorotoluene	1	U	1.	5	ug/l	104	102	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	101	98	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	83	80	38-136	4	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	85	98	66-120	15	30
Dibromochloromethane	1	U	1.	5	ug/l	92	93	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	96	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	95	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	85	93	80-120	9	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	109	47-120	16	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	96	79-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	93	100	70-130	7	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	106	74-123	10	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	99	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	92	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	96	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	98	77-124	8	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	99	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	89	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	88	92	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	97	79-120	0	30
Freon 113	2	U	2.	10	ug/l	99	109	69-128	10	30
Freon 133a	2	U	2.	5	ug/l	93	88	77-120	6	30
Hexachlorobutadiene	2	U	2.	5	ug/l	81	94	58-120	14	30
2-Hexanone	3	U	3.	10	ug/l	104	110	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	96	97	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	102	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	97	76-120	4	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	88	90	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	99	108	80-120	9	30
n-Propylbenzene	1	U	1.	5	ug/l	103	102	80-120	0	30
Styrene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	97	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	97	97	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	98	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	100	99	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	98	65-120	13	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	96	67-120	12	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	81	89	75-127	9	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	94	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	97	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	115	64-129	14	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	99	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	102	102	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	87	101	65-125	15	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Batch number: 11037SLA026	Sample number(s): 6197641-6197644									
Aniline	170 U		170.	500	ug/kg	55		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	98		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	98		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	75		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	71		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	64		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	97		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	104		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11037SLB026	Sample number(s): 6197641-6197644									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	92		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	96		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	92		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	132		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	97		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	104		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	104		56-121		
Batch number: 110350007A	Sample number(s): 6197641-6197644									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	63*	57*	75-125	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	102		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	268*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110351026001A	Sample number(s): 6197641-6197644									
Antimony	0.0600	U	0.0600	0.200	mg/kg	110		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	108		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	110		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	99		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	109		78-122		
Batch number: 110351026001B	Sample number(s): 6197641-6197644									
Selenium	0.0400	U	0.0400	0.400	mg/kg	107		79-122		
Batch number: 110351026001C	Sample number(s): 6197641-6197644									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 110351026001D	Sample number(s): 6197641-6197644									
Barium	0.108	U	0.108	0.400	mg/kg	107		79-121		
Batch number: 110355708002	Sample number(s): 6197641-6197644									
Aluminum	5.03	U	5.03	20.0	mg/kg	96		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	0.560	U	0.560	10.0	mg/kg	100		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		79-121		
Tin	1.48	J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	100		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	99		80-120		
Batch number: 110355711002	Sample number(s): 6197641-6197644									
Mercury	0.0028	U	0.0028	0.0980	mg/kg	99		88-123		
Batch number: 11042621201A	Sample number(s): 6197641									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11042621201B	Sample number(s): 6197642-6197644									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11042621202A	Sample number(s): 6197641									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11042621202B	Sample number(s): 6197642-6197644									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11050243201A	Sample number(s): 6197641-6197644									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11035039403A	Sample number(s): 6197641-6197644									
22a pH by 9045C						101		95-105		
Batch number: 11035182102A	Sample number(s): 6197641-6197644									
32a OR Potential						100		98-102		
Batch number: 11041162401B	Sample number(s): 6197641-6197644									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110351AA	Sample number(s): 6197641-6197644 UNSPK: P197581								
Acetone	102	122	15-210	27	30				
Benzene	101	107	55-143	16	30				
Bromobenzene	80	85	43-139	17	30				
Bromochloromethane	97	96	60-137	10	30				
Bromodichloromethane	92	97	53-136	15	30				
Bromoform	84	91	38-124	18	30				
Bromomethane	88	95	42-168	18	30				
2-Butanone	83	98	37-163	27	30				
n-Butylbenzene	90	92	30-146	12	30				
sec-Butylbenzene	84	88	33-157	14	30				
tert-Butylbenzene	79	82	41-152	14	30				
Carbon Tetrachloride	100	104	45-153	14	30				
Chlorobenzene	98	101	49-135	12	30				
Chloroethane	89	93	39-152	15	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloroethyl Vinyl Ether	69	75	32-139	18	30				
Chloroform	100	108	61-142	17	30				
Chloromethane	87	103	51-163	26	30				
2-Chlorotoluene	86	91	42-146	15	30				
4-Chlorotoluene	87	90	39-145	14	30				
Chlorotrifluoroethene	67*	74	70-130	14	30				
1,2-Dibromo-3-chloropropane	72	84	30-139	26	30				
Dibromochloromethane	96	102	51-128	16	30				
1,2-Dibromoethane	90	99	54-129	20	30				
Dibromomethane	92	99	57-130	17	30				
1,2-Dichlorobenzene	87	93	36-133	17	30				
1,3-Dichlorobenzene	81	86	34-134	16	30				
1,4-Dichlorobenzene	83	88	35-136	16	30				
Dichlorodifluoromethane	77	80	26-151	14	30				
1,1-Dichloroethane	103	110	63-142	16	30				
1,2-Dichloroethane	94	102	68-131	18	30				
1,1-Dichloroethene	114	121	61-149	16	30				
cis-1,2-Dichloroethene	95	103	60-136	18	30				
trans-1,2-Dichloroethene	102	111	59-142	18	30				
1,2-Dichloropropane	100	106	62-135	16	30				
1,3-Dichloropropane	95	103	58-129	18	30				
2,2-Dichloropropane	101	110	53-147	18	30				
1,1-Dichloropropene	95	102	54-145	17	30				
cis-1,3-Dichloropropene	76	84	51-131	20	30				
trans-1,3-Dichloropropene	82	91	49-129	20	30				
Ethylbenzene	92	96	44-141	14	30				
Freon 113	114	124	56-156	18	30				
Freon 133a	77	87	70-130	16	30				
Hexachlorobutadiene	69	74	10-155	18	30				
2-Hexanone	53	64	32-160	27	30				
Isopropylbenzene	85	86	38-144	12	30				
p-Isopropyltoluene	85	88	29-152	13	30				
Methyl Tertiary Butyl Ether	83	94	55-129	23	30				
4-Methyl-2-pentanone	56	65	46-139	26	30				
Methylene Chloride	99	108	61-141	18	30				
n-Propylbenzene	94	97	39-157	13	30				
Styrene	93	96	35-134	13	30				
1,1,1,2-Tetrachloroethane	100	106	52-130	15	30				
1,1,2,2-Tetrachloroethane	86	98	40-152	22	30				
Tetrachloroethene	94	97	42-149	12	30				
Toluene	100	106	50-146	15	30				
1,2,3-Trichlorobenzene	63	72	10-140	24	30				
1,2,4-Trichlorobenzene	54	62	10-136	23	30				
1,1,1-Trichloroethane	99	106	64-142	17	30				
1,1,2-Trichloroethane	97	106	54-139	18	30				
Trichloroethene	91	97	53-144	17	30				
Trichlorofluoromethane	99	103	47-163	14	30				
1,2,3-Trichloropropane	80	93	45-154	24	30				
1,2,4-Trimethylbenzene	86	90	37-149	14	30				
1,3,5-Trimethylbenzene	86	89	38-150	14	30				
Vinyl Chloride	93	101	50-154	18	30				
m+p-Xylene	98	104	44-137	16	30				
o-Xylene	83	88	42-137	16	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11037SLA026	Sample number(s): 6197641-6197644 UNSPK: P197581								
Aniline	69	61	35-95	11	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	92	96	10-173	5	30				
Benzyl alcohol	95	91	67-115	4	30				
4-Bromophenyl-phenylether	86	88	67-129	2	30				
Carbazole	96	94	64-120	2	30				
4-Chloro-3-methylphenol	90	94	76-110	4	30				
4-Chloroaniline	58	59	23-95	1	30				
bis(2-Chloroethoxy)methane	87	90	75-104	4	30				
bis(2-Chloroethyl)ether	91	89	60-116	2	30				
bis(2-Chloroisopropyl)ether	95	93	55-142	3	30				
2-Chloronaphthalene	71	78	50-141	10	30				
2-Chlorophenol	94	97	73-121	2	30				
4-Chlorophenyl-phenylether	89	90	80-109	1	30				
Dibenzofuran	94	92	71-112	2	30				
1,2-Dichlorobenzene	82	86	66-108	5	30				
1,3-Dichlorobenzene	80	78	63-109	3	30				
1,4-Dichlorobenzene	84	82	70-100	2	30				
3,3'-Dichlorobenzidine	63	63	16-119	0	30				
2,4-Dichlorophenol	89	93	78-117	5	30				
2,4-Dimethylphenol	87	95	78-110	8	30				
3,5-Dimethylphenol	99	110	70-130	11	30				
4,6-Dinitro-2-methylphenol	84	85	24-116	1	30				
2,4-Dinitrophenol	79	78	20-143	1	30				
2,4-Dinitrotoluene	98	98	73-113	0	30				
2,6-Dinitrotoluene	95	95	69-123	0	30				
1,2-Diphenylhydrazine	103	103	71-129	0	30				
Hexachlorobenzene	93	90	77-114	3	30				
Hexachlorobutadiene	74	78	62-120	5	30				
Hexachlorocyclopentadiene	65	69	10-153	7	30				
Hexachloroethane	78	79	57-109	2	30				
Isophorone	87	90	73-102	3	30				
2-Methylphenol	95	99	75-111	4	30				
4-Methylphenol	91	94	71-111	3	30				
2-Nitroaniline	98	95	67-125	3	30				
3-Nitroaniline	91	92	59-122	1	30				
4-Nitroaniline	78	75	52-112	4	30				
Nitrobenzene	90	94	72-106	5	30				
2-Nitrophenol	86	94	74-115	9	30				
4-Nitrophenol	88	88	54-113	0	30				
N-Nitroso-di-n-propylamine	91	92	60-116	1	30				
N-Nitrosodiphenylamine	96	94	86-145	2	30				
Pentachlorophenol	80	83	28-127	3	30				
Phenol	101	105	58-126	4	30				
1,2,4-Trichlorobenzene	81	84	72-115	4	30				
2,4,5-Trichlorophenol	96	95	78-109	1	30				
2,4,6-Trichlorophenol	91	93	77-115	2	30				
Batch number: 11037SLB026	Sample number(s): 6197641-6197644 UNSPK: P197581								
Acenaphthene	91	93	63-105	2	30				
Acenaphthylene	92	92	67-114	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	99	95	60-122	3	30				
Benzo(a)anthracene	114	112	59-128	2	30				
Benzo(a)pyrene	93	96	45-138	4	30				
Benzo(b)fluoranthene	100	103	43-155	3	30				
Benzo(g,h,i)perylene	101	105	33-141	4	30				
Benzo(k)fluoranthene	95	101	42-144	6	30				
Butylbenzylphthalate	126	119	57-173	6	30				
Di-n-butylphthalate	113	108	65-148	5	30				
Chrysene	107	105	48-134	2	30				
Dibenz(a,h)anthracene	97	99	22-133	2	30				
Diethylphthalate	101	97	70-136	4	30				
Dimethylphthalate	104	105	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	124	113	39-167	8	30				
Fluoranthene	103	105	26-166	2	30				
Fluorene	100	100	66-122	1	30				
Indeno(1,2,3-cd)pyrene	97	99	21-143	3	30				
1-Methylnaphthalene	91	93	72-123	2	30				
2-Methylnaphthalene	83	84	64-103	1	30				
Naphthalene	92	93	61-102	1	30				
N-Nitrosodimethylamine	91	95	48-113	4	30				
Di-n-octylphthalate	109	113	40-192	3	30				
Phenanthrene	97	97	12-165	1	30				
Pyrene	107	104	15-153	2	30				
Batch number: 110350007A	Sample number(s): 6197641-6197644 UNSPK: P197581								
PCB-1016	91	144	29-146	45	50				
PCB-1260	247*	267*	39-149	8	50				
Batch number: 110351026001A	Sample number(s): 6197641-6197644 UNSPK: P197581 BKG: P197581								
Antimony	48*	46*	75-125	1	20	0.0982 J	0.111 J	13 (1)	20
Arsenic	100	112	75-125	5	20	3.89	4.45	13	20
Beryllium	86	91	75-125	6	20	0.494	0.522	6	20
Cadmium	102	92	75-125	6	20	0.137	0.106	26* (1)	20
Chromium	96	93	75-125	0	20	15.5	16.7	8	20
Cobalt	89	84	75-125	2	20	4.64	4.45	4	20
Copper	94	86	75-125	3	20	7.36	7.36	0	20
Lead	99	104	75-125	3	20	4.36	4.46	2	20
Nickel	98	89	75-125	3	20	9.64	9.63	0	20
Silver	99	100	75-125	4	20	0.0176 J	0.0252 J	35* (1)	20
Thallium	99	96	75-125	0	20	0.223	0.211	6 (1)	20
Vanadium	105	97	75-125	1	20	27.9	29.9	7	20
Zinc	72*	77	75-125	1	20	38.3	37.2	3	20
Batch number: 110351026001B	Sample number(s): 6197641-6197644 UNSPK: P197581 BKG: P197581								
Selenium	99	99	75-125	3	20	0.113 J	0.142 J	23* (1)	20
Batch number: 110351026001C	Sample number(s): 6197641-6197644 UNSPK: P197581 BKG: P197581								
Molybdenum	95	94	75-125	2	20	0.540	0.570	5	20
Batch number: 110351026001D	Sample number(s): 6197641-6197644 UNSPK: P197581 BKG: P197581								
Barium	138 (2)	159 (2)	75-125	3	20	77.9	79.2	2	20
Batch number: 110355708002	Sample number(s): 6197641-6197644 UNSPK: P197581 BKG: P197581								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Aluminum	2451 (2)	2710 (2)	75-125	3	20	13,500	13,700	2	20
Boron	93	92	84-115	0	20	1.53 J	1.29 J	16 (1)	20
Calcium	189 (2)	186 (2)	75-125	0	20	1,840	1,860	1	20
Iron	2864 (2)	2285 (2)	75-125	3	20	15,500	15,700	1	20
Lithium	101	101	82-114	0	20	14.3	14.6	2	20
Magnesium	323 (2)	330 (2)	75-125	0	20	2,880	2,990	4	20
Manganese	160 (2)	100 (2)	75-125	9	20	260	255	2	20
Phosphorus	115	110	75-125	2	20	191	182	5	20
Potassium	136*	132*	75-125	1	20	2,300	2,240	2	20
Sodium	97	97	75-125	0	20	75.4 J	75.9 J	1 (1)	20
Strontium	96	95	75-115	1	20	18.0	18.2	1	20
Tin	92	92	80-110	0	20	2.50 J	2.43 J	3 (1)	20
Titanium	341 (2)	311 (2)	75-125	2	20	1,030	1,040	1	20
Zirconium	94	93	75-125	0	20	2.55 J	2.70 J	6 (1)	20
Batch number: 110355711002	Sample number(s): 6197641-6197644 UNSPK: P197581 BKG: P197581								
Mercury	102	100	65-135	2	20	0.0027 U	0.0034 J	200* (1)	20
Batch number: 11042621201A	Sample number(s): 6197641 UNSPK: P197581 BKG: P197581								
7a Perchlorate EPA 314.0	87		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11042621201B	Sample number(s): 6197642-6197644 UNSPK: 6197642 BKG: 6197642								
7a Perchlorate EPA 314.0	91		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11042621202A	Sample number(s): 6197641 UNSPK: P197581 BKG: P197581								
11a Anions by 300.0 - Fluoride	44*		80-120			1.5	0.92 J	48* (1)	20
Batch number: 11042621202B	Sample number(s): 6197642-6197644 UNSPK: 6197642 BKG: 6197642								
11a Anions by 300.0 - Fluoride	71*		80-120			2.3	2.4	4 (1)	20
Batch number: 11050243201A	Sample number(s): 6197641-6197644 UNSPK: P197581 BKG: P197581								
3a Cr VI by EPA 7199	94		75-125			0.43 J	0.48 J	9 (1)	20
Batch number: 11035039403A	Sample number(s): 6197641-6197644 BKG: P197581								
22a pH by 9045C						7.10	7.10	0	1
Batch number: 11035182102A	Sample number(s): 6197641-6197644 BKG: P197581								
32a OR Potential						386	393	2	6
Batch number: 11041162401B	Sample number(s): 6197641-6197644 BKG: P198514								
28a Moisture Content by 160.3						8.0	8.4	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Surrogate Quality Control

Batch number: B110351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6197641	114	109	100	84
6197642	117	116	99	84
6197643	115	112	100	84
6197644	114	107	101	82
Blank	112	111	102	85
LCS	101	100	110	106
MS	101	102	110	107
MSD	101	100	110	106
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110341AA

	Toluene-d8
6197645	96
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110381AA

	Toluene-d8
6197641	94
6197642	94
6197643	95
6197644	94
Blank	95
LCS	96
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6197645	102	100	98	94
Blank	101	101	98	94
LCS	98	100	99	95
LCSD	100	101	100	97
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11037SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6197641	91	96	54	83	88	99
6197642	84	83	88	71	74	79
6197643	96	93	95	81	82	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231549
Reported: 02/23/11 at 02:48 PM

Surrogate Quality Control

6197644	85	89	79	78	70	95
Blank	88	89	94	84	91	99
LCS	100	100	96	89	90	98
MS	95	95	99	83	89	94
MSD	99	98	97	90	90	91
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11037SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6197641	99	93	111
6197642	103	97	106
6197643	95	90	108
6197644	102	94	110
Blank	96	91	113
LCS	100	90	107
MS	104	94	111
MSD	109	99	108
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110350007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6197641	150*	200*
6197642	119	186*
6197643	106	166*
6197644	112	185*
Blank	71	91
LCS	109	176*
LCSD	80	103
MS	107	166*
MSD	109	169*
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1231549 Sample# 6197641-45

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Paul Hartman

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-172-SA5B-SB-2.0-3.0	2.02.2011	1417	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-172-SA5B-SB-2.5	2.02.2011	1415	SOIL	NONE	4-Encores																						
SL-173-SA5B-SB-2.0-3.0	2.02.2011	0942	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-173-SA5B-SB-2.5	2.02.2011	0937	SOIL	NONE	4-Encores																						
SL-209-SA5B-SB-4.0-5.0	2.02.2011	1409	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-209-SA5B-SB-4.5	2.02.2011	1405	SOIL	NONE	4-Encores																						
SL-275-SA5B-SB-3.5-4.5	2.02.2011	0928	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-275-SA5B-SB-4.0	2.02.2011	0925	SOIL	NONE	4-Encores																						
														X	X												
TB-020211	2.02.2011		WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/02/2011 / 17:00
Received by: (Signature) — Date/Time:
Received for Laboratory by: (Signature) Mary Yerdich LI 2/3/11 945
Airbill No.(s): 8695 1431 9983

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/03/2011
Group Number: 1231551
SDG: DX047
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-172-SA5B-SB-2.0-3.0 Soil	6197653
SL-173-SA5B-SB-2.0-3.0 Soil	6197654
SL-209-SA5B-SB-4.0-5.0 Soil	6197655
SL-275-SA5B-SB-3.5-4.5 Soil	6197656

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-172-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197653
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX047-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197653
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX047-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0287 U	0.0287	1.08	1
11031	12378-PeCDD	40321-76-4	0.0437 JBQ	0.0264	5.41	1
11031	123478-HxCDD	39227-28-6	0.0206 U	0.0206	5.41	1
11031	123678-HxCDD	57653-85-7	0.0365 JQ	0.0197	5.41	1
11031	123789-HxCDD	19408-74-3	0.0433 JQ	0.0205	5.41	1
11031	1234678-HpCDD	35822-46-9	0.292 JBQ	0.0307	5.41	1
11031	OCDD	3268-87-9	2.41 JB	0.0258	10.8	1
11031	2378-TCDF	51207-31-9	0.0259 U	0.0259	1.08	1
11031	12378-PeCDF	57117-41-6	0.0268 JB	0.0131	5.41	1
11031	23478-PeCDF	57117-31-4	0.0461 JB	0.0122	5.41	1
11031	123478-HxCDF	70648-26-9	0.0155 U	0.0155	5.41	1
11031	123678-HxCDF	57117-44-9	0.0129 U	0.0129	5.41	1
11031	123789-HxCDF	72918-21-9	0.0239 JBQ	0.0140	5.41	1
11031	234678-HxCDF	60851-34-5	0.0258 JBQ	0.0141	5.41	1
11031	1234678-HpCDF	67562-39-4	0.0645 JBQ	0.0140	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0246 JQ	0.0167	5.41	1
11031	OCDF	39001-02-0	0.137 JB	0.0370	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197653
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX047-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5B-SB-2.0-3.0

LLI Sample # SW 6197653
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:17

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX047-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/17/2011 16:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197654
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX047-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197654
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX047-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0308	U	0.0308	1.11	1
11031	12378-PeCDD	40321-76-4	0.0325	U	0.0325	5.56	1
11031	123478-HxCDD	39227-28-6	0.0219	U	0.0219	5.56	1
11031	123678-HxCDD	57653-85-7	0.0429	JQ	0.0231	5.56	1
11031	123789-HxCDD	19408-74-3	0.0941	J	0.0228	5.56	1
11031	1234678-HpCDD	35822-46-9	0.301	JB	0.0314	5.56	1
11031	OCDD	3268-87-9	2.18	JB	0.0288	11.1	1
11031	2378-TCDF	51207-31-9	0.0279	U	0.0279	1.11	1
11031	12378-PeCDF	57117-41-6	0.0140	U	0.0140	5.56	1
11031	23478-PeCDF	57117-31-4	0.0756	JBQ	0.0128	5.56	1
11031	123478-HxCDF	70648-26-9	0.0195	JBQ	0.0139	5.56	1
11031	123678-HxCDF	57117-44-9	0.0244	JBQ	0.0110	5.56	1
11031	123789-HxCDF	72918-21-9	0.0443	JBQ	0.0141	5.56	1
11031	234678-HxCDF	60851-34-5	0.0171	JBQ	0.0116	5.56	1
11031	1234678-HpCDF	67562-39-4	0.0630	JBQ	0.0119	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0281	J	0.0152	5.56	1
11031	OCDF	39001-02-0	0.0336	U	0.0336	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	95	17 - 157
13C12-1278-TCDD (CRS)	100	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197654
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX047-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5B-SB-2.0-3.0

LLI Sample # SW 6197654
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:42

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX047-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/17/2011 17:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-209-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197655
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX047-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-209-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197655
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX047-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0329 U	0.0329	1.15	1
11031	12378-PeCDD	40321-76-4	0.0600 JBQ	0.0288	5.73	1
11031	123478-HxCDD	39227-28-6	0.0247 U	0.0247	5.73	1
11031	123678-HxCDD	57653-85-7	0.0539 JQ	0.0253	5.73	1
11031	123789-HxCDD	19408-74-3	0.146 J	0.0245	5.73	1
11031	1234678-HpCDD	35822-46-9	0.321 JBQ	0.0343	5.73	1
11031	OCDD	3268-87-9	2.74 JB	0.0344	11.5	1
11031	2378-TCDF	51207-31-9	0.0325 U	0.0325	1.15	1
11031	12378-PeCDF	57117-41-6	0.0326 JBQ	0.0151	5.73	1
11031	23478-PeCDF	57117-31-4	0.0341 JBQ	0.0133	5.73	1
11031	123478-HxCDF	70648-26-9	0.0157 U	0.0157	5.73	1
11031	123678-HxCDF	57117-44-9	0.0279 JBQ	0.0127	5.73	1
11031	123789-HxCDF	72918-21-9	0.0629 JB	0.0144	5.73	1
11031	234678-HxCDF	60851-34-5	0.0206 JBQ	0.0133	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0400 JBQ	0.0116	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0281 JQ	0.0138	5.73	1
11031	OCDF	39001-02-0	0.118 JBQ	0.0357	11.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	90	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-209-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197655
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX047-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-209-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-209-SA5B-SB-4.0-5.0

LLI Sample # SW 6197655
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 14:09

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX047-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/17/2011 18:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-275-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197656
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX047-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-275-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197656
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX047-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0252	U	0.0252	1.16	1
11031	12378-PeCDD	40321-76-4	0.0301	U	0.0301	5.79	1
11031	123478-HxCDD	39227-28-6	0.0214	U	0.0214	5.79	1
11031	123678-HxCDD	57653-85-7	0.0459	JQ	0.0222	5.79	1
11031	123789-HxCDD	19408-74-3	0.0575	JQ	0.0215	5.79	1
11031	1234678-HpCDD	35822-46-9	0.435	JBQ	0.0340	5.79	1
11031	OCDD	3268-87-9	6.96	JB	0.0237	11.6	1
11031	2378-TCDF	51207-31-9	0.0274	U	0.0274	1.16	1
11031	12378-PeCDF	57117-41-6	0.0133	JBQ	0.0123	5.79	1
11031	23478-PeCDF	57117-31-4	0.0383	JB	0.0110	5.79	1
11031	123478-HxCDF	70648-26-9	0.0268	JBQ	0.0111	5.79	1
11031	123678-HxCDF	57117-44-9	0.0221	JBQ	0.00914	5.79	1
11031	123789-HxCDF	72918-21-9	0.0533	JBQ	0.0109	5.79	1
11031	234678-HxCDF	60851-34-5	0.0169	JBQ	0.00972	5.79	1
11031	1234678-HpCDF	67562-39-4	0.0398	JB	0.00764	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0175	JQ	0.0106	5.79	1
11031	OCDF	39001-02-0	0.111	JBQ	0.0289	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-275-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197656
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX047-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-275-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-275-SA5B-SB-3.5-4.5

LLI Sample # SW 6197656
LLI Group # 1231551
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011 09:28

Submitted: 02/03/2011 09:45
Reported: 03/05/2011 17:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX047-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/17/2011 19:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231551
Reported: 03/05/11 at 05:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11041162401B	Sample number(s): 6197653-6197656								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11045001	Sample number(s): 6197653-6197656								
2378-TCDD	0.0352 U	0.0352	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0347 J	0.0336	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0225 U	0.0225	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0239 U	0.0239	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0229 U	0.0229	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.144 J	0.0361	5.00	ng/kg	94		70-140		
OCDD	0.305 J	0.0254	10.0	ng/kg	93		78-144		
2378-TCDF	0.0349 U	0.0349	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0309 J	0.0150	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0462 J	0.0163	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0356 J	0.0197	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0220 J	0.0138	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0277 J	0.0199	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0300 J	0.0156	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.0350 J	0.0106	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0167 U	0.0167	5.00	ng/kg	93		78-138		
OCDF	0.227 J	0.0489	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11041162401B	Sample number(s): 6197653-6197656					BKG: P198514			
28a Moisture Content by 160.3						8.0	8.4	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231551
Reported: 03/05/11 at 05:47 PM

Surrogate Quality Control

Batch number: 11045001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6197653	68	79	60	69	63	75
6197654	77	98	74	89	83	83
6197655	75	91	73	86	84	90
6197656	75	98	75	84	80	82
Blank	64	75	57	74	68	61
OPR	63	77	67	77	70	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6197653	81	76	65	87	80	75
6197654	92	85	95	100	96	92
6197655	85	88	90	94	92	86
6197656	94	81	83	93	94	83
Blank	80	61	58	82	80	71
OPR	75	66	72	86	78	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6197653	79	76	90	92	66	77
6197654	91	93	96	106	78	92
6197655	86	88	94	96	74	87
6197656	81	82	90	96	71	92
Blank	72	73	76	84	63	86
OPR	69	65	76	85	64	82
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1231551 Sample# 6197653-56

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Paul Hartman, Carol Stuhlmacher

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/6747-1A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 82608 $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-172-SA5B-SB-2.0-3.0	2.02.2011	1417	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-172-SA5B-SB-2.5	2.02.2011	1415	SOIL	NONE	4-Encores									X	X												
SL-173-SA5B-SB-2.0-3.0	2.02.2011	0942	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-173-SA5B-SB-2.5	2.02.2011	0937	SOIL	NONE	4-Encores									X	X												
SL-209-SA5B-SB-4.0-5.0	2.02.2011	1409	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-209-SA5B-SB-4.5	2.02.2011	1405	SOIL	NONE	4-Encores									X	X												
SL-275-SA5B-SB-3.5-4.5	2.02.2011	0928	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-275-SA5B-SB-4.0	2.02.2011	0925	SOIL	NONE	4-Encores									X	X												
TB-020211	2.02.2011		WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/02/2011 / 17:00 — Received for Laboratory by: (Signature) Gary Hedeen LLI 2/3/11 945

Received by: (Signature) — Date/Time — Airbill No.(s) 8695 1431 9983

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/04/2011
Group Number: 1231732
SDG: DE075
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
EB28-SA5B-020311 Water	6198510
EB29-SA5B-020311 Water	6198511
SL-205-SA5B-SB-2.5-3.5 Soil	6198512
SL-207-SA5B-SB-2.5-3.5 Soil	6198513
SL-210-SA5B-SB-4.0-5.0 Soil	6198514
SL-211-SA5B-SB-4.0-5.0 Soil	6198515
SL-229-SA5B-SB-2.0-3.0 Soil	6198516
SL-230-SA5B-SB-2.0-3.0 Soil	6198517
SL-274-SA5B-SB-4.0-5.0 Soil	6198518
TB-020311 Water	6198519

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Matthew E. Barton
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB28-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198510
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-1 SDG#: DE075-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	9	J	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB28-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198510
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-1 SDG#: DE075-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	58		1
04678	Benzoic acid	65-85-0	6	U	6	14		1
04678	Benzyl alcohol	100-51-6	5	U	5	14		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	14		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB28-SA5B-020311 Water
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198510
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-1 SDG#: DE075-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	14		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	14		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.0096	U	0.0096	0.048		1
10137	Acenaphthylene	208-96-8	0.0096	U	0.0096	0.048		1
10137	Anthracene	120-12-7	0.0096	U	0.0096	0.048		1
10137	Benzo(a)anthracene	56-55-3	0.0096	U	0.0096	0.048		1
10137	Benzo(a)pyrene	50-32-8	0.0096	U	0.0096	0.048		1
10137	Benzo(b)fluoranthene	205-99-2	0.0096	U	0.0096	0.048		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0096	U	0.0096	0.048		1
10137	Benzo(k)fluoranthene	207-08-9	0.0096	U	0.0096	0.048		1
10137	Butylbenzylphthalate	85-68-7	0.048	U	0.048	0.96		1
10137	Di-n-butylphthalate	84-74-2	0.39	J	0.048	0.96		1
10137	Chrysene	218-01-9	0.0096	U	0.0096	0.048		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0096	U	0.0096	0.048		1
10137	Diethylphthalate	84-66-2	0.16	J	0.048	0.96		1
10137	Dimethylphthalate	131-11-3	0.048	U	0.048	0.96		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.071	J	0.048	0.96		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB28-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198510
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-1 SDG#: DE075-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10137	Fluoranthene	206-44-0	0.0096 U	0.0096	0.048		1
10137	Fluorene	86-73-7	0.0096 U	0.0096	0.048		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0096 U	0.0096	0.048		1
10137	1-Methylnaphthalene	90-12-0	0.0096 U	0.0096	0.048		1
10137	2-Methylnaphthalene	91-57-6	0.0096 U	0.0096	0.048		1
10137	Naphthalene	91-20-3	0.014 J	0.0096	0.048		1
10137	N-Nitrosodimethylamine	62-75-9	0.0096 U	0.0096	0.048		1
10137	Di-n-octylphthalate	117-84-0	0.048 U	0.048	0.96		1
10137	Phenanthrene	85-01-8	0.0096 U	0.0096	0.048		1
10137	Pyrene	129-00-0	0.0096 U	0.0096	0.048		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .072 ug/l. The blank value was not subtracted from the analytical result.

Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.096 U	0.096	0.48		1
10227	Aroclor 5442	12642-23-8	0.096 U	0.096	0.48		1
10227	Aroclor 5460	11126-42-4	0.096 U	0.096	0.48		1
10227	PCB-1016	12674-11-2	0.096 U	0.096	0.48		1
10227	PCB-1221	11104-28-2	0.096 U	0.096	0.48		1
10227	PCB-1232	11141-16-5	0.19 U	0.19	0.48		1
10227	PCB-1242	53469-21-9	0.096 U	0.096	0.48		1
10227	PCB-1248	12672-29-6	0.096 U	0.096	0.48		1
10227	PCB-1254	11097-69-1	0.096 U	0.096	0.48		1
10227	PCB-1260	11096-82-5	0.096 U	0.096	0.48		1
10227	PCB-1262	37324-23-5	0.19 U	0.19	0.48		1
10227	PCB-1268	11100-14-4	0.15 U	0.15	0.48		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB28-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198510
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-1 SDG#: DE075-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199 The holding time was not met.	18540-29-9	5.0	U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110382AA	02/07/2011	16:04	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110391AA	02/08/2011	10:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110382AA	02/07/2011	16:04	Nicholas R Rossi	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB28-SA5B-020311 Water
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198510
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-1 SDG#: DE075-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110391AA	02/08/2011 10:03	Jason M Long	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11037WAD026	02/09/2011 10:16	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037WAC026	02/10/2011 09:42	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11037WAD026	02/08/2011 15:35	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11037WAC026	02/08/2011 15:35	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110370021A	02/11/2011 06:18	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110370021A	02/08/2011 03:50	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
08014	Boron	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
01754	Iron	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
01756	Lithium	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
10143	Phosphorus	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
08068	Strontium	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
07069	Tin	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
10144	Zirconium	SW-846 6010B	1	110381848003	02/10/2011 11:10	Eric L Eby	1
06024	Antimony	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06025	Arsenic	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06026	Barium	SW-846 6020	1	110386050002D	02/11/2011 20:33	David K Beck	1
06027	Beryllium	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06028	Cadmium	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06031	Chromium	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06032	Cobalt	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06033	Copper	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06035	Lead	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110386050002C	02/11/2011 20:33	David K Beck	1
06039	Nickel	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06041	Selenium	SW-846 6020	1	110386050002B	02/11/2011 20:33	David K Beck	1
06042	Silver	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06045	Thallium	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06048	Vanadium	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
06049	Zinc	SW-846 6020	1	110386050002A	02/11/2011 20:33	David K Beck	1
00259	Mercury	SW-846 7470A	1	110385713004	02/07/2011 18:55	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110381848003	02/07/2011 19:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110386050002	02/07/2011 19:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110385713004	02/07/2011 15:10	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11043196603D	02/14/2011 17:10	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11040621701A	02/09/2011 13:04	William L Hamaker Jr	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB28-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198510
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-1 SDG#: DE075-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11035495402A	02/08/2011 10:58	Ashley M Adams	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB29-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB29-SA5B-020311

LLI Sample # WW 6198511
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:15

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-2 SDG#: DE075-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB29-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB29-SA5B-020311

LLI Sample # WW 6198511
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:15

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-2 SDG#: DE075-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	4	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	58		1
04678	Benzoic acid	65-85-0	6	U	6	14		1
04678	Benzyl alcohol	100-51-6	5	U	5	14		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	14		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Sample Description: **EB29-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB29-SA5B-020311

LLI Sample # WW 6198511
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E75-2 SDG#: DE075-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	14		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	14		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.0097	U	0.0097	0.048		1
10137	Acenaphthylene	208-96-8	0.0097	U	0.0097	0.048		1
10137	Anthracene	120-12-7	0.0097	U	0.0097	0.048		1
10137	Benzo(a)anthracene	56-55-3	0.0097	U	0.0097	0.048		1
10137	Benzo(a)pyrene	50-32-8	0.0097	U	0.0097	0.048		1
10137	Benzo(b)fluoranthene	205-99-2	0.0097	U	0.0097	0.048		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0097	U	0.0097	0.048		1
10137	Benzo(k)fluoranthene	207-08-9	0.0097	U	0.0097	0.048		1
10137	Butylbenzylphthalate	85-68-7	0.048	U	0.048	0.97		1
10137	Di-n-butylphthalate	84-74-2	0.51	J	0.048	0.97		1
10137	Chrysene	218-01-9	0.0097	U	0.0097	0.048		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0097	U	0.0097	0.048		1
10137	Diethylphthalate	84-66-2	0.16	J	0.048	0.97		1
10137	Dimethylphthalate	131-11-3	0.048	U	0.048	0.97		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.086	J	0.048	0.97		1

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SSFL Area IV Collocated Soil Sampling
EB29-SA5B-020311

LLI Sample # WW 6198511
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E75-2 SDG#: DE075-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10137	Fluoranthene	206-44-0	0.0097 U	0.0097	0.048		1
10137	Fluorene	86-73-7	0.0097 U	0.0097	0.048		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0097 U	0.0097	0.048		1
10137	1-Methylnaphthalene	90-12-0	0.0097 U	0.0097	0.048		1
10137	2-Methylnaphthalene	91-57-6	0.0097 U	0.0097	0.048		1
10137	Naphthalene	91-20-3	0.024 J	0.0097	0.048		1
10137	N-Nitrosodimethylamine	62-75-9	0.0097 U	0.0097	0.048		1
10137	Di-n-octylphthalate	117-84-0	0.048 U	0.048	0.97		1
10137	Phenanthrene	85-01-8	0.0097 U	0.0097	0.048		1
10137	Pyrene	129-00-0	0.0097 U	0.0097	0.048		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .072 ug/l. The blank value was not subtracted from the analytical result.

Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098 U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098 U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098 U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098 U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098 U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20 U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098 U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098 U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098 U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.098 U	0.098	0.49		1
10227	PCB-1262	37324-23-5	0.20 U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16 U	0.16	0.49		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	

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SSFL Area IV Collocated Soil Sampling
EB29-SA5B-020311

LLI Sample # WW 6198511
LLI Group # 1231732
Account # 13013

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CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199 The holding time was not met.	18540-29-9	5.0	U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110382AA	02/07/2011 16:25	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110391AA	02/08/2011 10:23	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110382AA	02/07/2011 16:25	Nicholas R Rossi	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110391AA	02/08/2011 10:23	Jason M Long	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11037WAD026	02/09/2011 10:40	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037WAC026	02/10/2011 10:14	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11037WAD026	02/08/2011 15:35	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11037WAC026	02/08/2011 15:35	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110370021A	02/11/2011 06:37	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110370021A	02/08/2011 03:50	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
08014	Boron	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
01754	Iron	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
01756	Lithium	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
10143	Phosphorus	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
08068	Strontium	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
07069	Tin	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
10144	Zirconium	SW-846 6010B	1	110381848003	02/10/2011 11:14	Eric L Eby	1
06024	Antimony	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06025	Arsenic	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06026	Barium	SW-846 6020	1	110386050002D	02/11/2011 20:36	David K Beck	1
06027	Beryllium	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06028	Cadmium	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06031	Chromium	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06032	Cobalt	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06033	Copper	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06035	Lead	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06038	Molybdenum	SW-846 6020	1	110386050002C	02/11/2011 20:36	David K Beck	1
06039	Nickel	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06041	Selenium	SW-846 6020	1	110386050002B	02/11/2011 20:36	David K Beck	1
06042	Silver	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06045	Thallium	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06048	Vanadium	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
06049	Zinc	SW-846 6020	1	110386050002A	02/11/2011 20:36	David K Beck	1
00259	Mercury	SW-846 7470A	1	110385713004	02/07/2011 18:56	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110381848003	02/07/2011 19:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110386050002	02/07/2011 19:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110385713004	02/07/2011 15:10	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11043196603D	02/14/2011 17:25	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11040621701A	02/09/2011 13:27	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB29-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB29-SA5B-020311

LLI Sample # WW 6198511
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:15

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-2 SDG#: DE075-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11035495402A	02/08/2011 11:10	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-205-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198512
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-3 SDG#: DE075-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.95
06192	Methylene Chloride	75-09-2	0.56	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198512
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-3 SDG#: DE075-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.11	J	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.39
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198512
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-3 SDG#: DE075-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198512
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-3 SDG#: DE075-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		5.63	22.4		1
07914	Boron	7440-42-8	9.17		0.997	5.60		1
01650	Calcium	7440-70-2	2,620		6.87	22.4		1
01654	Iron	7439-89-6	22,200		5.28	22.4		1
01656	Lithium	7439-93-2	30.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,330		2.84	11.2		1
06958	Manganese	7439-96-5	228		0.0874	0.560		1
10145	Phosphorus	7723-14-0	205		0.627	11.2		1
01662	Potassium	7440-09-7	1,610		20.2	56.0		1
01667	Sodium	7440-23-5	141		41.8	112		1
07968	Strontium	7440-24-6	21.4		0.0694	0.560		1
06969	Tin	7440-31-5	3.03	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,210		0.426	1.12		1
10146	Zirconium	7440-67-7	2.48	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0672	U	0.0672	0.224		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-205-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198512
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-3 SDG#: DE075-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.59	0.0896	0.448		2
06126	Barium	7440-39-3	78.2	0.121	0.448		2
06127	Beryllium	7440-41-7	0.638	0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0908 J	0.0448	0.112		2
06131	Chromium	7440-47-3	20.2	0.134	0.448		2
06132	Cobalt	7440-48-4	4.49	0.0224	0.112		2
06133	Copper	7440-50-8	6.82	0.0739	0.448		2
06135	Lead	7439-92-1	4.95	0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.367	0.0560	0.112		2
06139	Nickel	7440-02-0	12.1	0.112	0.448		2
06141	Selenium	7782-49-2	0.0560 J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0557 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.200	0.0336	0.112		2
06148	Vanadium	7440-62-2	35.8	0.0246	0.112		2
06149	Zinc	7440-66-6	47.7	0.627	3.36		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	445	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198512
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-3 SDG#: DE075-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-205-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 15:41	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 13:06	Jason M Long	20.39
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103523639	02/04/2011 13:43	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 02:37	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 11:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110390023A	02/09/2011 18:22	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 21:02	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110390023A	02/09/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:50	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-205-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198512
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-3 SDG#: DE075-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:13	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:13	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 12:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11047047201A	02/21/2011 20:26	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/11/2011 18:46	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11047047201A	02/16/2011 13:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198513
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-4 SDG#: DE075-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.29	J	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.92
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.92
06192	Methylene Chloride	75-09-2	0.43	J	0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.92

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198513
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-4 SDG#: DE075-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.1	J	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	1.0	J	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.92
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.81
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198513
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-4 SDG#: DE075-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198513
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-4 SDG#: DE075-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.69	22.6		1
07914	Boron	7440-42-8	1.01	U	1.01	5.65		1
01650	Calcium	7440-70-2	2,490		6.93	22.6		1
01654	Iron	7439-89-6	23,800		5.32	22.6		1
01656	Lithium	7439-93-2	20.8		0.25	2.3		1
01657	Magnesium	7439-95-4	5,130		2.87	11.3		1
06958	Manganese	7439-96-5	196		0.0882	0.565		1
10145	Phosphorus	7723-14-0	182		0.633	11.3		1
01662	Potassium	7440-09-7	1,480		20.3	56.5		1
01667	Sodium	7440-23-5	128		42.2	113		1
07968	Strontium	7440-24-6	18.7		0.0701	0.565		1
06969	Tin	7440-31-5	3.01	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,260		0.429	1.13		1
10146	Zirconium	7440-67-7	2.02	J	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.148	J	0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.04		0.0913	0.457		2
06126	Barium	7440-39-3	67.8		0.123	0.457		2

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Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198513
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-4 SDG#: DE075-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.585		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.105	J	0.0457	0.114		2
06131	Chromium	7440-47-3	22.2		0.137	0.457		2
06132	Cobalt	7440-48-4	6.74		0.0228	0.114		2
06133	Copper	7440-50-8	8.43		0.0753	0.457		2
06135	Lead	7439-92-1	6.06		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.602		0.0571	0.114		2
06139	Nickel	7440-02-0	10.3		0.114	0.457		2
06141	Selenium	7782-49-2	0.141	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.230		0.0137	0.114		2
06145	Thallium	7440-28-0	0.208		0.0342	0.114		2
06148	Vanadium	7440-62-2	41.4		0.0251	0.114		2
06149	Zinc	7440-66-6	48.3		0.639	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	445		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198513
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-4 SDG#: DE075-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-207-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 16:03	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 13:26	Jason M Long	22.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 13:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103523639	02/04/2011 13:46	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 03:04	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 11:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 21:20	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:54	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198513
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-4 SDG#: DE075-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:16	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:16	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 13:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11047047201A	02/21/2011 21:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/11/2011 18:58	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11047047201A	02/16/2011 13:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-210-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198514
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-5 SDG#: DE075-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.97
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.97
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.97
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.97
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.97
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.97
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.97
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.97
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.97
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.97
06192	Methylene Chloride	75-09-2	0.50	J	0.25	4.2		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.97

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198514
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-5 SDG#: DE075-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.97
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.97
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.97

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		25.25
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

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Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198514
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-5 SDG#: DE075-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1

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Sample Description: SL-210-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198514
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-5 SDG#: DE075-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.36	21.3		1
07914	Boron	7440-42-8	0.948	U	0.948	5.33		1
01650	Calcium	7440-70-2	3,330		6.53	21.3		1
01654	Iron	7439-89-6	24,300		5.02	21.3		1
01656	Lithium	7439-93-2	28.2		0.23	2.1		1
01657	Magnesium	7439-95-4	5,800		2.71	10.7		1
06958	Manganese	7439-96-5	295		0.0831	0.533		1
10145	Phosphorus	7723-14-0	419		0.597	10.7		1
01662	Potassium	7440-09-7	1,910		19.2	53.3		1
01667	Sodium	7440-23-5	100	J	39.7	107		1
07968	Strontium	7440-24-6	18.6		0.0661	0.533		1
06969	Tin	7440-31-5	2.94	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,380		0.405	1.07		1
10146	Zirconium	7440-67-7	2.19	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.107	J	0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.87		0.0836	0.418		2
06126	Barium	7440-39-3	82.0		0.113	0.418		2

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Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198514
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-5 SDG#: DE075-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.455		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.138		0.0418	0.105		2
06131	Chromium	7440-47-3	21.4		0.125	0.418		2
06132	Cobalt	7440-48-4	5.59		0.0209	0.105		2
06133	Copper	7440-50-8	7.91		0.0690	0.418		2
06135	Lead	7439-92-1	4.09		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.317		0.0523	0.105		2
06139	Nickel	7440-02-0	14.1		0.105	0.418		2
06141	Selenium	7782-49-2	0.102	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.0125	U	0.0125	0.105		2
06145	Thallium	7440-28-0	0.249		0.0314	0.105		2
06148	Vanadium	7440-62-2	38.7		0.0230	0.105		2
06149	Zinc	7440-66-6	54.9		0.585	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0109	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	464		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198514
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-5 SDG#: DE075-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-210-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 16:26	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 13:46	Jason M Long	25.25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 13:49	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103523639	02/04/2011 13:49	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 03:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 12:19	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 22:16	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 20:58	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198514
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-5 SDG#: DE075-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:19	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:19	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 13:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11047047201A	02/21/2011 22:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/11/2011 19:11	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11047047201A	02/16/2011 13:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-211-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198515
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-6 SDG#: DE075-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.8
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.8
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.8
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.8
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.8
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.6		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.8
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.8
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.8
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.6		0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.8
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.8
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.6		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6		0.8
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.8
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.8
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.6		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.8
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.8
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.8
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.8
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.8
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.3		0.8
06192	Methylene Chloride	75-09-2	0.33	J	0.22	3.6		0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.8

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-211-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198515
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-6 SDG#: DE075-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.8
06192	Toluene	108-88-3	0.07	U	0.07	3.6		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.6		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6		0.8
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.8
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.8
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.8

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		19.69
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-211-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198515
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-6 SDG#: DE075-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-211-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198515
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-6 SDG#: DE075-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.69	22.6		1
07914	Boron	7440-42-8	1.60	J	1.01	5.66		1
01650	Calcium	7440-70-2	2,370		6.93	22.6		1
01654	Iron	7439-89-6	19,800		5.33	22.6		1
01656	Lithium	7439-93-2	18.6		0.25	2.3		1
01657	Magnesium	7439-95-4	3,820		2.87	11.3		1
06958	Manganese	7439-96-5	311		0.0882	0.566		1
10145	Phosphorus	7723-14-0	379		0.633	11.3		1
01662	Potassium	7440-09-7	3,520		20.4	56.6		1
01667	Sodium	7440-23-5	73.6	J	42.2	113		1
07968	Strontium	7440-24-6	22.0		0.0701	0.566		1
06969	Tin	7440-31-5	2.58	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,170		0.430	1.13		1
10146	Zirconium	7440-67-7	2.28	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	U	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.17		0.0879	0.439		2
06126	Barium	7440-39-3	103		0.119	0.439		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-211-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198515
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-6 SDG#: DE075-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.506	0.0176	0.110		2
06128	Cadmium	7440-43-9	0.236	0.0439	0.110		2
06131	Chromium	7440-47-3	17.4	0.132	0.439		2
06132	Cobalt	7440-48-4	5.30	0.0220	0.110		2
06133	Copper	7440-50-8	10.3	0.0725	0.439		2
06135	Lead	7439-92-1	4.83	0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.612	0.0549	0.110		2
06139	Nickel	7440-02-0	11.3	0.110	0.439		2
06141	Selenium	7782-49-2	0.129 J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0630 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.264	0.0329	0.110		2
06148	Vanadium	7440-62-2	31.1	0.0242	0.110		2
06149	Zinc	7440-66-6	50.5	0.615	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059 J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	476	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-211-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198515
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-6 SDG#: DE075-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-211-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 16:48	Chelsea B Eastep	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 14:06	Jason M Long	19.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 13:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103523639	02/04/2011 13:52	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 03:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 12:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 22:35	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 21:02	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-211-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198515
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-6 SDG#: DE075-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:22	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:22	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 14:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11047047201A	02/21/2011 22:51	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11041243201A	02/11/2011 19:23	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11047047201A	02/16/2011 13:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-229-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.4		1.06
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.06
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.06
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7		1.06
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7		1.06
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.06
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7		1.06
06192	2-Butanone	78-93-3	1.4	U	1.4	9.4		1.06
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.06
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.06
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.06
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7		1.06
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.06
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.06
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7		1.06
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.06
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7		1.06
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7		1.06
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7		1.06
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9		1.06
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7		1.06
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7		1.06
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.06
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7		1.06
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7		1.06
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.06
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.06
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.06
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.06
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.06
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7		1.06
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7		1.06
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.06
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.06
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7		1.06
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.06
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.06
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.06
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.06
06192	Ethylbenzene	100-41-4	0.21	J	0.07	4.7		1.06
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.06
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9		1.06
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7		1.06
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.4		1.06
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.06
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.06
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7		1.06
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.4		1.06
06192	Methylene Chloride	75-09-2	0.57	J	0.28	4.7		1.06
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.06

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-229-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.06
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.06
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.06
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7		1.06
06192	Toluene	108-88-3	0.10	J	0.09	4.7		1.06
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7		1.06
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.06
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7		1.06
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7		1.06
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.06
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.06
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7		1.06
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.06
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.06
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7		1.06
06192	m+p-Xylene	179601-23-1	0.81	J	0.20	4.7		1.06
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.06
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25.3
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-229-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1

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Sample Description: **SL-229-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1

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Sample Description: SL-229-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.7	U	7.7	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-229-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.44	21.6		1
07914	Boron	7440-42-8	0.962	U	0.962	5.40		1
01650	Calcium	7440-70-2	1,910		6.63	21.6		1
01654	Iron	7439-89-6	21,100		5.09	21.6		1
01656	Lithium	7439-93-2	19.6		0.24	2.2		1
01657	Magnesium	7439-95-4	4,170		2.75	10.8		1
06958	Manganese	7439-96-5	226		0.0843	0.540		1
10145	Phosphorus	7723-14-0	223		0.605	10.8		1
01662	Potassium	7440-09-7	2,690		19.5	54.0		1
01667	Sodium	7440-23-5	754		40.3	108		1
07968	Strontium	7440-24-6	15.9		0.0670	0.540		1
06969	Tin	7440-31-5	3.09	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,120		0.411	1.08		1
10146	Zirconium	7440-67-7	0.996	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0655	U	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.77		0.0873	0.437		2
06126	Barium	7440-39-3	70.4		0.118	0.437		2
06127	Beryllium	7440-41-7	0.500		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.117		0.0437	0.109		2
06131	Chromium	7440-47-3	12.1		0.131	0.437		2
06132	Cobalt	7440-48-4	4.18		0.0218	0.109		2
06133	Copper	7440-50-8	3.74		0.0720	0.437		2
06135	Lead	7439-92-1	3.62		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.325		0.0546	0.109		2
06139	Nickel	7440-02-0	5.70		0.109	0.437		2
06141	Selenium	7782-49-2	0.0771	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0131	U	0.0131	0.109		2
06145	Thallium	7440-28-0	0.227		0.0327	0.109		2
06148	Vanadium	7440-62-2	25.2		0.0240	0.109		2
06149	Zinc	7440-66-6	50.0		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-229-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	496		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.29		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-229-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 20:34	Chelsea B Eastep	1.06
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 14:26	Jason M Long	25.3
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 13:55	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: SL-229-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103523639	02/04/2011 14:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103523639	02/04/2011 14:05	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103523639	02/04/2011 13:56	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11035SLD026	02/11/2011 20:53	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 04:24	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 13:22	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11035SLD026	02/05/2011 09:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34B	02/10/2011 14:27	Elizabeth J Marin	25
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 13:55	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110370014A	02/12/2011 01:34	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110360004A	02/07/2011 20:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 22:53	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110360004A	02/06/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110370014A	02/07/2011 12:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110400026A	02/11/2011 05:37	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110350025A	02/04/2011 21:16	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110420003A	02/11/2011 19:50	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110370016A	02/09/2011 12:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110400026A	02/10/2011 07:30	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110370016A	02/07/2011 21:15	Karen L Beyer	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110420003A	02/11/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110350025A	02/04/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-229-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198516
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-7 SDG#: DE075-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 21:06	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:25	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:25	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 14:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11046046201A	02/16/2011 14:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11047047201A	02/21/2011 23:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11041243201A	02/11/2011 19:30	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11041102201A	02/10/2011 18:32	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11047047201A	02/16/2011 13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11041102201A	02/10/2011 15:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-230-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-8 SDG#: DE075-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.17	J	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	0.53	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-8 SDG#: DE075-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.56	J	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.44
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-8 SDG#: DE075-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-8 SDG#: DE075-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	140	J	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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Sample Description: SL-230-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-8 SDG#: DE075-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

1,3-Dinitrobenzene was detected in the method blank at a concentration of 77 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction are within the QC limits. Similar results were obtained in both extractions, except 1,3-dinitrobenzene was not detected in the reextraction. The original extraction results are reported.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	11	U	11	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

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Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-8 SDG#: DE075-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
	Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.70	22.7		1
07914	Boron	7440-42-8	1.01	U	1.01	5.67		1
01650	Calcium	7440-70-2	1,850		6.95	22.7		1
01654	Iron	7439-89-6	17,900		5.34	22.7		1
01656	Lithium	7439-93-2	38.9		0.25	2.3		1
01657	Magnesium	7439-95-4	3,000		2.88	11.3		1
06958	Manganese	7439-96-5	182		0.0885	0.567		1
10145	Phosphorus	7723-14-0	434		0.635	11.3		1
01662	Potassium	7440-09-7	1,990		20.4	56.7		1
01667	Sodium	7440-23-5	570		42.3	113		1
07968	Strontium	7440-24-6	12.8		0.0703	0.567		1
06969	Tin	7440-31-5	3.34	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,130		0.431	1.13		1
10146	Zirconium	7440-67-7	1.38	J	0.953	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0674	U	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.06		0.0898	0.449		2
06126	Barium	7440-39-3	62.3		0.121	0.449		2
06127	Beryllium	7440-41-7	0.411		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0654	J	0.0449	0.112		2
06131	Chromium	7440-47-3	6.43		0.135	0.449		2
06132	Cobalt	7440-48-4	3.54		0.0225	0.112		2
06133	Copper	7440-50-8	2.93		0.0741	0.449		2
06135	Lead	7439-92-1	4.89		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.301		0.0562	0.112		2
06139	Nickel	7440-02-0	5.21		0.112	0.449		2
06141	Selenium	7782-49-2	0.0689	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0135	U	0.0135	0.112		2
06145	Thallium	7440-28-0	0.245		0.0337	0.112		2
06148	Vanadium	7440-62-2	17.3		0.0247	0.112		2
06149	Zinc	7440-66-6	60.8		0.629	3.37		2

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Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E75-8 SDG#: DE075-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	502		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.79		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-230-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 20:56	Chelsea B Eastep	0.88

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Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
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E75-8 SDG#: DE075-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 14:46	Jason M Long	21.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 13:59	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103523639	02/04/2011 14:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103523639	02/04/2011 14:05	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103523639	02/04/2011 13:59	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11035SLD026	02/11/2011 21:09	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11037SLA026	02/10/2011 04:50	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 13:54	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11035SLD026	02/05/2011 09:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11037SLA026	02/07/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34B	02/10/2011 15:03	Elizabeth J Marin	21.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 13:58	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110370014A	02/12/2011 03:41	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110360004A	02/07/2011 20:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 23:12	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110360004A	02/06/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110370014A	02/07/2011 12:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110400026A	02/11/2011 06:51	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110350025A	02/04/2011 22:00	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110420003A	02/11/2011 20:42	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110370016A	02/09/2011 15:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110400026A	02/10/2011 07:30	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110370016A	02/07/2011 21:15	Karen L Beyer	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110420003A	02/11/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110350025A	02/04/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198517
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-8 SDG#: DE075-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 21:09	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:28	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:28	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:28	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:28	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 14:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11046046201A	02/16/2011 14:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11047047201A	02/21/2011 23:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11041243201A	02/11/2011 19:42	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11041102201A	02/10/2011 18:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11047047201A	02/16/2011 13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11041102201A	02/10/2011 15:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-274-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198518
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-9 SDG#: DE075-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.11	J	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.83
06192	Methylene Chloride	75-09-2	0.45	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.83

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Sample Description: **SL-274-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198518
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-9 SDG#: DE075-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.83
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.33	J	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.63
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-274-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198518
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-9 SDG#: DE075-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-274-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198518
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-9 SDG#: DE075-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.4		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.4		2
10225	Aroclor 5460	11126-42-4	17		2.2	7.4		2
10225	PCB-1016	12674-11-2	0.74	U	0.74	3.8		2
10225	PCB-1221	11104-28-2	0.74	U	0.74	3.8		2
10225	PCB-1232	11141-16-5	0.74	U	0.74	3.8		2
10225	PCB-1242	53469-21-9	0.74	U	0.74	3.8		2
10225	PCB-1248	12672-29-6	0.74	U	0.74	3.8		2
10225	PCB-1254	11097-69-1	0.74	U	0.74	3.8		2
10225	PCB-1260	11096-82-5	22		0.87	3.8		2
10225	PCB-1262	37324-23-5	0.74	U	0.74	3.8		2
10225	PCB-1268	11100-14-4	0.74	U	0.74	3.8		2
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		5.64	22.4		1
07914	Boron	7440-42-8	1.70	J	0.998	5.61		1
01650	Calcium	7440-70-2	3,700		6.87	22.4		1
01654	Iron	7439-89-6	23,200		5.28	22.4		1
01656	Lithium	7439-93-2	28.7		0.25	2.2		1
01657	Magnesium	7439-95-4	4,810		2.85	11.2		1
06958	Manganese	7439-96-5	324		0.0874	0.561		1
10145	Phosphorus	7723-14-0	354		0.628	11.2		1
01662	Potassium	7440-09-7	3,160		20.2	56.1		1
01667	Sodium	7440-23-5	97.8	J	41.8	112		1
07968	Strontium	7440-24-6	28.2		0.0695	0.561		1
06969	Tin	7440-31-5	2.90	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,280		0.426	1.12		1
10146	Zirconium	7440-67-7	2.50	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	U	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.44		0.0879	0.440		2
06126	Barium	7440-39-3	96.5		0.119	0.440		2

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Sample Description: **SL-274-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198518
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-9 SDG#: DE075-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.507		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.239		0.0440	0.110		2
06131	Chromium	7440-47-3	17.3		0.132	0.440		2
06132	Cobalt	7440-48-4	5.03		0.0220	0.110		2
06133	Copper	7440-50-8	9.30		0.0725	0.440		2
06135	Lead	7439-92-1	5.59		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.641		0.0550	0.110		2
06139	Nickel	7440-02-0	11.2		0.110	0.440		2
06141	Selenium	7782-49-2	0.124	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.492		0.0132	0.110		2
06145	Thallium	7440-28-0	0.242		0.0330	0.110		2
06148	Vanadium	7440-62-2	30.1		0.0242	0.110		2
06149	Zinc	7440-66-6	49.5		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0095	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	469		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-274-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198518
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-9 SDG#: DE075-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-274-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 17:56	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 15:06	Jason M Long	20.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103523639	02/04/2011 14:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103523639	02/04/2011 14:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103523639	02/04/2011 14:05	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103523639	02/04/2011 14:02	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 09:15	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11037SLB026	02/10/2011 14:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11037SLB026	02/07/2011 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 23:30	Andrea J Covey	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
07914	Boron	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
01654	Iron	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
01656	Lithium	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
06969	Tin	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110355708002	02/09/2011 21:13	John P Hook	1
06124	Antimony	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06125	Arsenic	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06126	Barium	SW-846 6020	1	110351026001D	02/12/2011 03:32	David K Beck	2
06127	Beryllium	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	110351026001A	02/16/2011 05:15	David K Beck	2
06131	Chromium	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06133	Copper	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2

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Sample Description: **SL-274-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198518
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75-9 SDG#: DE075-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110351026001C	02/12/2011 03:32	David K Beck	2
06139	Nickel	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06141	Selenium	SW-846 6020	1	110351026001B	02/12/2011 03:32	David K Beck	2
06142	Silver	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06145	Thallium	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
06149	Zinc	SW-846 6020	1	110351026001A	02/12/2011 03:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	110355711002	02/07/2011 12:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110355708002	02/06/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110351026001	02/06/2011 21:00	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110355711002	02/06/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11046046201A	02/16/2011 14:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11047047201A	02/22/2011 00:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11041243201A	02/11/2011 20:07	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11046046201A	02/15/2011 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11047047201A	02/16/2011 13:45	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11041243201A	02/10/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-020311 Water
SSFL Area IV Collocated Soil Sampling
TB-020311

LLI Sample # WW 6198519
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75TB SDG#: DE075-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-020311 Water
SSFL Area IV Collocated Soil Sampling
TB-020311

LLI Sample # WW 6198519
LLI Group # 1231732
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/02/2011

Submitted: 02/04/2011 09:50
Reported: 03/02/2011 14:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E75TB SDG#: DE075-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110382AA	02/07/2011	16:45	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110391AA	02/08/2011	10:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110382AA	02/07/2011	16:45	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110391AA	02/08/2011	10:43	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11038D20A	02/08/2011	13:54	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11038D20A	02/08/2011	13:54	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110381AA	Sample number(s): 6198512-6198518									
Acetone	6.7	U	6.7	8.0	ug/kg	92	93	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	100	100	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	100	94	79-120	6	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	96	98	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	88	88	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	86	84	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	90	94	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	88	103	72-120	16	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	98	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	93	89	75-120	4	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	97	94	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97	96	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	84	80	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	77	81	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	97	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	90	90	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	100	78-120	7	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	109	103	79-120	5	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	65	60	22-131	8	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93	89	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	96	96	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	94	96	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	98	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	88	102	79-120	15	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92	97	78-120	6	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	86	93	79-120	8	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71	70	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	99	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	95	97	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	93	92	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	96	95	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98	95	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	95	98	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99	99	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	91	92	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	79*	82	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	84	86	77-120	3	30
Ethylbenzene	0.08	J	0.06	4.0	ug/kg	91	90	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	94	91	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	85	80	78-120	6	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	95	87	57-120	9	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	64	66	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	85	84	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	86	85	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	88	88	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	66	67	61-134	2	30
Methylene Chloride	0.40	J	0.24	4.0	ug/kg	88	90	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	116	108	77-120	7	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	93	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	98	96	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	113	108	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	96	93	77-120	3	30
Toluene	0.31	J	0.08	4.0	ug/kg	98	97	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	91	86	64-120	5	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	81	75	68-120	7	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	102	80-120	4	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	92	93	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	86	84	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	108	106	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	103	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	101	78-120	6	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	87	87	53-120	0	30
m+p-Xylene	0.20	J	0.17	4.0	ug/kg	97	96	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	84	84	80-120	0	30
Batch number: E110381AA	Sample number(s): 6198512-6198518									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	107	103	70-130	4	30
Batch number: E110391AA	Sample number(s): 6198510-6198511,6198519									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	107	102	60-132	5	30
Batch number: Y110382AA	Sample number(s): 6198510-6198511,6198519									
Acetone	6	U	6.	20	ug/l	87	83	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	105	103	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	104	103	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	105	104	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	103	103	80-120	0	30
Bromoform	1	U	1.	5	ug/l	98	94	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	88	87	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	100	98	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	104	103	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	109	106	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	98	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	90	88	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	111	108	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	106	104	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	99	97	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	107	106	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	104	104	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	68	70	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	107	108	66-120	1	30
Dibromochloromethane	1	U	1.	5	ug/l	99	97	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	104	102	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	102	100	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	82	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	105	104	79-120	1	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	107	107	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	92	93	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	102	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	101	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	103	104	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	107	105	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	99	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	104	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	98	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	103	101	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	105	103	79-120	1	30
Freon 113	2	U	2.	10	ug/l	90	89	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	80	80	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	90	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	105	103	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	102	101	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	107	105	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	106	104	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	103	102	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	99	96	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	111	110	80-120	1	30
Styrene	1	U	1.	5	ug/l	103	101	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	110	108	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	94	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	105	104	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	101	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	100	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	89	89	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	102	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	102	100	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	86	85	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	111	106	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	108	108	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	108	107	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	86	85	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	102	100	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
Batch number: 11035SLD026	Sample number(s): 6198516-6198517									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	101		70-130		
Batch number: 11037SLA026	Sample number(s): 6198512-6198517									
Aniline	170 U		170.	500	ug/kg	55		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	98		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	98		68-131		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	75		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	111		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	71		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	64		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	97		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	104		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11037SLB026	Sample number(s): 6198512-6198518									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	92		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	96		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	92		68-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	132		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	97		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	104		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	104		56-121		
Batch number: 11037WAC026	Sample number(s): 6198510-6198511									
Acenaphthene	0.010	U	0.010	0.050	ug/l	97	86	74-109	11	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	86	70-110	12	30
Anthracene	0.010	U	0.010	0.050	ug/l	97	87	66-111	12	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	108	99	72-114	9	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	98	86	60-127	12	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	105	94	69-123	11	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	102	92	57-131	10	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	98	90	59-130	8	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	82	66	40-138	22	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	94	83	74-131	13	30
Chrysene	0.010	U	0.010	0.050	ug/l	105	96	76-116	9	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	97	88	55-134	10	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	84	73	57-134	14	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	65	52	40-119	23	30
Bis(2-Ethylhexyl)phthalate	0.072	J	0.050	1.0	ug/l	120	106	57-154	12	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	99	90	75-116	10	30
Fluorene	0.010	U	0.010	0.050	ug/l	104	93	75-114	11	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	97	88	69-124	10	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	85	71-117	10	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	88	79	75-115	10	30
Naphthalene	0.010	U	0.010	0.050	ug/l	91	82	72-109	11	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	59	59	36-89	0	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	105	92	57-145	14	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	97	88	76-111	10	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	95	69-118	9	30
Batch number: 11037WAD026	Sample number(s): 6198510-6198511									
Aniline	1	U	1.	5	ug/l	61	74	49-101	18	30
Benzidine	20	U	20.	60	ug/l	64	76	34-117	17	30
Benzoic acid	6	U	6.	15	ug/l	38	24	10-69	45*	30
Benzyl alcohol	5	U	5.	15	ug/l	73	74	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	102	95	82-117	8	30
Carbazole	1	U	1.	5	ug/l	94	92	81-114	3	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	88	70-123	5	30
4-Chloroaniline	1	U	1.	5	ug/l	48	69	42-124	36*	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	88	74-124	4	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	90	89	77-108	1	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	93	91	62-127	3	30
2-Chloronaphthalene	2	U	2.	5	ug/l	89	68	54-132	26	30
2-Chlorophenol	1	U	1.	5	ug/l	91	91	77-108	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	95	93	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	95	92	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	89	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	87	88	50-119	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	87	89	53-119	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	65	76	49-111	17	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	95	94	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	93	91	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	98	98	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	82	76*	78-119	8	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	63	60	52-131	5	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	93	92	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	93	92	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	95	78-116	5	30
Hexachlorobenzene	1	U	1.	5	ug/l	101	97	81-118	4	30
Hexachlorobutadiene	1	U	1.	5	ug/l	93	94	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	69	71	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	82	86	52-113	4	30
Isophorone	1	U	1.	5	ug/l	93	89	74-117	5	30
2-Methylphenol	1	U	1.	5	ug/l	82	82	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	77	80	61-103	4	30
2-Nitroaniline	1	U	1.	5	ug/l	92	91	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	87	87	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	76	80	59-100	6	30
Nitrobenzene	1	U	1.	5	ug/l	92	92	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	93	90	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	40	38	16-78	5	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	91	87	69-110	4	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	92	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	83	74	53-110	11	30
Phenol	1	U	1.	5	ug/l	40	43	21-67	8	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	90	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	93	79-107	5	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	96	92	81-113	5	30
Batch number: 11041SLD026	Sample number(s): 6198518									
Aniline	170 U		170.	500	ug/kg	66		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	67		15-121		
Benzoic acid	170 U		170.	500	ug/kg	99		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	91		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	53		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	87		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	93		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	79		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	71		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	93		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	79		51-117		
Phenol	17	U	17.	170	ug/kg	105		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	85		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11035A34B	Sample number(s): 6198516-6198517									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	69	67-119	1	30
Batch number: 11038D20A	Sample number(s): 6198519									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110370014A	Sample number(s): 6198516-6198517									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	109		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	105		54-134		
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	105	107	54-134	2	30
1,3-Dinitrobenzene	77	J	40.	120	ug/kg	120		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100	U	100.	300	ug/kg	98		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	103		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	105		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	103		80-120		
PETN	800	U	800.	2,400	ug/kg	112		80-120		
RDX	50	U	50.	120	ug/kg	109		75-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 110360004A	Sample number(s): 6198516-6198517									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 110390023A	Sample number(s): 6198512									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110370021A	Sample number(s): 6198510-6198511									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	72	44	35-84	48*	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	94	68-119	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	98	102	68-121	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110480028A	Sample number(s): 6198512-6198518									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	82	75	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	73		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	90		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110400026A	Sample number(s): 6198516-6198517									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	85		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	87		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	81		66-113		
Batch number: 110350025A	Sample number(s): 6198516-6198517									
Ethanol	100 U		100.	500	ug/kg	95		75-112		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	97		75-134		
Batch number: 110420003A	Sample number(s): 6198516-6198517									
Diethylene glycol	5.0	U	5.0	13	mg/kg	93		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110370016A	Sample number(s): 6198516-6198517									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		75-125		
Batch number: 110351026001A	Sample number(s): 6198512-6198518									
Antimony	0.0600	U	0.0600	0.200	mg/kg	110		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	108		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	110		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	99		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	109		78-122		
Batch number: 110351026001B	Sample number(s): 6198512-6198518									
Selenium	0.0400	U	0.0400	0.400	mg/kg	107		79-122		
Batch number: 110351026001C	Sample number(s): 6198512-6198518									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 110351026001D	Sample number(s): 6198512-6198518									
Barium	0.108	U	0.108	0.400	mg/kg	107		79-121		
Batch number: 110355708002	Sample number(s): 6198512-6198518									
Aluminum	5.03	U	5.03	20.0	mg/kg	96		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	0.560	U	0.560	10.0	mg/kg	100		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		79-121		
Tin	1.48	J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	100		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	99		80-120		
Batch number: 110355711002	Sample number(s): 6198512-6198518									
Mercury	0.0028	U	0.0028	0.0980	mg/kg	99		88-123		
Batch number: 110381848003	Sample number(s): 6198510-6198511									
Aluminum	0.0834	U	0.0834	0.200	mg/l	95	95	90-112	0	20
Boron	0.0138	U	0.0138	0.0500	mg/l	96	95	90-110	1	20
Calcium	0.0702	U	0.0702	0.200	mg/l	98	99	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	99	98	90-112	1	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	99	105	80-120	6	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	99	100	89-110	0	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	98	98	90-110	1	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	99	98	80-120	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Potassium	0.239 U	0.239	0.500	mg/l	98	106	85-115	8	20
Sodium	0.433 U	0.433	1.00	mg/l	98	102	87-114	5	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	101	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	97	97	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	99	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	98	101	80-120	2	20
Batch number: 110385713004	Sample number(s): 6198510-6198511								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	112	104	80-120	7	20
Batch number: 110386050002A	Sample number(s): 6198510-6198511								
Antimony	0.00030 U	0.00030	0.0010	mg/l	110	116*	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	101	107	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	102	105	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	99	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	103	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	94	98	80-120	4	20
Copper	0.00038 U	0.00038	0.0020	mg/l	102	106	90-113	4	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	101	101	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	102	104	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	105	104	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	99	98	89-116	1	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	103	103	80-120	0	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	106	113	80-120	6	20
Batch number: 110386050002B	Sample number(s): 6198510-6198511								
Selenium	0.00025 U	0.00025	0.0020	mg/l	102	109	85-114	6	20
Batch number: 110386050002C	Sample number(s): 6198510-6198511								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	80-120	1	20
Batch number: 110386050002D	Sample number(s): 6198510-6198511								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	101	88-113	4	20
Batch number: 11035495402A	Sample number(s): 6198510-6198511								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	100	90-110	0	20
Batch number: 11040621701A	Sample number(s): 6198510-6198511								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	93	85-115	3	20
Batch number: 11041102201A	Sample number(s): 6198516-6198517								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11041243201A	Sample number(s): 6198512-6198518								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11043196603D	Sample number(s): 6198510-6198511								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	91	94	90-110	4	20
Batch number: 11046046201A	Sample number(s): 6198512-6198518								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11047047201A	Sample number(s): 6198512-6198518								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	103		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11039039402A	Sample number(s): 6198512-6198518								
22a pH by 9045C					100		95-105		
Batch number: 11039182102A	Sample number(s): 6198512-6198518								
32a OR Potential					99		98-102		
Batch number: 11041162401B	Sample number(s): 6198512-6198515,6198518								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11054162401A	Sample number(s): 6198516								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11055162401A	Sample number(s): 6198517								
28a Moisture Content by 160.3					99		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11035SLD026	Sample number(s): 6198516-6198517 UNSPK: P197571								
N-Nitrosodimethylamine	89	92	70-130	4	30				
Batch number: 11037SLA026	Sample number(s): 6198512-6198517 UNSPK: P197581								
Aniline	69	61	35-95	11	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	92	96	10-173	5	30				
Benzyl alcohol	95	91	67-115	4	30				
4-Bromophenyl-phenylether	86	88	67-129	2	30				
Carbazole	96	94	64-120	2	30				
4-Chloro-3-methylphenol	90	94	76-110	4	30				
4-Chloroaniline	58	59	23-95	1	30				
bis(2-Chloroethoxy)methane	87	90	75-104	4	30				
bis(2-Chloroethyl)ether	91	89	60-116	2	30				
bis(2-Chloroisopropyl)ether	95	93	55-142	3	30				
2-Chloronaphthalene	71	78	50-141	10	30				
2-Chlorophenol	94	97	73-121	2	30				
4-Chlorophenyl-phenylether	89	90	80-109	1	30				
Dibenzofuran	94	92	71-112	2	30				
1,2-Dichlorobenzene	82	86	66-108	5	30				
1,3-Dichlorobenzene	80	78	63-109	3	30				
1,4-Dichlorobenzene	84	82	70-100	2	30				
3,3'-Dichlorobenzidine	63	63	16-119	0	30				
2,4-Dichlorophenol	89	93	78-117	5	30				
2,4-Dimethylphenol	87	95	78-110	8	30				
3,5-Dimethylphenol	99	110	70-130	11	30				
4,6-Dinitro-2-methylphenol	84	85	24-116	1	30				
2,4-Dinitrophenol	79	78	20-143	1	30				
2,4-Dinitrotoluene	98	98	73-113	0	30				
2,6-Dinitrotoluene	95	95	69-123	0	30				
1,2-Diphenylhydrazine	103	103	71-129	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Ethylhexyl)phthalate	108	106	63-122	2	30				
Hexachlorobenzene	93	90	77-114	3	30				
Hexachlorobutadiene	74	78	62-120	5	30				
Hexachlorocyclopentadiene	65	69	10-153	7	30				
Hexachloroethane	78	79	57-109	2	30				
Isophorone	87	90	73-102	3	30				
2-Methylphenol	95	99	75-111	4	30				
4-Methylphenol	91	94	71-111	3	30				
2-Nitroaniline	98	95	67-125	3	30				
3-Nitroaniline	91	92	59-122	1	30				
4-Nitroaniline	78	75	52-112	4	30				
Nitrobenzene	90	94	72-106	5	30				
2-Nitrophenol	86	94	74-115	9	30				
4-Nitrophenol	88	88	54-113	0	30				
N-Nitroso-di-n-propylamine	91	92	60-116	1	30				
N-Nitrosodiphenylamine	96	94	86-145	2	30				
Pentachlorophenol	80	83	28-127	3	30				
Phenol	101	105	58-126	4	30				
1,2,4-Trichlorobenzene	81	84	72-115	4	30				
2,4,5-Trichlorophenol	96	95	78-109	1	30				
2,4,6-Trichlorophenol	91	93	77-115	2	30				
Batch number: 11037SLB026	Sample number(s): 6198512-6198518 UNSPK: P197581								
Acenaphthene	91	93	63-105	2	30				
Acenaphthylene	92	92	67-114	0	30				
Anthracene	99	95	60-122	3	30				
Benzo(a)anthracene	114	112	59-128	2	30				
Benzo(a)pyrene	93	96	45-138	4	30				
Benzo(b)fluoranthene	100	103	43-155	3	30				
Benzo(g,h,i)perylene	101	105	33-141	4	30				
Benzo(k)fluoranthene	95	101	42-144	6	30				
Butylbenzylphthalate	126	119	57-173	6	30				
Di-n-butylphthalate	113	108	65-148	5	30				
Chrysene	107	105	48-134	2	30				
Dibenz(a,h)anthracene	97	99	22-133	2	30				
Diethylphthalate	101	97	70-136	4	30				
Dimethylphthalate	104	105	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	124	113	39-167	8	30				
Fluoranthene	103	105	26-166	2	30				
Fluorene	100	100	66-122	1	30				
Indeno(1,2,3-cd)pyrene	97	99	21-143	3	30				
1-Methylnaphthalene	91	93	72-123	2	30				
2-Methylnaphthalene	83	84	64-103	1	30				
Naphthalene	92	93	61-102	1	30				
N-Nitrosodimethylamine	91	95	48-113	4	30				
Di-n-octylphthalate	109	113	40-192	3	30				
Phenanthrene	97	97	12-165	1	30				
Pyrene	107	104	15-153	2	30				
Batch number: 11041SLD026	Sample number(s): 6198518 UNSPK: P201155								
Aniline	62	70	35-95	12	30				
Benzidine	16*	0*	35-141	200*	30				
Benzoic acid	79	89	10-173	12	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzyl alcohol	90	91	67-115	2	30				
4-Bromophenyl-phenylether	89	88	67-129	1	30				
Carbazole	98	98	64-120	0	30				
4-Chloro-3-methylphenol	93	95	76-110	2	30				
4-Chloroaniline	61	74	23-95	20	30				
bis(2-Chloroethoxy)methane	91	95	75-104	4	30				
bis(2-Chloroethyl)ether	94	92	60-116	2	30				
bis(2-Chloroisopropyl)ether	98	93	55-142	5	30				
2-Chloronaphthalene	86	86	50-141	0	30				
2-Chlorophenol	98	97	73-121	1	30				
4-Chlorophenyl-phenylether	86	87	80-109	2	30				
Dibenzofuran	95	95	71-112	0	30				
1,2-Dichlorobenzene	86	87	66-108	1	30				
1,3-Dichlorobenzene	87	85	63-109	3	30				
1,4-Dichlorobenzene	86	86	70-100	0	30				
3,3'-Dichlorobenzidine	44	58	16-119	27	30				
2,4-Dichlorophenol	94	96	78-117	2	30				
2,4-Dimethylphenol	92	94	78-110	2	30				
3,5-Dimethylphenol	103	110	70-130	7	30				
4,6-Dinitro-2-methylphenol	78	79	24-116	1	30				
2,4-Dinitrophenol	70	71	20-143	1	30				
2,4-Dinitrotoluene	94	91	73-113	3	30				
2,6-Dinitrotoluene	99	96	69-123	3	30				
1,2-Diphenylhydrazine	111	109	71-129	1	30				
Hexachlorobenzene	92	91	77-114	2	30				
Hexachlorobutadiene	81	83	62-120	2	30				
Hexachlorocyclopentadiene	72	75	10-153	5	30				
Hexachloroethane	88	86	57-109	2	30				
Isophorone	91	94	73-102	3	30				
2-Methylphenol	101	102	75-111	1	30				
4-Methylphenol	93	94	71-111	1	30				
2-Nitroaniline	103	101	67-125	2	30				
3-Nitroaniline	98	99	59-122	1	30				
4-Nitroaniline	72	81	52-112	12	30				
Nitrobenzene	94	99	72-106	5	30				
2-Nitrophenol	88	99	74-115	12	30				
4-Nitrophenol	86	88	54-113	2	30				
N-Nitroso-di-n-propylamine	93	95	60-116	3	30				
N-Nitrosodiphenylamine	97	97	86-145	1	30				
Pentachlorophenol	81	81	28-127	0	30				
Phenol	102	107	58-126	4	30				
1,2,4-Trichlorobenzene	87	87	72-115	0	30				
2,4,5-Trichlorophenol	91	92	78-109	2	30				
2,4,6-Trichlorophenol	91	89	77-115	2	30				
Batch number: 11035A34B	Sample number(s): 6198516-6198517 UNSPK: P197571								
9a TPH by EPA 8015B Gas C5-C12	60	60	39-118	6	30				
Batch number: 110370014A	Sample number(s): 6198516-6198517 UNSPK: P197571								
4-Amino-2,6-Dinitrotoluene	107	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	107	80-137	2	50				
1,3-Dinitrobenzene	88	59	38-166	24	50				
2,4-Dinitrotoluene	102	103	80-131	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,6-Dinitrotoluene	108	108	80-127	0	50				
HMX	95	97	63-128	1	50				
Nitrobenzene	99	100	80-125	1	50				
Nitroglycerin	94	95	80-120	1	50				
2-Nitrotoluene	102	103	80-122	0	50				
3-Nitrotoluene	103	103	72-119	0	50				
4-Nitrotoluene	101	101	80-125	0	50				
PETN	113	114	80-121	1	50				
RDX	96	97	75-129	2	50				
Tetryl	84	85	55-174	1	50				
1,3,5-Trinitrobenzene	101	103	82-126	2	50				
2,4,6-Trinitrotoluene	103	104	82-130	1	50				
Batch number: 110360004A	Sample number(s): 6198516-6198517 UNSPK: P197571								
17a Formaldehyde by 8315A	93	94	80-120	2	50				
Batch number: 110390023A	Sample number(s): 6198512 UNSPK: P196805								
6a Perchlorate EPA 6850	104	103	80-120	1	20				
Batch number: 110480028A	Sample number(s): 6198512-6198518 UNSPK: 6198513								
PCB-1016	70	82	29-146	16	50				
PCB-1260	83	103	39-149	22	50				
Batch number: 110400026A	Sample number(s): 6198516-6198517 UNSPK: 6198516								
EFH (C12-C14)	77	79	49-123	2	20				
EFH (C15-C20)	100	98	49-123	2	20				
EFH (C21-C30)	107	106	49-123	1	20				
EFH (C30 - C40)	102	97	49-123	5	20				
EFH (C8-C11)	13*	18*	49-123	31*	20				
Batch number: 110350025A	Sample number(s): 6198516-6198517 UNSPK: P197571								
Ethanol	82	84	24-143	3	20				
Isopropanol	81	83	75-125	2	20				
Methanol	86	89	45-136	4	20				
Batch number: 110420003A	Sample number(s): 6198516-6198517 UNSPK: P197571								
Diethylene glycol	49*	63	59-109	25*	20				
Ethylene glycol	74	79	63-107	7	20				
Propylene glycol	74	79	63-107	6	20				
Batch number: 110370016A	Sample number(s): 6198516-6198517 UNSPK: 6198516								
m-Terphenyl	103	103	75-125	0	20				
o-Terphenyl	103	104	75-125	1	20				
p-Terphenyl	89	89	75-125	1	20				
Batch number: 110351026001A	Sample number(s): 6198512-6198518 UNSPK: P197581 BKG: P197581								
Antimony	48*	46*	75-125	1	20	0.0982 J	0.111 J	13 (1)	20
Arsenic	100	112	75-125	5	20	3.89	4.45	13	20
Beryllium	86	91	75-125	6	20	0.494	0.522	6	20
Cadmium	102	92	75-125	6	20	0.137	0.106	26* (1)	20
Chromium	96	93	75-125	0	20	15.5	16.7	8	20
Cobalt	89	84	75-125	2	20	4.64	4.45	4	20
Copper	94	86	75-125	3	20	7.36	7.36	0	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	99	104	75-125	3	20	4.36	4.46	2	20
Nickel	98	89	75-125	3	20	9.64	9.63	0	20
Silver	99	100	75-125	4	20	0.0176 J	0.0252 J	35* (1)	20
Thallium	99	96	75-125	0	20	0.223	0.211	6 (1)	20
Vanadium	105	97	75-125	1	20	27.9	29.9	7	20
Zinc	72*	77	75-125	1	20	38.3	37.2	3	20
Batch number: 110351026001B	Sample number(s): 6198512-6198518 UNSPK: P197581 BKG: P197581								
Selenium	99	99	75-125	3	20	0.113 J	0.142 J	23* (1)	20
Batch number: 110351026001C	Sample number(s): 6198512-6198518 UNSPK: P197581 BKG: P197581								
Molybdenum	95	94	75-125	2	20	0.540	0.570	5	20
Batch number: 110351026001D	Sample number(s): 6198512-6198518 UNSPK: P197581 BKG: P197581								
Barium	138 (2)	159 (2)	75-125	3	20	77.9	79.2	2	20
Batch number: 110355708002	Sample number(s): 6198512-6198518 UNSPK: P197581 BKG: P197581								
Aluminum	2451 (2)	2710 (2)	75-125	3	20	13,500	13,700	2	20
Boron	93	92	84-115	0	20	1.53 J	1.29 J	16 (1)	20
Calcium	189 (2)	186 (2)	75-125	0	20	1,840	1,860	1	20
Iron	2864 (2)	2285 (2)	75-125	3	20	15,500	15,700	1	20
Lithium	101	101	82-114	0	20	14.3	14.6	2	20
Magnesium	323 (2)	330 (2)	75-125	0	20	2,880	2,990	4	20
Manganese	160 (2)	100 (2)	75-125	9	20	260	255	2	20
Phosphorus	115	110	75-125	2	20	191	182	5	20
Potassium	136*	132*	75-125	1	20	2,300	2,240	2	20
Sodium	97	97	75-125	0	20	75.4 J	75.9 J	1 (1)	20
Strontium	96	95	75-115	1	20	18.0	18.2	1	20
Tin	92	92	80-110	0	20	2.50 J	2.43 J	3 (1)	20
Titanium	341 (2)	311 (2)	75-125	2	20	1,030	1,040	1	20
Zirconium	94	93	75-125	0	20	2.55 J	2.70 J	6 (1)	20
Batch number: 110355711002	Sample number(s): 6198512-6198518 UNSPK: P197581 BKG: P197581								
Mercury	102	100	65-135	2	20	0.0027 U	0.0034 J	200* (1)	20
Batch number: 11041102201A	Sample number(s): 6198516-6198517 UNSPK: P197571 BKG: P197571								
21a Cyanide by 9012B	109		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11041243201A	Sample number(s): 6198512-6198518 UNSPK: P196808 BKG: P196808								
3a Cr VI by EPA 7199	89		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11046046201A	Sample number(s): 6198512-6198518 UNSPK: P197571 BKG: P197571								
11a Anions by 300.0 - Fluoride	58*		80-120			2.1	2.1	3 (1)	20
11a Anions by 300.0 - Nitrate	106		80-120			1.4 J	1.4 J	3 (1)	20
Batch number: 11047047201A	Sample number(s): 6198512-6198518 UNSPK: 6198512 BKG: 6198512								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11039039402A	Sample number(s): 6198512-6198518 BKG: 6198512								
22a pH by 9045C						6.84	6.85	0	1

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11039182102A	Sample number(s): 6198512-6198518 BKG: 6198512								
32a OR Potential						445	444	0	6
Batch number: 11041162401B	Sample number(s): 6198512-6198515,6198518 BKG: 6198514								
28a Moisture Content by 160.3						8.0	8.4	5	20
Batch number: 11054162401A	Sample number(s): 6198516 BKG: P201155								
28a Moisture Content by 160.3						10.5	11.7	11	20
Batch number: 11055162401A	Sample number(s): 6198517 BKG: P208348								
28a Moisture Content by 160.3						9.6	6.7	35*	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6198512	109	104	100	86
6198513	112	106	100	85
6198514	113	109	99	83
6198515	115	113	97	84
6198516	115	112	99	82
6198517	115	110	98	84
6198518	115	110	101	79
Blank	110	106	99	86
LCS	99	102	107	107
LCSD	99	102	106	106
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110381AA

	Toluene-d8
6198512	95
6198513	94
6198514	95
6198515	95
6198516	95
6198517	94
6198518	94
Blank	95
LCS	96
LCSD	95
Limits:	70-130

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Surrogate Quality Control

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110391AA

	Toluene-d8
6198510	96
6198511	95
6198519	96
Blank	96
LCS	96
LCSD	96
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110382AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6198510	96	97	102	99
6198511	97	99	102	98
6198519	98	99	102	98
Blank	99	100	103	100
LCS	100	102	103	101
LCSD	99	101	102	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C
Batch number: 11035SLD026

	N-Nitrosodimethylamine-d6
6198516	80
6198517	78
Blank	83
LCS	83
MS	81
MSD	73
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11037SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6198512	108	105	106	90	88	94
6198513	105	101	103	84	80	93
6198514	104	102	108	87	82	98
6198515	117	108	120	87	89	94
6198516	106	102	111	84	82	91
6198517	112	109	116	92	88	94
Blank	88	89	94	84	91	99
LCS	100	100	96	89	90	98
MS	95	95	99	83	89	94
MSD	99	98	97	90	90	91
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11037SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6198512	91	90	103
6198513	91	86	100
6198514	96	91	108
6198515	100	96	111
6198516	96	91	109
6198517	94	88	101
6198518	99	93	107
Blank	96	91	113
LCS	100	90	107
MS	104	94	111
MSD	109	99	108
Limits:	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11037WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6198510	89	85	97
6198511	99	91	105
Blank	90	89	104
LCS	101	94	103
LCSD	89	85	93
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11037WAD026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6198510	39	23	64	73	80	90
6198511	47	28	77	82	86	90
Blank	49	30	85	81	85	87
LCS	56	34	92	87	90	96
LCSD	59	37	91	85	88	91
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11041SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6198518	97	100	85	89	90	89
Blank	86	89	83	85	86	87
LCS	97	98	92	88	89	88
MS	96	96	92	92	92	88
MSD	97	97	91	94	92	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11035A34B

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Surrogate Quality Control

	Trifluorotoluene-F
6198516	74
6198517	76
Blank	88
LCS	87
LCSD	86
MS	72
MSD	70
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11038D20A

	Trifluorotoluene-F
6198519	67
Blank	68
LCS	96
LCSD	102
Limits:	63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110360004A

	Butyraldehyde
6198516	102
6198517	81
Blank	105
LCS	103
MS	101
MSD	100
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110370014A

	2-Nitro-m-xylene
6198516	130
6198517	119
Blank	125
LCS	119
LCSD	123
MS	124
MSD	122
Limits:	80-146

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110370021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6198510	89	82
6198511	89	80
Blank	95	86

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Surrogate Quality Control

LCS	99	91
LCSD	103	102
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110480028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6198512	78	80
6198513	87	101
6198514	59	82
6198515	86	106
6198516	81	93
6198517	72	89
6198518	87	114
Blank	87	110
LCS	92	121*
LCSD	81	106
MS	73	89
MSD	88	123*
Limits:	53-139	45-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 110350025A

	Acetone
6198516	82
6198517	79
Blank	93
LCS	92
MS	77
MSD	79
Limits:	42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110370016A

	n-Triacontane-d62
6198516	111
6198517	104
Blank	112
LCS	109
MS	112
MSD	108
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110400026A

	Chlorobenzene	Orthoterphenyl
6198516	72	88
6198517	76	88
Blank	74	85

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231732
Reported: 03/02/11 at 02:20 PM

Surrogate Quality Control

LCS	78	88
MS	74	93
MSD	75	91
Limits:	37-125	47-145

Analysis Name: 27a Glycols by 8015B
Batch number: 110420003A

	Tetramethylene glycol
6198516	51
6198517	41
Blank	87
LCS	91
MS	70
MSD	72
Limits:	29-137

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(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1231732 Sample# 6198510-19

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hale, Chad Main

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB28-SA5B-020311	2.03.2011	1130	WATER	HCl	6-40 mL VOA vials									X	X												
EB28-SA5B-020311	2.03.2011	1130	WATER	NONE	4-1L amber jars			X	X	X																	
EB28-SA5B-020311	2.03.2011	1130	WATER	NONE	1-500 mL poly		X				X	X															
EB28-SA5B-020311	2.03.2011	1130	WATER	HNO3	1-500 mL poly	X																					
EB29-SA5B-020311	2.03.2011	1415	WATER	HCl	6-40 mL VOA vials									X	X												
EB29-SA5B-020311	2.03.2011	1415	WATER	NONE	4-1L amber jars			X	X	X																	
EB29-SA5B-020311	2.03.2011	1415	WATER	NONE	1-500 mL poly		X				X	X															
EB29-SA5B-020311	2.03.2011	1415	WATER	HNO3	1-500 mL poly	X																					
SL-205-SA5B-SB-2.5-3.5	2.03.2011	0947	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-205-SA5B-SB-3.0	2.03.2011	0943	SOIL	NONE	4-Encores									X	X												
SL-207-SA5B-SB-2.5-3.5	2.03.2011	0932	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-207-SA5B-SB-3.0	2.03.2011	0930	SOIL	NONE	4-Encores									X	X												
SL-210-SA5B-SB-4.0-5.0	2.03.2011	1034	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-210-SA5B-4.5	2.03.2011	1032	SOIL	NONE	4-Encores									X	X												
SL-211-SA5B-SB-4.0-5.0	2.03.2011	1348	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-211-SA5B-SB-4.5	2.03.2011	1346	SOIL	NONE	4-Encores									X	X												
SL-229-SA5B-SB-2.0-3.0	2.03.2011	1308	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-229-SA5B-SB-2.5	2.03.2011	1305	SOIL	NONE	5-Encores									X	X	X											
SL-230-SA5B-SB-2.0-3.0	2.03.2011	1519	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-230-SA5B-SB-2.5	2.03.2011	1515	SOIL	NONE	5-Encores									X	X	X											
SL-274-SA5B-SB-4.0-5.0	2.03.2011	1437	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-274-SA5B-SB-4.5	2.03.2011	1435	SOIL	NONE	4-Encores									X	X												
TB-020311	2.02.2011		WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/03/2011 / 17:00

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) — 2/4/11 950

Airbill No.(s): 8695 1432 0921, ...0932

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/04/2011
Group Number: 1231734
SDG: DX047
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
EB28-SA5B-020311 Water	6198524
EB29-SA5B-020311 Water	6198525
SL-205-SA5B-SB-2.5-3.5 Soil	6198526
SL-207-SA5B-SB-2.5-3.5 Soil	6198527
SL-210-SA5B-SB-4.0-5.0 Soil	6198528
SL-211-SA5B-SB-4.0-5.0 Soil	6198529
SL-229-SA5B-SB-2.0-3.0 Soil	6198530
SL-230-SA5B-SB-2.0-3.0 Soil	6198531
SL-274-SA5B-SB-4.0-5.0 Soil	6198532

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **EB28-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198524
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX047-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.125	JBQ	0.0859	1.90	1
10915	12378-PeCDD	40321-76-4	0.111	U	0.111	9.52	1
10915	123478-HxCDD	39227-28-6	0.114	U	0.114	9.52	1
10915	123678-HxCDD	57653-85-7	0.113	U	0.113	9.52	1
10915	123789-HxCDD	19408-74-3	0.106	U	0.106	9.52	1
10915	1234678-HpCDD	35822-46-9	1.09	JB	0.134	9.52	1
10915	OCDD	3268-87-9	2.90	JBQ	0.181	19.0	1
10915	2378-TCDF	51207-31-9	0.0862	U	0.0862	1.90	1
10915	12378-PeCDF	57117-41-6	0.0815	U	0.0815	9.52	1
10915	23478-PeCDF	57117-31-4	0.289	JB	0.0835	9.52	1
10915	123478-HxCDF	70648-26-9	0.131	U	0.131	9.52	1
10915	123678-HxCDF	57117-44-9	0.103	U	0.103	9.52	1
10915	123789-HxCDF	72918-21-9	0.118	JBQ	0.0872	9.52	1
10915	234678-HxCDF	60851-34-5	0.190	JB	0.0884	9.52	1
10915	1234678-HpCDF	67562-39-4	0.256	JBQ	0.104	9.52	1
10915	1234789-HpCDF	55673-89-7	0.102	JBQ	0.0920	9.52	1
10915	OCDF	39001-02-0	0.485	JBQ	0.145	19.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	50	25 - 181
13C12-123478-HxCDD	51	32 - 141
13C12-123678-HxCDD	53	28 - 130
13C12-123789-HxCDD	54	28 - 130
13C12-1234678-HpCDD	53	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	46	24 - 169
13C12-12378-PeCDF	43	24 - 185
13C12-23478-PeCDF	40	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	43	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	33	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB28-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB28-SA5B-020311

LLI Sample # WW 6198524
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 11:30

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX047-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11043001	02/18/2011 16:44	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11043001	02/12/2011 07:15	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB29-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB29-SA5B-020311

LLI Sample # WW 6198525
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:15

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX047-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.220	JBQ	0.187	1.91	1
10915	12378-PeCDD	40321-76-4	0.406	JBQ	0.199	9.53	1
10915	123478-HxCDD	39227-28-6	0.308	JQ	0.180	9.53	1
10915	123678-HxCDD	57653-85-7	0.394	JBQ	0.176	9.53	1
10915	123789-HxCDD	19408-74-3	0.252	JBQ	0.154	9.53	1
10915	1234678-HpCDD	35822-46-9	1.88	JBQ	0.256	9.53	1
10915	OCDD	3268-87-9	6.53	JB	0.327	19.1	1
10915	2378-TCDF	51207-31-9	0.139	U	0.139	1.91	1
10915	12378-PeCDF	57117-41-6	0.155	JBQ	0.102	9.53	1
10915	23478-PeCDF	57117-31-4	0.517	JBQ	0.102	9.53	1
10915	123478-HxCDF	70648-26-9	0.311	JBQ	0.185	9.53	1
10915	123678-HxCDF	57117-44-9	0.405	JBQ	0.141	9.53	1
10915	123789-HxCDF	72918-21-9	0.535	JBQ	0.105	9.53	1
10915	234678-HxCDF	60851-34-5	0.339	JB	0.0974	9.53	1
10915	1234678-HpCDF	67562-39-4	0.763	JB	0.142	9.53	1
10915	1234789-HpCDF	55673-89-7	0.496	JB	0.116	9.53	1
10915	OCDF	39001-02-0	1.32	JBQ	0.207	19.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	50	25 - 181
13C12-123478-HxCDD	38	32 - 141
13C12-123678-HxCDD	42	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	43	23 - 140
13C12-OCDD	40	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	51	24 - 185
13C12-23478-PeCDF	49	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	34	26 - 123
13C12-234678-HxCDF	47	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	31	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB29-SA5B-020311 Water**
SSFL Area IV Collocated Soil Sampling
EB29-SA5B-020311

LLI Sample # WW 6198525
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:15

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX047-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11043001	03/03/2011 02:17	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11043001	02/12/2011 07:15	Deborah M Zimmerman	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198526
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX047-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-205-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198526
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX047-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0307 U	0.0307	1.13	1
11031	12378-PeCDD	40321-76-4	0.0262 U	0.0262	5.66	1
11031	123478-HxCDD	39227-28-6	0.0190 U	0.0190	5.66	1
11031	123678-HxCDD	57653-85-7	0.0352 JQ	0.0192	5.66	1
11031	123789-HxCDD	19408-74-3	0.0483 J	0.0195	5.66	1
11031	1234678-HpCDD	35822-46-9	0.101 JBQ	0.0298	5.66	1
11031	OCDD	3268-87-9	0.547 JBQ	0.0260	11.3	1
11031	2378-TCDF	51207-31-9	0.0322 U	0.0322	1.13	1
11031	12378-PeCDF	57117-41-6	0.0137 U	0.0137	5.66	1
11031	23478-PeCDF	57117-31-4	0.0256 JBQ	0.0121	5.66	1
11031	123478-HxCDF	70648-26-9	0.0187 JBQ	0.0115	5.66	1
11031	123678-HxCDF	57117-44-9	0.00928 U	0.00928	5.66	1
11031	123789-HxCDF	72918-21-9	0.0171 JBQ	0.0127	5.66	1
11031	234678-HxCDF	60851-34-5	0.0193 JBQ	0.0106	5.66	1
11031	1234678-HpCDF	67562-39-4	0.0320 JBQ	0.0105	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0228 JQ	0.0175	5.66	1
11031	OCDF	39001-02-0	0.0696 JBQ	0.0399	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-205-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198526
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX047-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5B-SB-2.5-3.5

LLI Sample # SW 6198526
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:47

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX047-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/17/2011 20:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198527
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX047-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198527
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX047-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0346 U	0.0346	1.14	1
11031	12378-PeCDD	40321-76-4	0.0581 JBQ	0.0333	5.71	1
11031	123478-HxCDD	39227-28-6	0.0667 JQ	0.0337	5.71	1
11031	123678-HxCDD	57653-85-7	0.186 JQ	0.0353	5.71	1
11031	123789-HxCDD	19408-74-3	0.176 JQ	0.0345	5.71	1
11031	1234678-HpCDD	35822-46-9	3.56 JB	0.0481	5.71	1
11031	OCDD	3268-87-9	50.1 B	0.0446	11.4	1
11031	2378-TCDF	51207-31-9	0.0365 U	0.0365	1.14	1
11031	12378-PeCDF	57117-41-6	0.0167 JBQ	0.0159	5.71	1
11031	23478-PeCDF	57117-31-4	0.0563 JBQ	0.0143	5.71	1
11031	123478-HxCDF	70648-26-9	0.0229 JBQ	0.0205	5.71	1
11031	123678-HxCDF	57117-44-9	0.0272 JB	0.0156	5.71	1
11031	123789-HxCDF	72918-21-9	0.0457 JBQ	0.0196	5.71	1
11031	234678-HxCDF	60851-34-5	0.0306 JBQ	0.0168	5.71	1
11031	1234678-HpCDF	67562-39-4	0.333 JBQ	0.0183	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0641 JQ	0.0256	5.71	1
11031	OCDF	39001-02-0	0.967 JB	0.0467	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198527
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX047-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-207-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5B-SB-2.5-3.5

LLI Sample # SW 6198527
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 09:32

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX047-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/17/2011 21:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198528
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX047-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198528
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX047-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0335	U	0.0335	1.09	1
11031	12378-PeCDD	40321-76-4	0.0263	U	0.0263	5.43	1
11031	123478-HxCDD	39227-28-6	0.0198	U	0.0198	5.43	1
11031	123678-HxCDD	57653-85-7	0.0210	U	0.0210	5.43	1
11031	123789-HxCDD	19408-74-3	0.0275	JQ	0.0202	5.43	1
11031	1234678-HpCDD	35822-46-9	0.178	JB	0.0307	5.43	1
11031	OCDD	3268-87-9	1.07	JB	0.0261	10.9	1
11031	2378-TCDF	51207-31-9	0.0310	U	0.0310	1.09	1
11031	12378-PeCDF	57117-41-6	0.0273	JBQ	0.0145	5.43	1
11031	23478-PeCDF	57117-31-4	0.0513	JBQ	0.0129	5.43	1
11031	123478-HxCDF	70648-26-9	0.0156	JBQ	0.0126	5.43	1
11031	123678-HxCDF	57117-44-9	0.0103	U	0.0103	5.43	1
11031	123789-HxCDF	72918-21-9	0.0218	JBQ	0.0136	5.43	1
11031	234678-HxCDF	60851-34-5	0.0192	JBQ	0.0117	5.43	1
11031	1234678-HpCDF	67562-39-4	0.0184	JBQ	0.00880	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0117	U	0.0117	5.43	1
11031	OCDF	39001-02-0	0.0929	JBQ	0.0291	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	86	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198528
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX047-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-210-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-210-SA5B-SB-4.0-5.0

LLI Sample # SW 6198528
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 10:34

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX047-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/17/2011 22:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198529
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX047-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-211-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198529
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX047-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0344 U	0.0344	1.13	1
11031	12378-PeCDD	40321-76-4	0.0631 JBQ	0.0316	5.66	1
11031	123478-HxCDD	39227-28-6	0.0243 U	0.0243	5.66	1
11031	123678-HxCDD	57653-85-7	0.0939 J	0.0247	5.66	1
11031	123789-HxCDD	19408-74-3	0.175 J	0.0245	5.66	1
11031	1234678-HpCDD	35822-46-9	0.498 JB	0.0420	5.66	1
11031	OCDD	3268-87-9	4.60 JB	0.0278	11.3	1
11031	2378-TCDF	51207-31-9	0.0310 U	0.0310	1.13	1
11031	12378-PeCDF	57117-41-6	0.0482 JBQ	0.0163	5.66	1
11031	23478-PeCDF	57117-31-4	0.0514 JBQ	0.0144	5.66	1
11031	123478-HxCDF	70648-26-9	0.0396 JBQ	0.0170	5.66	1
11031	123678-HxCDF	57117-44-9	0.0172 JBQ	0.0138	5.66	1
11031	123789-HxCDF	72918-21-9	0.102 JB	0.0170	5.66	1
11031	234678-HxCDF	60851-34-5	0.0294 JBQ	0.0147	5.66	1
11031	1234678-HpCDF	67562-39-4	0.0839 JB	0.0101	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0161 U	0.0161	5.66	1
11031	OCDF	39001-02-0	0.241 JBQ	0.0433	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198529
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX047-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-211-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-211-SA5B-SB-4.0-5.0

LLI Sample # SW 6198529
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:48

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX047-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/17/2011 23:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-229-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198530
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX047-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-229-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198530
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX047-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0497 JQ	0.0319	1.10	1
11031	12378-PeCDD	40321-76-4	0.0800 JBQ	0.0290	5.51	1
11031	123478-HxCDD	39227-28-6	0.0204 U	0.0204	5.51	1
11031	123678-HxCDD	57653-85-7	0.0219 U	0.0219	5.51	1
11031	123789-HxCDD	19408-74-3	0.0310 JQ	0.0215	5.51	1
11031	1234678-HpCDD	35822-46-9	0.202 JB	0.0348	5.51	1
11031	OCDD	3268-87-9	0.680 JB	0.0255	11.0	1
11031	2378-TCDF	51207-31-9	0.0412 JQ	0.0293	1.10	1
11031	12378-PeCDF	57117-41-6	0.0711 JBQ	0.0131	5.51	1
11031	23478-PeCDF	57117-31-4	0.103 JBQ	0.0139	5.51	1
11031	123478-HxCDF	70648-26-9	0.0453 JB	0.0169	5.51	1
11031	123678-HxCDF	57117-44-9	0.0293 JBQ	0.0129	5.51	1
11031	123789-HxCDF	72918-21-9	0.0829 JBQ	0.0172	5.51	1
11031	234678-HxCDF	60851-34-5	0.0345 JBQ	0.0147	5.51	1
11031	1234678-HpCDF	67562-39-4	0.0679 JBQ	0.0114	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0170 U	0.0170	5.51	1
11031	OCDF	39001-02-0	0.124 JBQ	0.0378	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-229-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198530
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX047-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-229-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-229-SA5B-SB-2.0-3.0

LLI Sample # SW 6198530
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 13:08

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX047-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 03:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198531
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX047-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-230-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198531
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX047-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0304	U	0.0304	1.15	1
11031	12378-PeCDD	40321-76-4	0.0260	U	0.0260	5.73	1
11031	123478-HxCDD	39227-28-6	0.0261	U	0.0261	5.73	1
11031	123678-HxCDD	57653-85-7	0.176	JQ	0.0265	5.73	1
11031	123789-HxCDD	19408-74-3	0.163	J	0.0246	5.73	1
11031	1234678-HpCDD	35822-46-9	0.377	JB	0.0339	5.73	1
11031	OCDD	3268-87-9	1.54	JB	0.0265	11.5	1
11031	2378-TCDF	51207-31-9	0.0254	U	0.0254	1.15	1
11031	12378-PeCDF	57117-41-6	0.0213	JBQ	0.0126	5.73	1
11031	23478-PeCDF	57117-31-4	0.0434	JBQ	0.0134	5.73	1
11031	123478-HxCDF	70648-26-9	0.0308	JBQ	0.0173	5.73	1
11031	123678-HxCDF	57117-44-9	0.162	JB	0.0125	5.73	1
11031	123789-HxCDF	72918-21-9	0.0433	JBQ	0.0126	5.73	1
11031	234678-HxCDF	60851-34-5	0.0246	JBQ	0.0117	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0305	JBQ	0.0116	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0278	JQ	0.0143	5.73	1
11031	OCDF	39001-02-0	0.110	JBQ	0.0349	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198531
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX047-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-230-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-230-SA5B-SB-2.0-3.0

LLI Sample # SW 6198531
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 15:19

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX047-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 03:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-274-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198532
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4713 SDG#: DX047-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-274-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198532
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4713 SDG#: DX047-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	U	0.0344	1.12	1
11031	12378-PeCDD	40321-76-4	0.0952	JBQ	0.0467	5.61	1
11031	123478-HxCDD	39227-28-6	0.159	JQ	0.0565	5.61	1
11031	123678-HxCDD	57653-85-7	0.656	JQ	0.0595	5.61	1
11031	123789-HxCDD	19408-74-3	0.480	J	0.0564	5.61	1
11031	1234678-HpCDD	35822-46-9	15.8	B	0.0583	5.61	1
11031	OCDD	3268-87-9	284	B	0.0509	11.2	1
11031	2378-TCDF	51207-31-9	0.147	J	0.0689	1.12	1
11031	12378-PeCDF	57117-41-6	0.0314	U	0.0314	5.61	1
11031	23478-PeCDF	57117-31-4	0.360	JB	0.0281	5.61	1
11031	123478-HxCDF	70648-26-9	0.450	JB	0.0400	5.61	1
11031	123678-HxCDF	57117-44-9	0.109	JB	0.0314	5.61	1
11031	123789-HxCDF	72918-21-9	0.114	JBQ	0.0406	5.61	1
11031	234678-HxCDF	60851-34-5	0.131	JB	0.0340	5.61	1
11031	1234678-HpCDF	67562-39-4	1.84	JB	0.0207	5.61	1
11031	1234789-HpCDF	55673-89-7	0.204	J	0.0296	5.61	1
11031	OCDF	39001-02-0	4.26	JB	0.0376	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	105	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	88	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-274-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198532
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4713 SDG#: DX047-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-274-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-274-SA5B-SB-4.0-5.0

LLI Sample # SW 6198532
LLI Group # 1231734
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/03/2011 14:37

Submitted: 02/04/2011 09:50
Reported: 03/12/2011 13:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4713 SDG#: DX047-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 04:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401B	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231734
Reported: 03/12/11 at 01:17 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11041162401B	Sample number(s): 6198526-6198529,6198532									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11054162401A	Sample number(s): 6198530									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11055162401A	Sample number(s): 6198531									
28a Moisture Content by 160.3						99		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11043001	Sample number(s): 6198524-6198525									
2378-TCDD	0.280	J	0.0800	2.00	pg/l	95		67-158		
12378-PeCDD	0.302	J	0.0907	10.0	pg/l	104		70-142		
123478-HxCDD	0.109	U	0.109	10.0	pg/l	107		70-164		
123678-HxCDD	0.265	J	0.107	10.0	pg/l	106		76-134		
123789-HxCDD	0.299	J	0.0985	10.0	pg/l	106		64-162		
1234678-HpCDD	1.32	J	0.134	10.0	pg/l	111		70-140		
OCDD	3.21	J	0.208	20.0	pg/l	113		78-144		
2378-TCDF	0.0816	U	0.0816	2.00	pg/l	97		75-158		
12378-PeCDF	0.243	J	0.0736	10.0	pg/l	101		80-134		
23478-PeCDF	0.481	J	0.0748	10.0	pg/l	99		68-160		
123478-HxCDF	0.390	J	0.129	10.0	pg/l	112		72-134		
123678-HxCDF	0.165	J	0.107	10.0	pg/l	111		84-130		
123789-HxCDF	0.485	J	0.0962	10.0	pg/l	108		78-130		
234678-HxCDF	0.289	J	0.0923	10.0	pg/l	109		70-156		
1234678-HpCDF	0.392	J	0.115	10.0	pg/l	115		82-122		
1234789-HpCDF	0.331	J	0.108	10.0	pg/l	115		78-138		
OCDF	0.775	J	0.186	20.0	pg/l	117		63-170		
Batch number: 11045001	Sample number(s): 6198526-6198532									
2378-TCDD	0.0352	U	0.0352	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0347	J	0.0336	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0225	U	0.0225	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0239	U	0.0239	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0229	U	0.0229	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.144	J	0.0361	5.00	ng/kg	94		70-140		
OCDD	0.305	J	0.0254	10.0	ng/kg	93		78-144		
2378-TCDF	0.0349	U	0.0349	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0309	J	0.0150	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0462	J	0.0163	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0356	J	0.0197	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0220	J	0.0138	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0277	J	0.0199	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0300	J	0.0156	5.00	ng/kg	94		70-156		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231734
Reported: 03/12/11 at 01:17 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.0350 J	0.0106	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0167 U	0.0167	5.00	ng/kg	93		78-138		
OCDF	0.227 J	0.0489	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11041162401B	Sample number(s): 6198526-6198529,6198532 BKG: P198514								
28a Moisture Content by 160.3						8.0	8.4	5	20
Batch number: 11054162401A	Sample number(s): 6198530 BKG: P201155								
28a Moisture Content by 160.3						10.5	11.7	11	20
Batch number: 11055162401A	Sample number(s): 6198531 BKG: P208348								
28a Moisture Content by 160.3						9.6	6.7	35*	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11043001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6198524	58	40	29	36	43	46
6198525	50	49	27	34	47	50
Blank	76	53	42	48	56	59
OPR	65	53	33	42	51	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6198524	33	40	40	86	50	51
6198525	31	43	38	80	50	38
Blank	44	52	43	94	68	64
OPR	41	52	40	87	63	57
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6198524	53	54	53	50	46	43
6198525	42	47	43	40	51	51
Blank	66	71	67	55	59	57
OPR	61	60	62	49	55	54

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231734
Reported: 03/12/11 at 01:17 PM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B Batch number: 11045001	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6198526	71	93	69	83	74	71
6198527	68	87	60	74	71	70
6198528	65	95	73	81	75	74
6198529	72	86	64	75	71	70
6198530	74	84	69	84	77	75
6198531	72	84	53	68	75	78
6198532	79	105	71	88	82	77
Blank	64	75	57	74	68	61
OPR	63	77	67	77	70	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6198526	92	69	71	87	93	82
6198527	78	66	72	86	85	74
6198528	89	78	86	87	90	84
6198529	84	67	67	92	87	76
6198530	89	72	77	98	91	78
6198531	75	71	73	89	88	74
6198532	95	80	88	95	101	88
Blank	80	61	58	82	80	71
OPR	75	66	72	86	78	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6198526	83	83	87	97	70	90
6198527	75	75	79	89	67	84
6198528	82	81	91	97	68	87
6198529	77	78	82	89	69	86
6198530	79	79	87	96	73	96
6198531	76	80	82	89	71	89
6198532	86	88	93	100	79	100
Blank	72	73	76	84	63	86
OPR	69	65	76	85	64	82
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1231734 Sample# 6195524-32

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB28-SA5B-020311	2.03.2011	1130	WATER	HCl	6-40 mL VOA vials									X	X												
EB28-SA5B-020311	2.03.2011	1130	WATER	NONE	4-1L amber jars			X	X	X																	
EB28-SA5B-020311	2.03.2011	1130	WATER	NONE	1-500 mL poly		X				X	X															
EB28-SA5B-020311	2.03.2011	1130	WATER	HNO3	1-500 mL poly	X																					
EB29-SA5B-020311	2.03.2011	1415	WATER	HCl	6-40 mL VOA vials									X	X												
EB29-SA5B-020311	2.03.2011	1415	WATER	NONE	4-1L amber jars			X	X	X																	
EB29-SA5B-020311	2.03.2011	1415	WATER	NONE	1-500 mL poly		X				X	X															
EB29-SA5B-020311	2.03.2011	1415	WATER	HNO3	1-500 mL poly	X																					
SL-205-SA5B-SB-2.5-3.5	2.03.2011	0947	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-205-SA5B-SB-3.0	2.03.2011	0943	SOIL	NONE	4-Encores									X	X												
SL-207-SA5B-SB-2.5-3.5	2.03.2011	0932	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-207-SA5B-SB-3.0	2.03.2011	0930	SOIL	NONE	4-Encores									X	X												
SL-210-SA5B-SB-4.0-5.0	2.03.2011	1034	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-210-SA5B-SB-4.5	2.03.2011	1032	SOIL	NONE	4-Encores									X	X												
SL-211-SA5B-SB-4.0-5.0	2.03.2011	1348	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-211-SA5B-SB-4.5	2.03.2011	1346	SOIL	NONE	4-Encores									X	X												
SL-229-SA5B-SB-2.0-3.0	2.03.2011	1308	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-229-SA5B-SB-2.5	2.03.2011	1305	SOIL	NONE	5-Encores									X	X	X											
SL-230-SA5B-SB-2.0-3.0	2.03.2011	1519	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-230-SA5B-SB-2.5	2.03.2011	1515	SOIL	NONE	5-Encores									X	X	X											
SL-274-SA5B-SB-4.0-5.0	2.03.2011	1437	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-274-SA5B-SB-4.5	2.03.2011	1435	SOIL	NONE	4-Encores									X	X												
TB-020311	2.02.2011		WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/03/2011 / 17:00 — Received for Laboratory by: (Signature) LLI 2/4/11 950

Received by: (Signature) — Date/Time — Airbill No.(s) 8695 1432 0921, ...0932

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/05/2011
Group Number: 1231921
SDG: DE076
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-041-SA5C-SB-4.0-5.0 Soil	6199403
SL-159-SA5B-SB-4.0-5.0 Soil	6199404
SL-159-SA5B-SB-8.0-9.0 Soil	6199405
SL-165-SA5B-SB-4.0-5.0 Soil	6199406
SL-272-SA5B-SB-4.0-5.0 Soil	6199407
SL-273-SA5B-SB-2.0-3.0 Soil	6199408
TB-020411 Water	6199409

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Matthew E. Barton
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.5	0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7	0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.82
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.82
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5	0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7	0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.82
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7	0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7	0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.82
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.82
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7	0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.82
06192	Ethylbenzene	100-41-4	0.25	J	0.06	3.7	0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.82
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7	0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5	0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7	0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5	0.82
06192	Methylene Chloride	75-09-2	0.39	J	0.22	3.7	0.82
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7	0.82

*=This limit was used in the evaluation of the final result

Sample Description: **SL-041-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7	0.82
06192	Toluene	108-88-3	0.07	U	0.07	3.7	0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7	0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7	0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7	0.82
06192	m+p-Xylene	179601-23-1	0.82	J	0.16	3.7	0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.82

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	20.33
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.2	J	0.76	1.9	1
10138	Acenaphthylene	208-96-8	1.2	J	0.38	1.9	1
10138	Anthracene	120-12-7	1.2	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21	1
10138	Chrysene	218-01-9	1.6	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21	1
10138	Fluoranthene	206-44-0	1.6	J	0.76	1.9	1
10138	Fluorene	86-73-7	1.4	J	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	1.0	J	0.76	1.9	1
10138	Naphthalene	91-20-3	1.0	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21	1
10138	Phenanthrene	85-01-8	1.6	J	0.76	1.9	1
10138	Pyrene	129-00-0	1.6	J	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	23		0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,100		5.68	22.6	1
07914	Boron	7440-42-8	1.00	U	1.00	5.64	1
01650	Calcium	7440-70-2	3,750		6.92	22.6	1
01654	Iron	7439-89-6	35,000		26.6	113	5
01656	Lithium	7439-93-2	35.4		0.25	2.3	1
01657	Magnesium	7439-95-4	7,140		2.87	11.3	1
06958	Manganese	7439-96-5	441		0.0881	0.564	1
10145	Phosphorus	7723-14-0	228		0.632	11.3	1
01662	Potassium	7440-09-7	2,390		20.3	56.4	1
01667	Sodium	7440-23-5	141		42.1	113	1
07968	Strontium	7440-24-6	30.7		0.0700	0.564	1
06969	Tin	7440-31-5	3.36	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,580		0.429	1.13	1
10146	Zirconium	7440-67-7	2.34	J	0.948	5.64	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0658	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.29		0.0877	0.439	2
06126	Barium	7440-39-3	124		0.118	0.439	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-041-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.996	0.0175	0.110	2
06128	Cadmium	7440-43-9	0.0867 J	0.0439	0.110	2
06131	Chromium	7440-47-3	30.4	0.132	0.439	2
06132	Cobalt	7440-48-4	9.15	0.0219	0.110	2
06133	Copper	7440-50-8	12.8	0.0724	0.439	2
06135	Lead	7439-92-1	10.1	0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.449	0.0548	0.110	2
06139	Nickel	7440-02-0	16.4	0.110	0.439	2
06141	Selenium	7782-49-2	0.101 J	0.0439	0.439	2
06142	Silver	7440-22-4	0.0463 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.367	0.0329	0.110	2
06148	Vanadium	7440-62-2	56.6	0.0241	0.110	2
06149	Zinc	7440-66-6	66.0	0.614	3.29	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	439	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

Sample Description: **SL-041-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE076-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 18:18	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 15:26	Jason M Long	20.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:46	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 06:10	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/10/2011 14:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 23:49	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/13/2011 22:44	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-041-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE076-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:19	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:19	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/12/2011 22:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 01:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 04:26	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4	0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7	0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4	0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7	0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7	0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7	0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7	0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.81
06192	Ethylbenzene	100-41-4	0.08	J	0.06	3.7	0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4	0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7	0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4	0.81
06192	Methylene Chloride	75-09-2	0.32	J	0.22	3.7	0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7	0.81

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7	0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.7	0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7	0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7	0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7	0.81
06192	m+p-Xylene	179601-23-1	0.30	J	0.16	3.7	0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.81

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14	20.73
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3		0.76	1.9	1
10138	Acenaphthylene	208-96-8	3.1		0.38	1.9	1
10138	Anthracene	120-12-7	4.1		0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	4.8		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	4.3		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	4.7		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	4.7		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	4.8		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	8.7	J	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	8.9	J	6.8	20	1
10138	Chrysene	218-01-9	4.9		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	4.5		0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.8	20	1
10138	Fluoranthene	206-44-0	4.3		0.76	1.9	1
10138	Fluorene	86-73-7	4.0		0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.4		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	2.6		0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	2.3		0.76	1.9	1
10138	Naphthalene	91-20-3	2.2		0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	1.3	J	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	10	J	6.8	20	1
10138	Phenanthrene	85-01-8	4.3		0.76	1.9	1
10138	Pyrene	129-00-0	4.7		0.76	1.9	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.65	22.5	1
07914	Boron	7440-42-8	0.999	U	0.999	5.61	1
01650	Calcium	7440-70-2	2,970		6.88	22.5	1
01654	Iron	7439-89-6	28,300		5.29	22.5	1
01656	Lithium	7439-93-2	36.1		0.25	2.2	1
01657	Magnesium	7439-95-4	5,550		2.85	11.2	1
06958	Manganese	7439-96-5	245		0.0876	0.561	1
10145	Phosphorus	7723-14-0	133		0.629	11.2	1
01662	Potassium	7440-09-7	2,030		20.2	56.1	1
01667	Sodium	7440-23-5	110	J	41.9	112	1
07968	Strontium	7440-24-6	23.5		0.0696	0.561	1
06969	Tin	7440-31-5	2.88	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,540		0.427	1.12	1
10146	Zirconium	7440-67-7	2.52	J	0.943	5.61	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0667	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	10.7	0.0889	0.445	2
06126	Barium	7440-39-3	93.9	0.120	0.445	2
06127	Beryllium	7440-41-7	0.628	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0617 J	0.0445	0.111	2
06131	Chromium	7440-47-3	23.1	0.133	0.445	2
06132	Cobalt	7440-48-4	4.78	0.0222	0.111	2
06133	Copper	7440-50-8	7.69	0.0734	0.445	2
06135	Lead	7439-92-1	5.82	0.0116	0.222	2
06138	Molybdenum	7439-98-7	0.246	0.0556	0.111	2
06139	Nickel	7440-02-0	13.1	0.111	0.445	2
06141	Selenium	7782-49-2	0.0445 U	0.0445	0.445	2
06142	Silver	7440-22-4	0.0965 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.232	0.0333	0.111	2
06148	Vanadium	7440-62-2	39.7	0.0245	0.111	2
06149	Zinc	7440-66-6	45.2	0.622	3.33	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0054 J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	474	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.86	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE076-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-159-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 18:41	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 15:46	Jason M Long	20.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:48	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 07:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 01:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 00:07	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:37	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2

Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE076-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:37	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:37	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/12/2011 23:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 02:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 05:22	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.4	0.96
06192	Benzene	71-43-2	0.12	U	0.12	4.7	0.96
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7	0.96
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.7	0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7	0.96
06192	Bromoform	75-25-2	0.47	U	0.47	4.7	0.96
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7	0.96
06192	2-Butanone	78-93-3	1.4	U	1.4	9.4	0.96
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7	0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7	0.96
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7	0.96
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7	0.96
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7	0.96
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7	0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7	0.96
06192	Chloroform	67-66-3	0.14	U	0.14	4.7	0.96
06192	Chloromethane	74-87-3	0.39	U	0.39	4.7	0.96
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7	0.96
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7	0.96
06192	Chlorotrifluoroethene	79-38-9	0.59	U	0.59	5.9	0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7	0.96
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7	0.96
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7	0.96
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7	0.96
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.7	0.96
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7	0.96
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7	0.96
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7	0.96
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7	0.96
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7	0.96
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.7	0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7	0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7	0.96
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7	0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7	0.96
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7	0.96
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7	0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7	0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7	0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7	0.96
06192	Freon 113	76-13-1	0.13	U	0.13	4.7	0.96
06192	Freon 133a	75-88-7	0.59	U	0.59	5.9	0.96
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7	0.96
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.4	0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7	0.96
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7	0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.7	0.96
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.4	0.96
06192	Methylene Chloride	75-09-2	0.48	J	0.28	4.7	0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7	0.96

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7	0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7	0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7	0.96
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7	0.96
06192	Toluene	108-88-3	0.11	J	0.09	4.7	0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7	0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7	0.96
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7	0.96
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.7	0.96
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7	0.96
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7	0.96
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.7	0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7	0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7	0.96
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7	0.96
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7	0.96
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7	0.96
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene						
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16	22.12
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100	1
04688	Benzoic acid	65-85-0	200	U	200	610	1
04688	Benzyl alcohol	100-51-6	200	U	200	610	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200	1
04688	4-Chloroaniline	106-47-8	81	U	81	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200	1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	810	U	810	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	41	U	41	200	1
04688	4-Methylphenol	106-44-5	41	U	41	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	41	U	41	200	1
04688	4-Nitroaniline	100-01-6	81	U	81	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	610	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	610	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200	1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0	1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0	1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22	1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22	1
10138	Chrysene	218-01-9	0.41	U	0.41	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0	1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22	1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	7.3	22	1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0	1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0	1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22	1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0	1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0	1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1	1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1	1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1	1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1	1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1	1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1	1
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1	1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1	1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		6.14	24.4	1
07914	Boron	7440-42-8	1.09	J	1.09	6.11	1
01650	Calcium	7440-70-2	2,830		7.48	24.4	1
01654	Iron	7439-89-6	17,800		5.75	24.4	1
01656	Lithium	7439-93-2	35.8		0.27	2.4	1
01657	Magnesium	7439-95-4	5,130		3.10	12.2	1
06958	Manganese	7439-96-5	164		0.0952	0.611	1
10145	Phosphorus	7723-14-0	373		0.684	12.2	1
01662	Potassium	7440-09-7	3,130		22.0	61.1	1
01667	Sodium	7440-23-5	123		45.5	122	1
07968	Strontium	7440-24-6	13.1		0.0757	0.611	1
06969	Tin	7440-31-5	3.20	J	1.22	12.2	1
06970	Titanium	7440-32-6	1,330		0.464	1.22	1
10146	Zirconium	7440-67-7	1.90	J	1.03	6.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0733	0.244	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.89		0.0977	0.488	2
06126	Barium	7440-39-3	50.5		0.132	0.488	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.442	0.0195	0.122	2
06128	Cadmium	7440-43-9	0.0488 U	0.0488	0.122	2
06131	Chromium	7440-47-3	19.1	0.147	0.488	2
06132	Cobalt	7440-48-4	2.96	0.0244	0.122	2
06133	Copper	7440-50-8	6.65	0.0806	0.488	2
06135	Lead	7439-92-1	3.11	0.0127	0.244	2
06138	Molybdenum	7439-98-7	0.218	0.0611	0.122	2
06139	Nickel	7440-02-0	10.9	0.122	0.488	2
06141	Selenium	7782-49-2	0.0488 U	0.0488	0.488	2
06142	Silver	7440-22-4	0.241	0.0147	0.122	2
06145	Thallium	7440-28-0	0.239	0.0366	0.122	2
06148	Vanadium	7440-62-2	26.2	0.0269	0.122	2
06149	Zinc	7440-66-6	53.3	0.684	3.66	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0190 J	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.98	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0 U	11.0	36.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	313	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	18.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE076-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-159-SA5B-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 19:04	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 16:06	Jason M Long	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:51	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 07:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 02:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 00:26	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE076-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:40	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:40	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/13/2011 00:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 03:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 05:34	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102B	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402B	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	5.9	U	5.9	7.1	0.79
06192	Benzene	71-43-2	0.09	U	0.09	3.5	0.79
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.5	0.79
06192	Bromochloromethane	74-97-5	0.29	U	0.29	3.5	0.79
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.5	0.79
06192	Bromoform	75-25-2	0.35	U	0.35	3.5	0.79
06192	Bromomethane	74-83-9	0.22	U	0.22	3.5	0.79
06192	2-Butanone	78-93-3	1.1	U	1.1	7.1	0.79
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.5	0.79
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.5	0.79
06192	tert-Butylbenzene	98-06-6	0.14	U	0.14	3.5	0.79
06192	Carbon Tetrachloride	56-23-5	0.12	U	0.12	3.5	0.79
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.5	0.79
06192	Chloroethane	75-00-3	0.12	U	0.12	3.5	0.79
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.5	0.79
06192	Chloroform	67-66-3	0.11	U	0.11	3.5	0.79
06192	Chloromethane	74-87-3	0.29	U	0.29	3.5	0.79
06192	2-Chlorotoluene	95-49-8	0.12	U	0.12	3.5	0.79
06192	4-Chlorotoluene	106-43-4	0.12	U	0.12	3.5	0.79
06192	Chlorotrifluoroethene	79-38-9	0.44	U	0.44	4.4	0.79
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.62	U	0.62	3.5	0.79
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.5	0.79
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.5	0.79
06192	Dibromomethane	74-95-3	0.21	U	0.21	3.5	0.79
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.5	0.79
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.5	0.79
06192	1,4-Dichlorobenzene	106-46-7	0.14	U	0.14	3.5	0.79
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.5	0.79
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.5	0.79
06192	1,2-Dichloroethane	107-06-2	0.13	U	0.13	3.5	0.79
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.5	0.79
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.5	0.79
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.5	0.79
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.5	0.79
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.5	0.79
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.5	0.79
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.5	0.79
06192	cis-1,3-Dichloropropene	10061-01-5	0.14	U	0.14	3.5	0.79
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.5	0.79
06192	Ethylbenzene	100-41-4	0.20	J	0.05	3.5	0.79
06192	Freon 113	76-13-1	0.1	U	0.1	3.5	0.79
06192	Freon 133a	75-88-7	0.44	U	0.44	4.4	0.79
06192	Hexachlorobutadiene	87-68-3	0.12	U	0.12	3.5	0.79
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.1	0.79
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.5	0.79
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.5	0.79
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.5	0.79
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.1	0.79
06192	Methylene Chloride	75-09-2	0.33	J	0.21	3.5	0.79
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.5	0.79

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.5	0.79
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.5	0.79
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.20	U	0.20	3.5	0.79
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.5	0.79
06192	Toluene	108-88-3	0.07	U	0.07	3.5	0.79
06192	1,2,3-Trichlorobenzene	87-61-6	0.12	U	0.12	3.5	0.79
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.5	0.79
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.5	0.79
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.5	0.79
06192	Trichloroethene	79-01-6	0.13	U	0.13	3.5	0.79
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.5	0.79
06192	1,2,3-Trichloropropane	96-18-4	0.29	U	0.29	3.5	0.79
06192	1,2,4-Trimethylbenzene	95-63-6	0.35	U	0.35	3.5	0.79
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.5	0.79
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.5	0.79
06192	m+p-Xylene	179601-23-1	0.69	J	0.15	3.5	0.79
06192	o-Xylene	95-47-6	0.15	U	0.15	3.5	0.79

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene

A surrogate recovery was outside of QC limits for the GC/MS volatile fraction. The analysis was repeated using the remaining sample vial but could not be reported, because the vial leaked during the analysis.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14	20.66
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.6	J	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	1.2	J	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,100		5.47	21.7	1
07914	Boron	7440-42-8	2.12	J	0.968	5.44	1
01650	Calcium	7440-70-2	2,600		6.66	21.7	1
01654	Iron	7439-89-6	20,600		5.12	21.7	1
01656	Lithium	7439-93-2	22.8		0.24	2.2	1
01657	Magnesium	7439-95-4	3,850		2.76	10.9	1
06958	Manganese	7439-96-5	208		0.0848	0.544	1
10145	Phosphorus	7723-14-0	355		0.609	10.9	1
01662	Potassium	7440-09-7	3,480		19.6	54.4	1
01667	Sodium	7440-23-5	90.7	J	40.6	109	1
07968	Strontium	7440-24-6	24.5		0.0674	0.544	1
06969	Tin	7440-31-5	2.76	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,250		0.413	1.09	1
10146	Zirconium	7440-67-7	1.50	J	0.913	5.44	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.52		0.0870	0.435	2
06126	Barium	7440-39-3	103		0.117	0.435	2
06127	Beryllium	7440-41-7	0.622		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.230		0.0435	0.109	2
06131	Chromium	7440-47-3	20.3		0.130	0.435	2
06132	Cobalt	7440-48-4	6.66		0.0217	0.109	2
06133	Copper	7440-50-8	11.0		0.0718	0.435	2
06135	Lead	7439-92-1	7.29		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.795		0.0544	0.109	2
06139	Nickel	7440-02-0	13.3		0.109	0.435	2
06141	Selenium	7782-49-2	0.136	J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0937	J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.286		0.0326	0.109	2
06148	Vanadium	7440-62-2	37.0		0.0239	0.109	2
06149	Zinc	7440-66-6	55.1		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	349		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.90		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.7		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-165-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE076-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-165-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 19:26	Chelsea B Eastep	0.79
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 16:26	Jason M Long	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:54	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 08:23	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 02:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110390023A	02/09/2011 18:29	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 00:44	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110390023A	02/09/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-165-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE076-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:50	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:50	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:50	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/13/2011 00:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 03:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 05:59	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102B	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402B	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3	0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.6	0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6	0.82
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6	0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6	0.82
06192	Bromoform	75-25-2	0.36	U	0.36	3.6	0.82
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6	0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3	0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6	0.82
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6	0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.6	0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6	0.82
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6	0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6	0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6	0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.6	0.82
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6	0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6	0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6	0.82
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.6	0.82
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6	0.82
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6	0.82
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6	0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6	0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6	0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.6	0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6	0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6	0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6	0.82
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.6	0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6	0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6	0.82
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6	0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6	0.82
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6	0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6	0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.6	0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6	0.82
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6	0.82
06192	Freon 113	76-13-1	0.1	U	0.1	3.6	0.82
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6	0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3	0.82
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6	0.82
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6	0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6	0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3	0.82
06192	Methylene Chloride	75-09-2	0.41	J	0.22	3.6	0.82
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6	0.82

*=This limit was used in the evaluation of the final result

Sample Description: **SL-272-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6	0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6	0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6	0.82
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6	0.82
06192	Toluene	108-88-3	0.08	J	0.07	3.6	0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6	0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6	0.82
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6	0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.6	0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6	0.82
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6	0.82
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6	0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6	0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6	0.82
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6	0.82
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6	0.82
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6	0.82

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.4	U	4.4	13	19.97
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.43	21.6	1
07914	Boron	7440-42-8	0.960	U	0.960	5.39	1
01650	Calcium	7440-70-2	2,330		6.61	21.6	1
01654	Iron	7439-89-6	22,200		5.08	21.6	1
01656	Lithium	7439-93-2	21.6		0.24	2.2	1
01657	Magnesium	7439-95-4	4,430		2.74	10.8	1
06958	Manganese	7439-96-5	258		0.0841	0.539	1
10145	Phosphorus	7723-14-0	152		0.604	10.8	1
01662	Potassium	7440-09-7	1,860		19.4	53.9	1
01667	Sodium	7440-23-5	94.2	J	40.2	108	1
07968	Strontium	7440-24-6	20.7		0.0669	0.539	1
06969	Tin	7440-31-5	2.94	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,280		0.410	1.08	1
10146	Zirconium	7440-67-7	2.46	J	0.906	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0660	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.86		0.0880	0.440	2
06126	Barium	7440-39-3	97.3		0.119	0.440	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-272-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.728	0.0176	0.110	2
06128	Cadmium	7440-43-9	0.0608 J	0.0440	0.110	2
06131	Chromium	7440-47-3	20.9	0.132	0.440	2
06132	Cobalt	7440-48-4	5.81	0.0220	0.110	2
06133	Copper	7440-50-8	8.54	0.0726	0.440	2
06135	Lead	7439-92-1	6.12	0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.452	0.0550	0.110	2
06139	Nickel	7440-02-0	11.7	0.110	0.440	2
06141	Selenium	7782-49-2	0.0641 J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0290 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.228	0.0330	0.110	2
06148	Vanadium	7440-62-2	41.4	0.0242	0.110	2
06149	Zinc	7440-66-6	47.0	0.616	3.30	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036 J	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	328	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.85	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

Sample Description: **SL-272-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE076-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-272-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 19:49	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 16:46	Jason M Long	19.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:57	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:57	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 08:50	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 03:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 01:03	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:53	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2

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Analysis Report

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE076-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:53	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:53	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/13/2011 00:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 04:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 06:12	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102B	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402B	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8	0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8	0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.8	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9	0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9	0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9	0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9	0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9	0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.8	0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8	0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9	0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8	0.85
06192	Methylene Chloride	75-09-2	0.41	J	0.23	3.9	0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.85

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9	0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9	0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9	0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9	0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9	0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9	0.85

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene

The GC/MS volatile internal standard peak areas were outside the QC limits. A re-analysis was performed, and the matrix effect was confirmed.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	22.28
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.48	J	0.38	1.9	1
10138	Anthracene	120-12-7	1.3	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	2.5		0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	3.2		0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	8.4		0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	6.6		0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	3.9		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	5.2		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.8	20	1
10138	Fluoranthene	206-44-0	4.3		0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.4		0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.83	J	0.76	1.9	1
10138	Naphthalene	91-20-3	0.94	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	2.3		0.76	1.9	1
10138	Pyrene	129-00-0	5.7		0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19	5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19	5
10225	Aroclor 5460	11126-42-4	39		5.7	19	5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7	5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.7	5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.7	5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.7	5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7	5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.7	5
10225	PCB-1260	11096-82-5	58		2.2	9.7	5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7	5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7	5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.55	22.1	1
07914	Boron	7440-42-8	0.982	U	0.982	5.52	1
01650	Calcium	7440-70-2	6,770		6.76	22.1	1
01654	Iron	7439-89-6	30,900		26.0	110	5
01656	Lithium	7439-93-2	43.3		0.24	2.2	1
01657	Magnesium	7439-95-4	6,090		2.80	11.0	1
06958	Manganese	7439-96-5	335		0.0861	0.552	1
10145	Phosphorus	7723-14-0	524		0.618	11.0	1
01662	Potassium	7440-09-7	3,010		19.9	55.2	1
01667	Sodium	7440-23-5	99.3	J	41.2	110	1
07968	Strontium	7440-24-6	41.3		0.0684	0.552	1
06969	Tin	7440-31-5	3.62	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,380		0.419	1.10	1
10146	Zirconium	7440-67-7	2.58	J	0.927	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0668	U	0.0668	0.223	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.15		0.0891	0.446	2
06126	Barium	7440-39-3	91.5		0.120	0.446	2
06127	Beryllium	7440-41-7	0.683		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.876		0.0446	0.111	2
06131	Chromium	7440-47-3	29.4		0.134	0.446	2
06132	Cobalt	7440-48-4	6.26		0.0223	0.111	2
06133	Copper	7440-50-8	21.2		0.0735	0.446	2
06135	Lead	7439-92-1	16.5		0.0116	0.223	2
06138	Molybdenum	7439-98-7	1.08		0.0557	0.111	2
06139	Nickel	7440-02-0	17.5		0.111	0.446	2
06141	Selenium	7782-49-2	0.216	J	0.0446	0.446	2
06142	Silver	7440-22-4	21.5		0.0134	0.111	2
06145	Thallium	7440-28-0	0.267		0.0334	0.111	2
06148	Vanadium	7440-62-2	37.5		0.0245	0.111	2
06149	Zinc	7440-66-6	95.4		0.624	3.34	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0737	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.0		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.0		0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	359		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.06		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: **SL-273-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7606 SDG#: DE076-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-273-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 20:11	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 17:05	Jason M Long	22.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:59	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 13:00	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 09:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 03:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 02:35	Andrea J Covey	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/13/2011 23:01	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:56	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2

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Analysis Report

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7606 SDG#: DE076-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:56	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:56	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/13/2011 00:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 04:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 06:24	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102B	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402B	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-020411 Water
SSFL Area IV Collocated Soil Sampling
TB-020411

LLI Sample # WW 6199409
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7607 SDG#: DE076-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-020411 Water**
SSFL Area IV Collocated Soil Sampling
TB-020411

LLI Sample # WW 6199409
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011

Submitted: 02/05/2011 11:00
Reported: 02/25/2011 14:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7607 SDG#: DE076-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110382AA	02/07/2011 17:05	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110391AA	02/08/2011 11:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110382AA	02/07/2011 17:05	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110391AA	02/08/2011 11:03	Jason M Long	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110381AA	Sample number(s): 6199403-6199408									
Acetone	6.7	U	6.7	8.0	ug/kg	92	93	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	100	100	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	100	94	79-120	6	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	96	98	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	88	88	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	86	84	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	90	94	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	88	103	72-120	16	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	98	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	93	89	75-120	4	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	97	94	69-122	3	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97	96	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	84	80	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	77	81	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	97	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	90	90	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107	100	78-120	7	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	109	103	79-120	5	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	65	60	22-131	8	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93	89	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	96	96	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	94	96	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	98	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	88	102	79-120	15	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92	97	78-120	6	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	86	93	79-120	8	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71	70	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	99	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	95	97	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	93	92	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	96	95	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98	95	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98	99	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	95	98	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99	99	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	91	92	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	79*	82	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	84	86	77-120	3	30
Ethylbenzene	0.08	J	0.06	4.0	ug/kg	91	90	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	94	91	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	85	80	78-120	6	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	95	87	57-120	9	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	64	66	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	85	84	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	86	85	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	88	88	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	66	67	61-134	2	30
Methylene Chloride	0.40	J	0.24	4.0	ug/kg	88	90	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	116	108	77-120	7	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	93	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	98	96	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	113	108	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	96	93	77-120	3	30
Toluene	0.31	J	0.08	4.0	ug/kg	98	97	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	91	86	64-120	5	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	81	75	68-120	7	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	102	80-120	4	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	92	93	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	86	84	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	108	106	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	103	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	101	78-120	6	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	87	87	53-120	0	30
m+p-Xylene	0.20	J	0.17	4.0	ug/kg	97	96	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	84	84	80-120	0	30
Batch number: E110381AA	Sample number(s): 6199403-6199408									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	107	103	70-130	4	30
Batch number: E110391AA	Sample number(s): 6199409									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	107	102	60-132	5	30
Batch number: Y110382AA	Sample number(s): 6199409									
Acetone	6	U	6.	20	ug/l	87	83	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	105	103	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	104	103	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	105	104	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	103	103	80-120	0	30
Bromoform	1	U	1.	5	ug/l	98	94	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	88	87	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	100	98	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	104	103	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	109	106	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	99	98	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	90	88	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	111	108	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	106	104	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	99	97	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	107	106	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	104	104	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	68	70	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	107	108	66-120	1	30
Dibromochloromethane	1	U	1.	5	ug/l	99	97	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	104	102	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	102	100	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	82	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	105	104	79-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	107	107	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	92	93	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	102	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	101	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	103	104	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	107	105	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	99	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	104	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	98	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	103	101	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	105	103	79-120	1	30
Freon 113	2	U	2.	10	ug/l	90	89	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	80	80	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	90	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	105	103	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	102	101	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	107	105	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	106	104	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	103	102	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	99	96	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	111	110	80-120	1	30
Styrene	1	U	1.	5	ug/l	103	101	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	110	108	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	94	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	105	104	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	101	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	100	100	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	89	89	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	102	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	102	100	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	86	85	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	111	106	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	108	108	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	108	107	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	86	85	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	102	100	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
Batch number: 11039SLA026	Sample number(s): 6199403-6199408									
Aniline	170 U		170.	500	ug/kg	62		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	87		79-117		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	101		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	88		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	75		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	89		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	76		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	108		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	104		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	86		51-117		
Phenol	17	U	17.	170	ug/kg	113*		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11039SLB026	Sample number(s): 6199403-6199408									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	109		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	109		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	107		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	106		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	96		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	123		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	80		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	104		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 110390023A	Sample number(s): 6199406									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110480028A	Sample number(s): 6199403-6199408									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	82	75	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	73		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	90		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110381026001A	Sample number(s): 6199403-6199408									
Antimony	0.0600	U	0.0600	0.200	mg/kg	102		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	97		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	100		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	108		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	111		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	109		78-122		
Batch number: 110381026001B	Sample number(s): 6199403-6199408									
Selenium	0.0400	U	0.0400	0.400	mg/kg	109		79-122		
Batch number: 110381026001C	Sample number(s): 6199403-6199408									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110381026001D	Sample number(s): 6199403-6199408									
Barium	0.108	U	0.108	0.400	mg/kg	108		79-121		
Batch number: 110385708001	Sample number(s): 6199403-6199408									
Aluminum	5.03	U	5.03	20.0	mg/kg	103		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	99		78-110		
Calcium	7.54	J	6.13	20.0	mg/kg	96		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	109		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	0.685	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	109		79-121		
Tin	1.32	J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	104		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	98		80-120		
Batch number: 110385711001	Sample number(s): 6199403-6199408									
Mercury	0.0028	U	0.0028	0.0984	mg/kg	89		88-123		
Batch number: 11040040203B	Sample number(s): 6199403-6199408									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11043243201A	Sample number(s): 6199403-6199408									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11048048202A	Sample number(s): 6199403-6199408									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11039039402A	Sample number(s): 6199403-6199404									
22a pH by 9045C						100		95-105		
Batch number: 11039039402B	Sample number(s): 6199405-6199408									
22a pH by 9045C						100		95-105		
Batch number: 11039182102A	Sample number(s): 6199403-6199404									
32a OR Potential						99		98-102		
Batch number: 11039182102B	Sample number(s): 6199405-6199408									
32a OR Potential						99		98-102		
Batch number: 11047162401A	Sample number(s): 6199403-6199408									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11039SLA026	Sample number(s): 6199403-6199408 UNSPK: 6199403								
Aniline	77	79	35-95	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	72	67	10-173	6	30				
Benzyl alcohol	133*	119*	67-115	11	30				
4-Bromophenyl-phenylether	95	82	67-129	15	30				
Carbazole	108	98	64-120	10	30				
4-Chloro-3-methylphenol	124*	113*	76-110	9	30				
4-Chloroaniline	63	72	23-95	13	30				
bis(2-Chloroethoxy)methane	98	95	75-104	3	30				
bis(2-Chloroethyl)ether	106	98	60-116	8	30				
bis(2-Chloroisopropyl)ether	111	101	55-142	10	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloronaphthalene	89	71	50-141	22	30				
2-Chlorophenol	121	114	73-121	6	30				
4-Chlorophenyl-phenylether	98	88	80-109	11	30				
Dibenzofuran	104	95	71-112	8	30				
1,2-Dichlorobenzene	94	90	66-108	4	30				
1,3-Dichlorobenzene	88	83	63-109	6	30				
1,4-Dichlorobenzene	89	84	70-100	5	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	110	105	78-117	5	30				
2,4-Dimethylphenol	109	101	78-110	7	30				
3,5-Dimethylphenol	126	116	70-130	8	30				
4,6-Dinitro-2-methylphenol	53	52	24-116	3	30				
2,4-Dinitrophenol	34	34	20-143	1	30				
2,4-Dinitrotoluene	113	104	73-113	8	30				
2,6-Dinitrotoluene	110	101	69-123	8	30				
1,2-Diphenylhydrazine	113	98	71-129	14	30				
Hexachlorobenzene	95	82	77-114	15	30				
Hexachlorobutadiene	80	75	62-120	7	30				
Hexachlorocyclopentadiene	56	50	10-153	12	30				
Hexachloroethane	90	78	57-109	14	30				
Isophorone	106*	98	73-102	8	30				
2-Methylphenol	136*	121*	75-111	12	30				
4-Methylphenol	137*	117*	71-111	16	30				
2-Nitroaniline	115	105	67-125	9	30				
3-Nitroaniline	107	101	59-122	6	30				
4-Nitroaniline	91	90	52-112	2	30				
Nitrobenzene	103	99	72-106	3	30				
2-Nitrophenol	102	96	74-115	6	30				
4-Nitrophenol	103	99	54-113	5	30				
N-Nitroso-di-n-propylamine	126*	113	60-116	11	30				
N-Nitrosodiphenylamine	102	88	86-145	14	30				
Pentachlorophenol	69	67	28-127	3	30				
Phenol	135*	129*	58-126	4	30				
1,2,4-Trichlorobenzene	88	81	72-115	9	30				
2,4,5-Trichlorophenol	106	98	78-109	8	30				
2,4,6-Trichlorophenol	97	91	77-115	6	30				
Batch number: 11039SLB026	Sample number(s): 6199403-6199408 UNSPK: 6199403								
Acenaphthene	89	90	63-105	1	30				
Acenaphthylene	90	90	67-114	1	30				
Anthracene	92	90	60-122	1	30				
Benzo(a)anthracene	106	105	59-128	1	30				
Benzo(a)pyrene	94	92	45-138	2	30				
Benzo(b)fluoranthene	101	98	43-155	3	30				
Benzo(g,h,i)perylene	101	98	33-141	3	30				
Benzo(k)fluoranthene	100	95	42-144	5	30				
Butylbenzylphthalate	116	113	57-173	2	30				
Di-n-butylphthalate	103	103	65-148	1	30				
Chrysene	104	101	48-134	3	30				
Dibenz(a,h)anthracene	96	93	22-133	3	30				
Diethylphthalate	98	99	70-136	1	30				
Dimethylphthalate	105	104	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	128	130	39-167	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	98	96	26-166	2	30				
Fluorene	97	96	66-122	1	30				
Indeno(1,2,3-cd)pyrene	96	93	21-143	3	30				
1-Methylnaphthalene	88	91	72-123	4	30				
2-Methylnaphthalene	88	90	64-103	3	30				
Naphthalene	86	87	61-102	1	30				
N-Nitrosodimethylamine	89	89	48-113	1	30				
Di-n-octylphthalate	107	103	40-192	4	30				
Phenanthrene	92	90	12-165	2	30				
Pyrene	101	99	15-153	2	30				
Batch number: 110390023A	Sample number(s): 6199406 UNSPK: P196805								
6a Perchlorate EPA 6850	104	103	80-120	1	20				
Batch number: 110480028A	Sample number(s): 6199403-6199408 UNSPK: P198513								
PCB-1016	70	82	29-146	16	50				
PCB-1260	83	103	39-149	22	50				
Batch number: 110381026001A	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
Antimony	51*	35*	75-125	28*	20	0.152 J	0.0910 J	50* (1)	20
Arsenic	13 (2)	115 (2)	75-125	22*	20	8.14	7.54	8	20
Beryllium	73*	96	75-125	12	20	0.873	0.841	4	20
Cadmium	98	96	75-125	3	20	0.0760 J	0.0632 J	18 (1)	20
Chromium	73*	124	75-125	14	20	26.7	24.2	10	20
Cobalt	93	97	75-125	3	20	8.03	10.5	27*	20
Copper	72*	106	75-125	17	20	11.2	9.42	17	20
Lead	6*	121	75-125	32*	20	8.88	10.0	12	20
Nickel	75	106	75-125	13	20	14.3	12.6	13	20
Silver	106	101	75-125	5	20	0.0406 J	0.0377 J	7 (1)	20
Thallium	73*	93	75-125	12	20	0.322	0.290	10 (1)	20
Vanadium	29 (2)	155 (2)	75-125	21*	20	49.6	44.6	11	20
Zinc	-7 (2)	75 (2)	75-125	13	20	57.9	50.3	14	20
Batch number: 110381026001B	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
Selenium	85	88	75-125	4	20	0.0884 J	0.0932 J	5 (1)	20
Batch number: 110381026001C	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
Molybdenum	97	91	75-125	6	20	0.394	0.400	2 (1)	20
Batch number: 110381026001D	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
Barium	-1 (2)	193 (2)	75-125	16	20	109	102	6	20
Batch number: 110385708001	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
Aluminum	-1059 (2)	-271 (2)	75-125	6	20	27,300	22,200	21*	20
Boron	101	102	84-115	2	20	0.881 U	0.881 U	0 (1)	20
Calcium	-29 (2)	-8 (2)	75-125	3	20	3,290	2,780	17	20
Iron	-6092 (2)	-6324 (2)	75-125	1	20	30,700	26,100	16	20
Lithium	94	95	82-114	2	20	31.0	24.9	22*	20
Magnesium	-482 (2)	-500 (2)	75-125	1	20	6,260	4,950	23*	20
Manganese	-110	-19 (2)	75-125	12	20	386	327	17	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC (2)	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phosphorus	87	59*	75-125	10	20	200	170	16	20
Potassium	119	111	75-125	2	20	2,100	1,790	16	20
Sodium	96	97	75-125	2	20	123	105	16 (1)	20
Strontium	96	98	75-115	2	20	26.9	22.5	18	20
Tin	87	86	80-110	0	20	2.95 J	2.74 J	7 (1)	20
Titanium	131 (2)	125 (2)	75-125	0	20	1,390	1,300	7	20
Zirconium	93	93	75-125	1	20	2.05 J	2.53 J	21* (1)	20
Batch number: 110385711001	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
Mercury	102	100	65-135	0	20	0.0027 U	0.0086 J	200* (1)	20
Batch number: 11040040203B	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
11a Anions by 300.0 - Fluoride	54*		80-120			1.4	1.1	22* (1)	20
Batch number: 11043243201A	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
3a Cr VI by EPA 7199	92		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11048048202A	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11039039402A	Sample number(s): 6199403-6199404 BKG: P198512								
22a pH by 9045C						6.84	6.85	0	1
Batch number: 11039039402B	Sample number(s): 6199405-6199408 BKG: 6199405								
22a pH by 9045C						7.74	7.73	0	1
Batch number: 11039182102A	Sample number(s): 6199403-6199404 BKG: P198512								
32a OR Potential						445	444	0	6
Batch number: 11039182102B	Sample number(s): 6199405-6199408 BKG: 6199405								
32a OR Potential						313	314	0	6
Batch number: 11047162401A	Sample number(s): 6199403-6199408 BKG: 6199404								
28a Moisture Content by 160.3						11.8	11.8	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6199403	115	111	98	86
6199404	117	115	98	85
6199405	115	108	101	77
6199406	116	112	98	66*
6199407	116	113	99	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Surrogate Quality Control

6199408	115	110	101	77
Blank	110	106	99	86
LCS	99	102	107	107
LCSD	99	102	106	106
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110381AA

	Toluene-d8
6199403	94
6199404	95
6199405	95
6199406	95
6199407	95
6199408	95
Blank	95
LCS	96
LCSD	95
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110391AA

	Toluene-d8
6199409	96
Blank	96
LCS	96
LCSD	96
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110382AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6199409	100	101	102	99
Blank	99	100	103	100
LCS	100	102	103	101
LCSD	99	101	102	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11039SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6199403	115	111	94	95	90	110
6199404	115	109	115	96	90	108
6199405	106	101	107	89	83	106
6199406	119	113	111	94	86	107
6199407	111	108	104	92	85	105
6199408	108	102	101	88	85	113
Blank	93	96	98	89	89	98
LCS	105	105	103	97	95	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231921
Reported: 02/25/11 at 02:47 PM

Surrogate Quality Control

MS	125*	115	113	98	89	102
MSD	119	110	109	94	84	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11039SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6199403	109	113	126
6199404	107	111	143*
6199405	92	86	115
6199406	100	91	112
6199407	91	86	109
6199408	100	89	106
Blank	96	92	107
LCS	94	91	101
MS	99	91	101
MSD	100	92	102
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110480028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6199403	82	98
6199404	88	94
6199405	78	97
6199406	80	92
6199407	86	82
6199408	67	94
Blank	87	110
LCS	92	121*
LCSD	81	106
MS	73	89
MSD	88	123*
Limits:	53-139	45-120

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CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5C-SB-4.0-5.0	2.04.2011	0923	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															Amended COC NM 2/7/11
SL-041-SA5C-SB-4.5	2.04.2011	0918	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-4.0-5.0	2.04.2011	1135	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-4.5	2.04.2011	1133	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-8.0-9.0	2.04.2011	1150	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-8.5	2.04.2011	1146	SOIL	NONE	4-Encores									X	X												
SL-165-SA5B-SB-4.0-5.0	2.04.2011	1004	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-165-SA5B-SB-4.5	2.04.2011	1002	SOIL	NONE	4-Encores									X	X												
SL-272-SA5B-SB-4.0-5.0	2.04.2011	1510	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-272-SA5B-SB-4.5	2.04.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-273-SA5B-SB-2.0-3.0	2.04.2011	1357	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-273-SA5B-SB-2.5	2.04.2011	1355	SOIL	NONE	4-Encores									X	X												
TB-020411	2.04.2011		WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (*Signature*)	**Date/Time** 02/04/2011 / 17:00	**Received for Laboratory by: (*Signature*)**	**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8695 1432 1229	**No. of coolers = 1**

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]

Sent: Monday, February 07, 2011 3:30 PM

To: Bloisa, Peggy; Burgesser, Todd; Laura Rainey; Nicole Maljovec; SA Env Entry; Samaritoni, Shelley; Zakowski, Cherie

Subject: Revised COC for 2/4/11

Attachments: COC_subsurface_samples_02_04_11REVISED.xls

The sample location issue has been resolved. My apologies for any inconvenience.

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
Please consider the environment before printing this e-mail.

acct#13013 Cp#1231921 Sample# 6199403 09

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Chad Man

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260/SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5B-SB-4.0-5.0	2.04.2011	0923	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-041-SA5B-SB-4.5	2.04.2011	0918	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-4.0-5.0	2.04.2011	1135	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-4.5	2.04.2011	1133	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-8.0-9.0	2.04.2011	1150	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-8.5	2.04.2011	1146	SOIL	NONE	4-Encores									X	X												
SL-165-SA5B-SB-4.0-5.0	2.04.2011	1004	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-165-SA5B-SB-4.5	2.04.2011	1002	SOIL	NONE	4-Encores									X	X												
SL-272-SA5B-SB-4.0-5.0	2.04.2011	1510	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-272-SA5B-SB-4.5	2.04.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-273-SA5B-SB-2.0-3.0	2.04.2011	1357	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-273-SA5B-SB-2.5	2.04.2011	1355	SOIL	NONE	4-Encores									X	X												
TB-02041	2.04.2011		WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 02/04/2011 / 17:00	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 2/4/11 1700	Airbill No.(s) 8695 1432 1229	No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/05/2011
Group Number: 1231922
SDG: DX047
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-041-SA5C-SB-4.0-5.0 Soil	6199410
SL-159-SA5B-SB-4.0-5.0 Soil	6199411
SL-159-SA5B-SB-8.0-9.0 Soil	6199412
SL-165-SA5B-SB-4.0-5.0 Soil	6199413
SL-272-SA5B-SB-4.0-5.0 Soil	6199414
SL-273-SA5B-SB-2.0-3.0 Soil	6199415

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199410
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4714 SDG#: DX047-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-041-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199410
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4714 SDG#: DX047-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0495	JQ	0.0312	1.14	1
11031	12378-PeCDD	40321-76-4	0.933	JBQ	0.0938	5.70	1
11031	123478-HxCDD	39227-28-6	0.706	J	0.0446	5.70	1
11031	123678-HxCDD	57653-85-7	2.26	J	0.0464	5.70	1
11031	123789-HxCDD	19408-74-3	1.53	J	0.0449	5.70	1
11031	1234678-HpCDD	35822-46-9	6.21	B	0.0327	5.70	1
11031	OCDD	3268-87-9	4.94	JB	0.0269	11.4	1
11031	2378-TCDF	51207-31-9	0.0319	U	0.0319	1.14	1
11031	12378-PeCDF	57117-41-6	0.0784	JB	0.0210	5.70	1
11031	23478-PeCDF	57117-31-4	0.929	JB	0.0201	5.70	1
11031	123478-HxCDF	70648-26-9	4.07	JB	0.0375	5.70	1
11031	123678-HxCDF	57117-44-9	1.00	JB	0.0317	5.70	1
11031	123789-HxCDF	72918-21-9	1.91	JB	0.0357	5.70	1
11031	234678-HxCDF	60851-34-5	0.725	JB	0.0363	5.70	1
11031	1234678-HpCDF	67562-39-4	1.59	JB	0.0174	5.70	1
11031	1234789-HpCDF	55673-89-7	0.819	J	0.0259	5.70	1
11031	OCDF	39001-02-0	0.497	JB	0.0302	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-041-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199410
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4714 SDG#: DX047-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5C-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199410
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4714 SDG#: DX047-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 05:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199411
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4715 SDG#: DX047-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199411
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4715 SDG#: DX047-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0288 U	0.0288	1.13	1
11031	12378-PeCDD	40321-76-4	0.0915 JBQ	0.0310	5.67	1
11031	123478-HxCDD	39227-28-6	0.327 JQ	0.0478	5.67	1
11031	123678-HxCDD	57653-85-7	1.10 J	0.0500	5.67	1
11031	123789-HxCDD	19408-74-3	0.674 J	0.0497	5.67	1
11031	1234678-HpCDD	35822-46-9	33.7 B	0.0736	5.67	1
11031	OCDD	3268-87-9	795 B	0.0616	11.3	1
11031	2378-TCDF	51207-31-9	0.0271 U	0.0271	1.13	1
11031	12378-PeCDF	57117-41-6	0.0321 JBQ	0.0113	5.67	1
11031	23478-PeCDF	57117-31-4	0.0648 JBQ	0.0105	5.67	1
11031	123478-HxCDF	70648-26-9	0.0916 JBQ	0.0227	5.67	1
11031	123678-HxCDF	57117-44-9	0.0398 JB	0.0177	5.67	1
11031	123789-HxCDF	72918-21-9	0.0227 U	0.0227	5.67	1
11031	234678-HxCDF	60851-34-5	0.0658 JB	0.0195	5.67	1
11031	1234678-HpCDF	67562-39-4	1.45 JB	0.0158	5.67	1
11031	1234789-HpCDF	55673-89-7	0.119 J	0.0219	5.67	1
11031	OCDF	39001-02-0	5.01 JB	0.0305	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199411
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4715 SDG#: DX047-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199411
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4715 SDG#: DX047-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 06:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199412
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4716 SDG#: DX047-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	18.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199412
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4716 SDG#: DX047-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	U	0.0344	1.22	1
11031	12378-PeCDD	40321-76-4	0.0283	U	0.0283	6.11	1
11031	123478-HxCDD	39227-28-6	0.0234	U	0.0234	6.11	1
11031	123678-HxCDD	57653-85-7	0.0252	U	0.0252	6.11	1
11031	123789-HxCDD	19408-74-3	0.0249	U	0.0249	6.11	1
11031	1234678-HpCDD	35822-46-9	0.253	JB	0.0311	6.11	1
11031	OCDD	3268-87-9	0.927	JB	0.0283	12.2	1
11031	2378-TCDF	51207-31-9	0.0286	U	0.0286	1.22	1
11031	12378-PeCDF	57117-41-6	0.0392	JBQ	0.0122	6.11	1
11031	23478-PeCDF	57117-31-4	0.0523	JBQ	0.0112	6.11	1
11031	123478-HxCDF	70648-26-9	0.0249	JBQ	0.0138	6.11	1
11031	123678-HxCDF	57117-44-9	0.0127	JBQ	0.0107	6.11	1
11031	123789-HxCDF	72918-21-9	0.0284	JBQ	0.0140	6.11	1
11031	234678-HxCDF	60851-34-5	0.0117	U	0.0117	6.11	1
11031	1234678-HpCDF	67562-39-4	0.0251	JB	0.00855	6.11	1
11031	1234789-HpCDF	55673-89-7	0.0225	JQ	0.0137	6.11	1
11031	OCDF	39001-02-0	0.120	JBQ	0.0370	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199412
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4716 SDG#: DX047-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199412
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4716 SDG#: DX047-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 07:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-165-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199413
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4717 SDG#: DX047-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-165-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199413
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4717 SDG#: DX047-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0317 U	0.0317	1.12	1
11031	12378-PeCDD	40321-76-4	0.0702 JBQ	0.0326	5.60	1
11031	123478-HxCDD	39227-28-6	0.0783 J	0.0429	5.60	1
11031	123678-HxCDD	57653-85-7	0.392 J	0.0462	5.60	1
11031	123789-HxCDD	19408-74-3	0.418 J	0.0427	5.60	1
11031	1234678-HpCDD	35822-46-9	5.77 B	0.0487	5.60	1
11031	OCDD	3268-87-9	100 B	0.0337	11.2	1
11031	2378-TCDF	51207-31-9	0.0553 U	0.0553	1.12	1
11031	12378-PeCDF	57117-41-6	0.0820 JBQ	0.0232	5.60	1
11031	23478-PeCDF	57117-31-4	0.0933 JBQ	0.0205	5.60	1
11031	123478-HxCDF	70648-26-9	0.250 JB	0.0269	5.60	1
11031	123678-HxCDF	57117-44-9	0.0615 JBQ	0.0219	5.60	1
11031	123789-HxCDF	72918-21-9	0.265 JB	0.0268	5.60	1
11031	234678-HxCDF	60851-34-5	0.0624 JBQ	0.0225	5.60	1
11031	1234678-HpCDF	67562-39-4	0.473 JB	0.0177	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0693 J	0.0243	5.60	1
11031	OCDF	39001-02-0	1.27 JB	0.0346	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-165-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199413
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4717 SDG#: DX047-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-165-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199413
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4717 SDG#: DX047-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 08:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-272-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199414
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4718 SDG#: DX047-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-272-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199414
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4718 SDG#: DX047-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0294	U	0.0294	1.11	1
11031	12378-PeCDD	40321-76-4	0.0234	U	0.0234	5.56	1
11031	123478-HxCDD	39227-28-6	0.0219	U	0.0219	5.56	1
11031	123678-HxCDD	57653-85-7	0.0513	JQ	0.0224	5.56	1
11031	123789-HxCDD	19408-74-3	0.0654	JQ	0.0211	5.56	1
11031	1234678-HpCDD	35822-46-9	1.30	JB	0.0361	5.56	1
11031	OCDD	3268-87-9	28.9	B	0.0318	11.1	1
11031	2378-TCDF	51207-31-9	0.0294	U	0.0294	1.11	1
11031	12378-PeCDF	57117-41-6	0.0249	JBQ	0.0123	5.56	1
11031	23478-PeCDF	57117-31-4	0.0450	JBQ	0.0114	5.56	1
11031	123478-HxCDF	70648-26-9	0.0170	JBQ	0.0133	5.56	1
11031	123678-HxCDF	57117-44-9	0.0157	JBQ	0.00989	5.56	1
11031	123789-HxCDF	72918-21-9	0.0384	JBQ	0.0133	5.56	1
11031	234678-HxCDF	60851-34-5	0.0151	JBQ	0.0103	5.56	1
11031	1234678-HpCDF	67562-39-4	0.0929	JB	0.0139	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0280	JQ	0.0221	5.56	1
11031	OCDF	39001-02-0	0.303	JBQ	0.0432	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	102	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-272-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199414
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4718 SDG#: DX047-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-272-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199414
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4718 SDG#: DX047-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 09:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-273-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199415
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4719 SDG#: DX047-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199415
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4719 SDG#: DX047-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.97	0.122	1.14	1
11031	12378-PeCDD	40321-76-4	4.57 JB	0.223	5.68	1
11031	123478-HxCDD	39227-28-6	12.6	0.223	5.68	1
11031	123678-HxCDD	57653-85-7	52.4	0.240	5.68	1
11031	123789-HxCDD	19408-74-3	22.9	0.223	5.68	1
11031	1234678-HpCDD	35822-46-9	1,440 B	0.314	5.68	1
11031	OCDD	3268-87-9	15,000 EB	0.166	11.4	1
11031	2378-TCDF	51207-31-9	2.94 Q	0.376	1.14	1
11650	2378-TCDF-Conf	51207-31-9	3.93 B	0.0890	1.14	1
11031	12378-PeCDF	57117-41-6	7.16 B	0.0870	5.68	1
11031	23478-PeCDF	57117-31-4	4.19 JB	0.0865	5.68	1
11031	123478-HxCDF	70648-26-9	11.8 B	0.155	5.68	1
11031	123678-HxCDF	57117-44-9	9.15 B	0.132	5.68	1
11031	123789-HxCDF	72918-21-9	1.86 JB	0.166	5.68	1
11031	234678-HxCDF	60851-34-5	14.2 B	0.147	5.68	1
11031	1234678-HpCDF	67562-39-4	172 B	0.0997	5.68	1
11031	1234789-HpCDF	55673-89-7	21.8	0.151	5.68	1
11031	OCDF	39001-02-0	398 B	0.0678	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	99	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: **SL-273-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199415
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4719 SDG#: DX047-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-273-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199415
LLI Group # 1231922
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

Submitted: 02/05/2011 11:00
Reported: 03/18/2011 08:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4719 SDG#: DX047-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11045001	02/18/2011 10:35	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11045001	03/15/2011 19:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11045001	02/14/2011 12:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231922
Reported: 03/18/11 at 08:59 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11047162401A	Sample number(s): 6199410-6199415								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11045001	Sample number(s): 6199410-6199415								
2378-TCDD	0.0352 U	0.0352	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0347 J	0.0336	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0225 U	0.0225	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0239 U	0.0239	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0229 U	0.0229	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.144 J	0.0361	5.00	ng/kg	94		70-140		
OCDD	0.305 J	0.0254	10.0	ng/kg	93		78-144		
2378-TCDF	0.0349 U	0.0349	1.00	ng/kg	102		75-158		
2378-TCDF-Conf	0.0433 J	0.0179	1.00	ng/kg					
12378-PeCDF	0.0309 J	0.0150	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0462 J	0.0163	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0356 J	0.0197	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0220 J	0.0138	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0277 J	0.0199	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0300 J	0.0156	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.0350 J	0.0106	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0167 U	0.0167	5.00	ng/kg	93		78-138		
OCDF	0.227 J	0.0489	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11047162401A	Sample number(s): 6199410-6199415					BKG: P199404			
28a Moisture Content by 160.3						11.8	11.8	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231922
Reported: 03/18/11 at 08:59 AM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11045001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6199410	72	85	71	81	73	80
6199411	76	95	68	83	78	76
6199412	66	90	61	78	72	68
6199413	68	93	66	79	77	74
6199414	73	99	61	78	76	67
6199415	74	95	74	84	77	77
Blank	64	75	57	74	68	61
OPR	63	77	67	77	70	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6199410	90	73	85	85	83	79
6199411	86	75	84	90	94	81
6199412	101	77	75	83	84	75
6199413	93	80	80	87	93	80
6199414	93	68	64	96	102	77
6199415	99	78	85	91	94	82
Blank	80	61	58	82	80	71
OPR	75	66	72	86	78	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6199410	79	81	85	99	72	86
6199411	80	82	88	96	72	94
6199412	75	72	92	98	66	88
6199413	78	80	88	99	67	88
6199414	78	81	85	88	71	99
6199415	80	82	93	105	75	95
Blank	72	73	76	84	63	86
OPR	69	65	76	85	64	82
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6199410	
6199411	
6199412	
6199413	
6199414	
6199415	76
Blank	66
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenoyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5C-SB-4.0-5.0	2.04.2011	0923	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															Amended COC. NLM 2/7/11
SL-041-SA5C-SB-4.5	2.04.2011	0918	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-4.0-5.0	2.04.2011	1135	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-4.5	2.04.2011	1133	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-8.0-9.0	2.04.2011	1150	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-8.5	2.04.2011	1146	SOIL	NONE	4-Encores									X	X												
SL-165-SA5B-SB-4.0-5.0	2.04.2011	1004	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-165-SA5B-SB-4.5	2.04.2011	1002	SOIL	NONE	4-Encores									X	X												
SL-272-SA5B-SB-4.0-5.0	2.04.2011	1510	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-272-SA5B-SB-4.5	2.04.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-273-SA5B-SB-2.0-3.0	2.04.2011	1357	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-273-SA5B-SB-2.5	2.04.2011	1355	SOIL	NONE	4-Encores									X	X												
TB-020411	2.04.2011		WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (*Signature*)	**Date/Time** 02/04/2011 / 17:00	**Received for Laboratory by: (*Signature*)**	**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8695 1432 1229	**No. of coolers = 1**

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Monday, February 07, 2011 3:30 PM
To: Bloisa, Peggy; Burgesser, Todd; Laura Rainey; Nicole Maljovec; SA Env Entry; Samaritoni, Shelley; Zakowski, Cherie
Subject: Revised COC for 2/4/11
Attachments: COC_subsurface_samples_02_04_11REVISED.xls

The sample location issue has been resolved. My apologies for any inconvenience.

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
Please consider the environment before printing this e-mail.

acct# 13013 Cp# 1231922 Sample# 6199410-15

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Chad Man

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5B-SB-4.0-5.0	2.04.2011	0923	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-041-SA5B-SB-4.5	2.04.2011	0918	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-4.0-5.0	2.04.2011	1135	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-4.5	2.04.2011	1133	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-8.0-9.0	2.04.2011	1150	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-8.5	2.04.2011	1146	SOIL	NONE	4-Encores									X	X												
SL-165-SA5B-SB-4.0-5.0	2.04.2011	1004	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-165-SA5B-SB-4.5	2.04.2011	1002	SOIL	NONE	4-Encores									X	X												
SL-272-SA5B-SB-4.0-5.0	2.04.2011	1510	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-272-SA5B-SB-4.5	2.04.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-273-SA5B-SB-2.0-3.0	2.04.2011	1357	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-273-SA5B-SB-2.5	2.04.2011	1355	SOIL	NONE	4-Encores									X	X												
TB-020411	2.04.2011		WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/04/2011 / 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 2/4/11 / 1700 — Airbill No.(s): 8695 1432 1229

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/08/2011
Group Number: 1232079
SDG: DE077
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-048-SA5A-SB-3.0-4.0 Soil	6200286
SL-049-SA5A-SB-2.0-3.0 Soil	6200287
SL-160-SA5B-SB-4.0-5.0 Soil	6200288
SL-161-SA5B-SB-4.0-5.0 Soil	6200289
SL-162-SA5B-SB-4.0-5.0 Soil	6200290
SL-163-SA5B-SB-3.5-4.5 Soil	6200291
TB-020711 Water	6200292

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Erik J. Frederiksen
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0	0.91
06192	Benzene	71-43-2	0.1	U	0.1	4.0	0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.91
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.91
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.91
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0	0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.91
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.91
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.91
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.91
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0	0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.91
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.91
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0	0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0	0.91
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0	0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.91

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.0	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.91
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0	0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	22.98
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	730	U	730	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.94	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.41	21.5	1
07914	Boron	7440-42-8	0.958	U	0.958	5.38	1
01650	Calcium	7440-70-2	2,610		6.60	21.5	1
01654	Iron	7439-89-6	22,700		5.07	21.5	1
01656	Lithium	7439-93-2	21.5		0.24	2.2	1
01657	Magnesium	7439-95-4	5,580		2.73	10.8	1
06958	Manganese	7439-96-5	250		0.0839	0.538	1
10145	Phosphorus	7723-14-0	378		0.603	10.8	1
01662	Potassium	7440-09-7	1,960		19.4	53.8	1
01667	Sodium	7440-23-5	102	J	40.1	108	1
07968	Strontium	7440-24-6	18.6		0.0667	0.538	1
06969	Tin	7440-31-5	2.45	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,170		0.409	1.08	1
10146	Zirconium	7440-67-7	2.09	J	0.904	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.147	J	0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.33		0.0878	0.439	2
06126	Barium	7440-39-3	57.3		0.119	0.439	2
06127	Beryllium	7440-41-7	0.472		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.0580	J	0.0439	0.110	2
06131	Chromium	7440-47-3	24.3		0.132	0.439	2
06132	Cobalt	7440-48-4	6.72		0.0220	0.110	2
06133	Copper	7440-50-8	8.40		0.0724	0.439	2
06135	Lead	7439-92-1	5.03		0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.581		0.0549	0.110	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

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Suite 210
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SL048 SDG#: DE077-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	16.3		0.110	0.439	2
06141	Selenium	7782-49-2	0.146	J	0.0439	0.439	2
06142	Silver	7440-22-4	0.0191	J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.276		0.0329	0.110	2
06148	Vanadium	7440-62-2	42.0		0.0241	0.110	2
06149	Zinc	7440-66-6	51.1		0.615	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	556		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.39		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-048-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL048 SDG#: DE077-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 19:15	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 22:24	Sara E Johnson	22.98
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:41	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:19	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 09:43	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 09:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 19:03	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 10:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 21:17	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:31	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:31	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:10	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:31	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:31	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200286
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL048 SDG#: DE077-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 12:52	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 04:51	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 06:37	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2	0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1	0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1	0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2	0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1	0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1	0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1	0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1	0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1	0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1	0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1	0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1	0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1	0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1	0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1	0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1	0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1	0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1	0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1	0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1	0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1	0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2	0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1	0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2	0.9
06192	Methylene Chloride	75-09-2	0.82	J	0.24	4.1	0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.9

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1	0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1	0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1	0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1	0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1	0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1	0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1	0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1	0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1	0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1	0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1	0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1	0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1	0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	24.04
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U	760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	J	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	2.5		0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.90	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	J	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.92	J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400		5.56	22.1	1
07914	Boron	7440-42-8	0.983	U	0.983	5.52	1
01650	Calcium	7440-70-2	2,390		6.77	22.1	1
01654	Iron	7439-89-6	20,900		5.20	22.1	1
01656	Lithium	7439-93-2	22.8		0.24	2.2	1
01657	Magnesium	7439-95-4	4,610		2.81	11.0	1
06958	Manganese	7439-96-5	331		0.0862	0.552	1
10145	Phosphorus	7723-14-0	517		0.619	11.0	1
01662	Potassium	7440-09-7	3,100		19.9	55.2	1
01667	Sodium	7440-23-5	68.3	J	41.2	110	1
07968	Strontium	7440-24-6	16.6		0.0685	0.552	1
06969	Tin	7440-31-5	2.44	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,120		0.420	1.10	1
10146	Zirconium	7440-67-7	1.72	J	0.928	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0663	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.02		0.0884	0.442	2
06126	Barium	7440-39-3	90.5		0.119	0.442	2
06127	Beryllium	7440-41-7	0.543		0.0177	0.110	2
06128	Cadmium	7440-43-9	0.125		0.0442	0.110	2
06131	Chromium	7440-47-3	17.8		0.133	0.442	2
06132	Cobalt	7440-48-4	5.60		0.0221	0.110	2
06133	Copper	7440-50-8	9.29		0.0729	0.442	2
06135	Lead	7439-92-1	5.54		0.0115	0.221	2
06138	Molybdenum	7439-98-7	0.594		0.0552	0.110	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE077-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	12.7	0.110	0.442	2
06141	Selenium	7782-49-2	0.110 J	0.0442	0.442	2
06142	Silver	7440-22-4	0.0343 J	0.0133	0.110	2
06145	Thallium	7440-28-0	0.278	0.0331	0.110	2
06148	Vanadium	7440-62-2	33.6	0.0243	0.110	2
06149	Zinc	7440-66-6	57.1	0.619	3.31	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	539	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.36	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE077-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 21:29	Laura M Krieger	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 22:44	Sara E Johnson	24.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:23	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 10:09	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 11:08	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 19:59	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 21:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:45	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:28	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:45	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:28	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:45	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:45	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200287
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE077-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:28	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 13:36	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 05:16	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 06:49	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.4	U	8.4	10	1.13
06192	Benzene	71-43-2	0.12	U	0.12	5.0	1.13
06192	Bromobenzene	108-86-1	0.16	U	0.16	5.0	1.13
06192	Bromochloromethane	74-97-5	0.41	U	0.41	5.0	1.13
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	5.0	1.13
06192	Bromoform	75-25-2	0.50	U	0.50	5.0	1.13
06192	Bromomethane	74-83-9	0.31	U	0.31	5.0	1.13
06192	2-Butanone	78-93-3	1.5	U	1.5	10	1.13
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	5.0	1.13
06192	sec-Butylbenzene	135-98-8	0.08	U	0.08	5.0	1.13
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	5.0	1.13
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	5.0	1.13
06192	Chlorobenzene	108-90-7	0.14	U	0.14	5.0	1.13
06192	Chloroethane	75-00-3	0.16	U	0.16	5.0	1.13
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	5.0	1.13
06192	Chloroform	67-66-3	0.15	U	0.15	5.0	1.13
06192	Chloromethane	74-87-3	0.41	U	0.41	5.0	1.13
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	5.0	1.13
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	5.0	1.13
06192	Chlorotrifluoroethene	79-38-9	0.62	U	0.62	6.2	1.13
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.87	U	0.87	5.0	1.13
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	5.0	1.13
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	5.0	1.13
06192	Dibromomethane	74-95-3	0.30	U	0.30	5.0	1.13
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	5.0	1.13
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	5.0	1.13
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	5.0	1.13
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	5.0	1.13
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	5.0	1.13
06192	1,2-Dichloroethane	107-06-2	0.19	U	0.19	5.0	1.13
06192	1,1-Dichloroethene	75-35-4	0.49	U	0.49	5.0	1.13
06192	cis-1,2-Dichloroethene	156-59-2	0.24	U	0.24	5.0	1.13
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	5.0	1.13
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	5.0	1.13
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	5.0	1.13
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	5.0	1.13
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	5.0	1.13
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.0	1.13
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	5.0	1.13
06192	Ethylbenzene	100-41-4	0.08	U	0.08	5.0	1.13
06192	Freon 113	76-13-1	0.14	U	0.14	5.0	1.13
06192	Freon 133a	75-88-7	0.62	U	0.62	6.2	1.13
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	5.0	1.13
06192	2-Hexanone	591-78-6	2.0	U	2.0	10	1.13
06192	Isopropylbenzene	98-82-8	0.08	U	0.08	5.0	1.13
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	5.0	1.13
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	5.0	1.13
06192	4-Methyl-2-pentanone	108-10-1	0.49	U	0.49	10	1.13
06192	Methylene Chloride	75-09-2	0.55	J	0.30	5.0	1.13
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	5.0	1.13

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	5.0	1.13
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	5.0	1.13
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.29	U	0.29	5.0	1.13
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	5.0	1.13
06192	Toluene	108-88-3	0.1	U	0.1	5.0	1.13
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	5.0	1.13
06192	1,2,4-Trichlorobenzene	120-82-1	0.23	U	0.23	5.0	1.13
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	5.0	1.13
06192	1,1,2-Trichloroethane	79-00-5	0.34	U	0.34	5.0	1.13
06192	Trichloroethene	79-01-6	0.19	U	0.19	5.0	1.13
06192	Trichlorofluoromethane	75-69-4	0.36	U	0.36	5.0	1.13
06192	1,2,3-Trichloropropane	96-18-4	0.41	U	0.41	5.0	1.13
06192	1,2,4-Trimethylbenzene	95-63-6	0.50	U	0.50	5.0	1.13
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	5.0	1.13
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	5.0	1.13
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	5.0	1.13
06192	o-Xylene	95-47-6	0.21	U	0.21	5.0	1.13
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.7	U	6.7	20	30.27
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.40	J	0.37	1.8	1
10138	Anthracene	120-12-7	1.1	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.6	20	1
10138	Chrysene	218-01-9	1.4	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	1.4	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.79	J	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.90	J	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Phenanthrene	85-01-8	1.4	J	0.74	1.8	1
10138	Pyrene	129-00-0	1.5	J	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.2	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	2.3		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		5.44	21.6	1
07914	Boron	7440-42-8	0.963	U	0.963	5.41	1
01650	Calcium	7440-70-2	2,400		6.63	21.6	1
01654	Iron	7439-89-6	20,500		5.10	21.6	1
01656	Lithium	7439-93-2	21.9		0.24	2.2	1
01657	Magnesium	7439-95-4	4,150		2.75	10.8	1
06958	Manganese	7439-96-5	200		0.0844	0.541	1
10145	Phosphorus	7723-14-0	224		0.606	10.8	1
01662	Potassium	7440-09-7	1,620		19.5	54.1	1
01667	Sodium	7440-23-5	127		40.4	108	1
07968	Strontium	7440-24-6	18.2		0.0671	0.541	1
06969	Tin	7440-31-5	2.45	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,060		0.411	1.08	1
10146	Zirconium	7440-67-7	2.18	J	0.909	5.41	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0656	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.96		0.0874	0.437	2
06126	Barium	7440-39-3	76.2		0.118	0.437	2
06127	Beryllium	7440-41-7	0.586		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.117		0.0437	0.109	2
06131	Chromium	7440-47-3	20.9		0.131	0.437	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL160 SDG#: DE077-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	4.44	0.0219	0.109	2
06133	Copper	7440-50-8	7.54	0.0721	0.437	2
06135	Lead	7439-92-1	5.45	0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.268	0.0546	0.109	2
06139	Nickel	7440-02-0	13.7	0.109	0.437	2
06141	Selenium	7782-49-2	0.0841 J	0.0437	0.437	2
06142	Silver	7440-22-4	0.767	0.0131	0.109	2
06145	Thallium	7440-28-0	0.233	0.0328	0.109	2
06148	Vanadium	7440-62-2	35.0	0.0240	0.109	2
06149	Zinc	7440-66-6	44.6	0.612	3.28	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	553	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-160-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL160 SDG#: DE077-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 20:00	Laura M Krieger	1.13
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 23:04	Sara E Johnson	30.27
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:29	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:27	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 10:36	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 11:40	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 20:18	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/09/2011 03:55	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 21:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:47	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:31	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:47	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:31	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:47	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:47	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200288
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL160 SDG#: DE077-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:31	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 13:51	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 05:40	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11043243201A	02/16/2011 07:08	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.6	U	7.6	9.0	1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1.02
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0	1.02
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5	1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	1.02
06192	Chloroform	67-66-3	0.14	U	0.14	4.5	1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1.02
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7	1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5	1.02
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5	1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1.02
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5	1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1.02
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5	1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1.02
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5	1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1.02
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7	1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0	1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5	1.02
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0	1.02
06192	Methylene Chloride	75-09-2	0.63	J	0.27	4.5	1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1.02

*=This limit was used in the evaluation of the final result

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1.02
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5	1.02
06192	Toluene	108-88-3	0.09	U	0.09	4.5	1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1.02
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5	1.02
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5	1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	1.02
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5	1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1.02
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5	1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	24.8
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.59	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.88	J	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.76	J	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.94	J	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	1.0	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.86	J	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	1.1	J	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Phenanthrene	85-01-8	0.93	J	0.74	1.8	1
10138	Pyrene	129-00-0	1.1	J	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	3.3	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	9.3		0.37	1.9	1
10225	PCB-1260	11096-82-5	3.1		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.46	21.7	1
07914	Boron	7440-42-8	0.965	U	0.965	5.42	1
01650	Calcium	7440-70-2	2,510		6.65	21.7	1
01654	Iron	7439-89-6	27,400		5.11	21.7	1
01656	Lithium	7439-93-2	27.1		0.24	2.2	1
01657	Magnesium	7439-95-4	4,610		2.75	10.8	1
06958	Manganese	7439-96-5	341		0.0846	0.542	1
10145	Phosphorus	7723-14-0	255		0.607	10.8	1
01662	Potassium	7440-09-7	1,860		19.5	54.2	1
01667	Sodium	7440-23-5	140		40.5	108	1
07968	Strontium	7440-24-6	22.0		0.0672	0.542	1
06969	Tin	7440-31-5	2.70	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,280		0.412	1.08	1
10146	Zirconium	7440-67-7	2.64	J	0.911	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0919	J	0.0638	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.03		0.0851	0.425	2
06126	Barium	7440-39-3	107		0.115	0.425	2
06127	Beryllium	7440-41-7	0.745		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.105	J	0.0425	0.106	2
06131	Chromium	7440-47-3	21.5		0.128	0.425	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL161 SDG#: DE077-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	6.48	0.0213	0.106	2
06133	Copper	7440-50-8	8.48	0.0702	0.425	2
06135	Lead	7439-92-1	7.45	0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.628	0.0532	0.106	2
06139	Nickel	7440-02-0	13.4	0.106	0.425	2
06141	Selenium	7782-49-2	0.0823 J	0.0425	0.425	2
06142	Silver	7440-22-4	0.873	0.0128	0.106	2
06145	Thallium	7440-28-0	0.235	0.0319	0.106	2
06148	Vanadium	7440-62-2	40.5	0.0234	0.106	2
06149	Zinc	7440-66-6	47.4	0.596	3.19	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	554	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.62	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-161-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-161-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL161 SDG#: DE077-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 20:22	Laura M Krieger	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 23:24	Sara E Johnson	24.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:30	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 18:51	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 12:12	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 20:36	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 21:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:55	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:55	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:40	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:55	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:55	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200289
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL161 SDG#: DE077-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 14:06	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 06:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 07:14	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-162-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.0	U	8.0	9.6	1.06
06192	Benzene	71-43-2	0.12	U	0.12	4.8	1.06
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8	1.06
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8	1.06
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8	1.06
06192	Bromoform	75-25-2	0.48	U	0.48	4.8	1.06
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8	1.06
06192	2-Butanone	78-93-3	1.5	U	1.5	9.6	1.06
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8	1.06
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8	1.06
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8	1.06
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8	1.06
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8	1.06
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8	1.06
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8	1.06
06192	Chloroform	67-66-3	0.14	U	0.14	4.8	1.06
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8	1.06
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8	1.06
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8	1.06
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0	1.06
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.84	U	0.84	4.8	1.06
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8	1.06
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8	1.06
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8	1.06
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8	1.06
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8	1.06
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8	1.06
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8	1.06
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8	1.06
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8	1.06
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8	1.06
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8	1.06
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8	1.06
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8	1.06
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8	1.06
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8	1.06
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8	1.06
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8	1.06
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8	1.06
06192	Ethylbenzene	100-41-4	0.13	J	0.07	4.8	1.06
06192	Freon 113	76-13-1	0.13	U	0.13	4.8	1.06
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0	1.06
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8	1.06
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.6	1.06
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8	1.06
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8	1.06
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8	1.06
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.6	1.06
06192	Methylene Chloride	75-09-2	0.72	J	0.29	4.8	1.06
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8	1.06

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8	1.06
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8	1.06
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.8	1.06
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8	1.06
06192	Toluene	108-88-3	0.1	U	0.1	4.8	1.06
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8	1.06
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8	1.06
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8	1.06
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8	1.06
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8	1.06
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8	1.06
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8	1.06
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8	1.06
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8	1.06
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8	1.06
06192	m+p-Xylene	179601-23-1	0.46	J	0.20	4.8	1.06
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8	1.06
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17	25
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.61	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	1.4	J	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	4.5		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.51	21.9	1
07914	Boron	7440-42-8	0.974	U	0.974	5.47	1
01650	Calcium	7440-70-2	4,140		6.71	21.9	1
01654	Iron	7439-89-6	27,700		5.16	21.9	1
01656	Lithium	7439-93-2	31.6		0.24	2.2	1
01657	Magnesium	7439-95-4	5,420		2.78	10.9	1
06958	Manganese	7439-96-5	199		0.0854	0.547	1
10145	Phosphorus	7723-14-0	183		0.613	10.9	1
01662	Potassium	7440-09-7	1,460		19.7	54.7	1
01667	Sodium	7440-23-5	281		40.8	109	1
07968	Strontium	7440-24-6	30.1		0.0679	0.547	1
06969	Tin	7440-31-5	2.85	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,310		0.416	1.09	1
10146	Zirconium	7440-67-7	2.96	J	0.919	5.47	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.121	J	0.0650	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.79		0.0867	0.434	2
06126	Barium	7440-39-3	81.3		0.117	0.434	2
06127	Beryllium	7440-41-7	0.653		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.172		0.0434	0.108	2
06131	Chromium	7440-47-3	24.3		0.130	0.434	2
06132	Cobalt	7440-48-4	4.29		0.0217	0.108	2
06133	Copper	7440-50-8	9.81		0.0715	0.434	2
06135	Lead	7439-92-1	6.56		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.371		0.0542	0.108	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL162 SDG#: DE077-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	13.5	0.108	0.434	2
06141	Selenium	7782-49-2	0.0529 J	0.0434	0.434	2
06142	Silver	7440-22-4	3.05	0.0130	0.108	2
06145	Thallium	7440-28-0	0.230	0.0325	0.108	2
06148	Vanadium	7440-62-2	39.0	0.0238	0.108	2
06149	Zinc	7440-66-6	50.4	0.607	3.25	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0122 J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	567	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.72	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-162-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL162 SDG#: DE077-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 20:44	Laura M Krieger	1.06
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/08/2011 23:44	Sara E Johnson	25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:36	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:34	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 19:18	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 12:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 20:55	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:00	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:57	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:57	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:43	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:57	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:57	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200290
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL162 SDG#: DE077-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 14:20	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202B	02/22/2011 06:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11043243201A	02/16/2011 07:33	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202B	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL163 SDG#: DE077-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.2	U	8.2	9.8	1.14
06192	Benzene	71-43-2	0.12	U	0.12	4.9	1.14
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.9	1.14
06192	Bromochloromethane	74-97-5	0.41	U	0.41	4.9	1.14
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.9	1.14
06192	Bromoform	75-25-2	0.49	U	0.49	4.9	1.14
06192	Bromomethane	74-83-9	0.31	U	0.31	4.9	1.14
06192	2-Butanone	78-93-3	1.5	U	1.5	9.8	1.14
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	4.9	1.14
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.9	1.14
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	4.9	1.14
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.9	1.14
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.9	1.14
06192	Chloroethane	75-00-3	0.16	U	0.16	4.9	1.14
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	4.9	1.14
06192	Chloroform	67-66-3	0.15	U	0.15	4.9	1.14
06192	Chloromethane	74-87-3	0.41	U	0.41	4.9	1.14
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.9	1.14
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.9	1.14
06192	Chlorotrifluoroethene	79-38-9	0.61	U	0.61	6.1	1.14
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.86	U	0.86	4.9	1.14
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	4.9	1.14
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	4.9	1.14
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.9	1.14
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.9	1.14
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	4.9	1.14
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	4.9	1.14
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	4.9	1.14
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.9	1.14
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.9	1.14
06192	1,1-Dichloroethene	75-35-4	0.48	U	0.48	4.9	1.14
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.9	1.14
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	4.9	1.14
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	4.9	1.14
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.9	1.14
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	4.9	1.14
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.9	1.14
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	4.9	1.14
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	4.9	1.14
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.9	1.14
06192	Freon 113	76-13-1	0.13	U	0.13	4.9	1.14
06192	Freon 133a	75-88-7	0.61	U	0.61	6.1	1.14
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.9	1.14
06192	2-Hexanone	591-78-6	2.0	U	2.0	9.8	1.14
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.9	1.14
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.9	1.14
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	4.9	1.14
06192	4-Methyl-2-pentanone	108-10-1	0.48	U	0.48	9.8	1.14
06192	Methylene Chloride	75-09-2	0.75	J	0.29	4.9	1.14
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	4.9	1.14

*=This limit was used in the evaluation of the final result

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL163 SDG#: DE077-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.9	1.14
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.9	1.14
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.9	1.14
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	4.9	1.14
06192	Toluene	108-88-3	0.1	U	0.1	4.9	1.14
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.9	1.14
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.9	1.14
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	4.9	1.14
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.9	1.14
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.9	1.14
06192	Trichlorofluoromethane	75-69-4	0.36	U	0.36	4.9	1.14
06192	1,2,3-Trichloropropane	96-18-4	0.41	U	0.41	4.9	1.14
06192	1,2,4-Trimethylbenzene	95-63-6	0.49	U	0.49	4.9	1.14
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.9	1.14
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	4.9	1.14
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	4.9	1.14
06192	o-Xylene	95-47-6	0.21	U	0.21	4.9	1.14
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.6	U	6.6	20	30.49
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL163 SDG#: DE077-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.41	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL163 SDG#: DE077-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.83	J	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	2.1		0.36	1.8	1
10225	PCB-1260	11096-82-5	1.1	J	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,500		5.31	21.1	1
07914	Boron	7440-42-8	0.940	U	0.940	5.28	1
01650	Calcium	7440-70-2	2,410		6.48	21.1	1
01654	Iron	7439-89-6	22,900		4.98	21.1	1
01656	Lithium	7439-93-2	23.0		0.23	2.1	1
01657	Magnesium	7439-95-4	4,270		2.68	10.6	1
06958	Manganese	7439-96-5	248		0.0824	0.528	1
10145	Phosphorus	7723-14-0	214		0.592	10.6	1
01662	Potassium	7440-09-7	1,840		19.0	52.8	1
01667	Sodium	7440-23-5	121		39.4	106	1
07968	Strontium	7440-24-6	21.0		0.0655	0.528	1
06969	Tin	7440-31-5	2.83	J	1.06	10.6	1
06970	Titanium	7440-32-6	1,200		0.401	1.06	1
10146	Zirconium	7440-67-7	2.42	J	0.887	5.28	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0622	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.98		0.0829	0.414	2
06126	Barium	7440-39-3	110		0.112	0.414	2
06127	Beryllium	7440-41-7	0.688		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.149		0.0414	0.104	2
06131	Chromium	7440-47-3	21.9		0.124	0.414	2
06132	Cobalt	7440-48-4	5.51		0.0207	0.104	2
06133	Copper	7440-50-8	8.33		0.0684	0.414	2
06135	Lead	7439-92-1	7.00		0.0108	0.207	2
06138	Molybdenum	7439-98-7	0.567		0.0518	0.104	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL163 SDG#: DE077-06

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	13.5		0.104	0.414	2
06141	Selenium		7782-49-2	0.122	J	0.0414	0.414	2
06142	Silver		7440-22-4	1.84		0.0124	0.104	2
06145	Thallium		7440-28-0	0.223		0.0311	0.104	2
06148	Vanadium		7440-62-2	39.4		0.0228	0.104	2
06149	Zinc		7440-66-6	56.4		0.580	3.11	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0058	J	0.0030	0.105	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.2		0.86	1.1	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.7	U	9.7	32.3	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.1		0.22	1.1	1
		ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential		n.a.	542		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.77		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	7.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-163-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-163-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL163 SDG#: DE077-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110391AA	02/08/2011 21:07	Laura M Krieger	1.14
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110392AA	02/09/2011 00:04	Sara E Johnson	30.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:19	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201103923655	02/08/2011 18:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103923655	02/08/2011 18:37	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 19:45	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11041SLE026	02/11/2011 13:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11041SLE026	02/10/2011 18:05	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 21:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 16:59	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:46	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 16:59	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:46	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 16:59	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 16:59	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200291
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL163 SDG#: DE077-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:46	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 14:35	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202B	02/22/2011 08:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11043243201A	02/16/2011 07:45	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202B	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

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Analysis Report

Sample Description: **TB-020711 Water**
SSFL Area IV Collocated Soil Sampling
TB-020711

LLI Sample # WW 6200292
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 08:00

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB207 SDG#: DE077-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TB-020711 Water**
SSFL Area IV Collocated Soil Sampling
TB-020711

LLI Sample # WW 6200292
LLI Group # 1232079
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 08:00

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 11:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB207 SDG#: DE077-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110451AA	02/14/2011 10:06	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110391AA	02/08/2011 12:22	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110391AA	02/08/2011 12:22	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110451AA	02/14/2011 10:06	Chelsea B Eastep	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110391AA	Sample number(s): 6200286-6200291									
Acetone	6.7	U	6.7	8.0	ug/kg	93	99	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	103	103	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	86	86	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	98	101	79-124	2	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95	94	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	96	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	86	87	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	97	94	46-153	4	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	79	99	72-120	22	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	92	90	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	85	82	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102	102	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102	103	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	84	83	37-154	1	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	79	77	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	101	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	86	85	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94	94	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	94	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	70	70	22-131	0	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84	89	58-120	6	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	103	105	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	101	101	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	99	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	79	96	79-120	19	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92	91	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	94	92	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	74	73	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	104	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	99	98	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	98	103	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	101	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	96	99	79-120	3	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	100	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	103	101	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	103	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97	97	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	85	82	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	90	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	97	96	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	100	104	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	85	86	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	85	82	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	73	69	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	91	92	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	93	91	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	85	87	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	71	71	61-134	0	30
Methylene Chloride	0.44	J	0.24	4.0	ug/kg	90	95	76-124	5	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101	99	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	99	99	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	106	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101	101	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	100	77-120	1	30
Toluene	0.09	J	0.08	4.0	ug/kg	103	103	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	81	80	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	73	69	68-120	5	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99	97	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	106	105	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	96	95	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87	93	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	99	97	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	94	93	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	94	92	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	90	89	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	104	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	89	89	80-120	0	30
Batch number: E110391AA	Sample number(s): 6200292									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	107	102	60-132	5	30
Batch number: E110392AA	Sample number(s): 6200286-6200291									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	118	114	70-130	3	30
Batch number: Y110451AA	Sample number(s): 6200292									
Acetone	6	U	6.	20	ug/l	126	124	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	99	100	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	98	103	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	102	108	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromoform	1	U	1.	5	ug/l	88	94	61-120	7	30
Bromomethane	1	U	1.	5	ug/l	86	81	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	123	126	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	100	97	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	102	99	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	97	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	101	97	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	79	71	49-129	11	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	114	127	56-129	11	30
Chloroform	0.8	U	0.8	5	ug/l	101	101	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	91	84	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	100	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	60	60	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	99	108	56-126	9	30
Dibromochloromethane	1	U	1.	5	ug/l	93	101	80-120	8	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	105	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	98	105	80-120	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	97	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	99	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	76	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	101	102	79-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	111	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	98	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	102	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	101	109	80-120	7	30
2,2-Dichloropropane	1	U	1.	5	ug/l	100	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	100	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	100	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	97	104	79-120	7	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	99	79-120	0	30
Freon 113	2	U	2.	10	ug/l	108	99	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	90	95	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	87	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	115	120	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	99	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	98	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	107	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	107	112	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	101	105	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	96	98	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	100	80-120	5	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	107	71-120	7	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	99	101	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	95	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	93	91	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	106	80-120	6	30
Trichloroethene	1	U	1.	5	ug/l	98	97	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	104	95	64-129	9	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	111	80-120	11	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	100	102	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	100	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	86	65-125	10	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
Batch number: 11039SLA026	Sample number(s): 6200286-6200291									
Aniline	170 U		170.	500	ug/kg	62		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	87		79-117		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	101		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	88		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670 U		670.	1,000	ug/kg	75		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	117		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	89		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	76		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	108		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	104		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	99		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	86		51-117		
Phenol	17	U	17.	170	ug/kg	113*		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11041SLE026	Sample number(s): 6200286-6200291									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	101		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	114		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	107		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	130		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	111		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	107		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	109		79-121		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	93		55-118		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	116		56-121		
Batch number: 110480040A	Sample number(s): 6200286-6200291									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	75	63	36-106	18	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110411026002A	Sample number(s): 6200286-6200291									
Antimony	0.0600	U	0.0600	0.200	mg/kg	97		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	106		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	110		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	112		82-118		
Copper	0.0662	J	0.0660	0.400	mg/kg	102		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	105		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	104		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	100		78-122		
Batch number: 110411026002B	Sample number(s): 6200286-6200291									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 110411026002C	Sample number(s): 6200286-6200291									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 110411026002D	Sample number(s): 6200286-6200291									
Barium	0.108	U	0.108	0.400	mg/kg	102		79-121		
Batch number: 110415708002	Sample number(s): 6200286-6200291									
Aluminum	5.03	U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	96		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	0.560	U	0.560	10.0	mg/kg	108		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0620	U	0.0620	0.500	mg/kg	107		79-121		
Tin	1.50	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	99		80-120		
Batch number: 110415711002	Sample number(s): 6200286-6200291									
Mercury	0.0027	U	0.0027	0.0940	mg/kg	99		88-123		
Batch number: 11043243201A	Sample number(s): 6200286-6200291									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11048048202A	Sample number(s): 6200286-6200289									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11048048202B	Sample number(s): 6200290-6200291									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11052621201A	Sample number(s): 6200286-6200291									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11041039401A	Sample number(s): 6200286-6200291									
22a pH by 9045C						100		95-105		
Batch number: 11041182101A	Sample number(s): 6200286-6200291									
32a OR Potential						100		98-102		
Batch number: 11047162401B	Sample number(s): 6200286-6200291									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11039SLA026	Sample number(s): 6200286-6200291 UNSPK: P199403								
Aniline	77	79	35-95	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	72	67	10-173	6	30				
Benzyl alcohol	133*	119*	67-115	11	30				
4-Bromophenyl-phenylether	95	82	67-129	15	30				
Carbazole	108	98	64-120	10	30				
4-Chloro-3-methylphenol	124*	113*	76-110	9	30				
4-Chloroaniline	63	72	23-95	13	30				
bis(2-Chloroethoxy)methane	98	95	75-104	3	30				
bis(2-Chloroethyl)ether	106	98	60-116	8	30				
bis(2-Chloroisopropyl)ether	111	101	55-142	10	30				
2-Chloronaphthalene	89	71	50-141	22	30				
2-Chlorophenol	121	114	73-121	6	30				
4-Chlorophenyl-phenylether	98	88	80-109	11	30				
Dibenzofuran	104	95	71-112	8	30				
1,2-Dichlorobenzene	94	90	66-108	4	30				
1,3-Dichlorobenzene	88	83	63-109	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	89	84	70-100	5	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	110	105	78-117	5	30				
2,4-Dimethylphenol	109	101	78-110	7	30				
3,5-Dimethylphenol	126	116	70-130	8	30				
4,6-Dinitro-2-methylphenol	53	52	24-116	3	30				
2,4-Dinitrophenol	34	34	20-143	1	30				
2,4-Dinitrotoluene	113	104	73-113	8	30				
2,6-Dinitrotoluene	110	101	69-123	8	30				
1,2-Diphenylhydrazine	113	98	71-129	14	30				
bis(2-Ethylhexyl)phthalate	130*	119	63-122	9	30				
Hexachlorobenzene	95	82	77-114	15	30				
Hexachlorobutadiene	80	75	62-120	7	30				
Hexachlorocyclopentadiene	56	50	10-153	12	30				
Hexachloroethane	90	78	57-109	14	30				
Isophorone	106*	98	73-102	8	30				
2-Methylphenol	136*	121*	75-111	12	30				
4-Methylphenol	137*	117*	71-111	16	30				
2-Nitroaniline	115	105	67-125	9	30				
3-Nitroaniline	107	101	59-122	6	30				
4-Nitroaniline	91	90	52-112	2	30				
Nitrobenzene	103	99	72-106	3	30				
2-Nitrophenol	102	96	74-115	6	30				
4-Nitrophenol	103	99	54-113	5	30				
N-Nitroso-di-n-propylamine	126*	113	60-116	11	30				
N-Nitrosodiphenylamine	102	88	86-145	14	30				
Di-n-octylphthalate	118	109	56-126	8	30				
Pentachlorophenol	69	67	28-127	3	30				
Phenol	135*	129*	58-126	4	30				
1,2,4-Trichlorobenzene	88	81	72-115	9	30				
2,4,5-Trichlorophenol	106	98	78-109	8	30				
2,4,6-Trichlorophenol	97	91	77-115	6	30				
Batch number: 11041SLE026	Sample number(s): 6200286-6200291 UNSPK: 6200286								
Acenaphthene	92	90	63-105	3	30				
Acenaphthylene	98	92	67-114	6	30				
Anthracene	97	96	60-122	2	30				
Benzo(a)anthracene	112	115	59-128	3	30				
Benzo(a)pyrene	103	117	45-138	12	30				
Benzo(b)fluoranthene	118	146	43-155	21	30				
Benzo(g,h,i)perylene	109	100	33-141	9	30				
Benzo(k)fluoranthene	98	123	42-144	22	30				
Butylbenzylphthalate	127	115	57-173	10	30				
Di-n-butylphthalate	108	113	65-148	4	30				
Chrysene	110	112	48-134	2	30				
Dibenz(a,h)anthracene	109	102	22-133	7	30				
Diethylphthalate	105	109	70-136	5	30				
Dimethylphthalate	106	106	74-118	0	30				
Fluoranthene	99	100	26-166	1	30				
Fluorene	97	94	66-122	3	30				
Indeno(1,2,3-cd)pyrene	108	99	21-143	9	30				
1-Methylnaphthalene	92	89	72-123	3	30				
2-Methylnaphthalene	83	81	64-103	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	88	86	61-102	2	30				
N-Nitrosodimethylamine	91	90	48-113	1	30				
Phenanthrene	95	96	12-165	2	30				
Pyrene	112	118	15-153	5	30				
Batch number: 110480040A	Sample number(s): 6200286-6200291 UNSPK: 6200286								
PCB-1016	83	92	29-146	10	50				
PCB-1260	91	105	39-149	14	50				
Batch number: 110411026002A	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Antimony	43*	40*	75-125	9	20	0.134 J	0.136 J	1 (1)	20
Arsenic	108	87	75-125	6	20	6.68	6.79	2	20
Beryllium	88	87	75-125	3	20	0.430	0.450	5 (1)	20
Cadmium	97	99	75-125	1	20	0.0529 J	0.0613 J	15 (1)	20
Chromium	103	95	75-125	3	20	22.2	23.8	7	20
Cobalt	87	87	75-125	2	20	6.12	5.79	6	20
Copper	88	93	75-125	2	20	7.65	7.97	4	20
Lead	104	102	75-125	2	20	4.58	5.01	9	20
Nickel	89	89	75-125	1	20	14.8	14.2	4	20
Silver	98	100	75-125	1	20	0.0174 J	0.0195 J	11 (1)	20
Thallium	86	87	75-125	1	20	0.251	0.219	14 (1)	20
Vanadium	110	120	75-125	1	20	38.2	42.5	11	20
Zinc	99 (2)	117 (2)	75-125	3	20	46.5	46.2	1	20
Batch number: 110411026002B	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Selenium	83	82	75-125	5	20	0.133 J	0.116 J	14 (1)	20
Batch number: 110411026002C	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Molybdenum	98	98	75-125	3	20	0.529	0.541	2	20
Batch number: 110411026002D	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Barium	126 (2)	133 (2)	75-125	0	20	52.2	64.2	21*	20
Batch number: 110415708002	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Aluminum	1344 (2)	1349 (2)	75-125	0	20	14,500	14,400	1	20
Boron	100	99	84-115	3	20	0.873 U	0.881 U	0 (1)	20
Calcium	203 (2)	162 (2)	75-125	6	20	2,370	2,420	2	20
Iron	784 (2)	458 (2)	75-125	2	20	20,700	20,100	3	20
Lithium	100	97	82-114	4	20	19.6	19.8	1	20
Magnesium	351 (2)	177 (2)	75-125	6	20	5,090	4,960	3	20
Manganese	174 (2)	115 (2)	75-125	10	20	228	245	7	20
Phosphorus	139*	96	75-125	10	20	344	342	0	20
Potassium	137*	117	75-125	7	20	1,780	1,780	0	20
Sodium	101	98	75-125	4	20	93.0 J	88.3 J	5 (1)	20
Strontium	100	99	75-115	3	20	17.0	16.7	2	20
Tin	90	90	80-110	2	20	2.24 J	2.42 J	8 (1)	20
Titanium	396 (2)	303 (2)	75-125	7	20	1,060	1,100	3	20
Zirconium	97	96	75-125	4	20	1.91 J	2.35 J	21* (1)	20
Batch number: 110415711002	Sample number(s): 6200286-6200291 UNSPK: 6200286 BKG: 6200286								
Mercury	105	101	65-135	3	20	0.0027 U	0.0027 U	0 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11043243201A	Sample number(s): 6200286-6200291				UNSPK: P199403		BKG: P199403		
3a Cr VI by EPA 7199	92		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11048048202A	Sample number(s): 6200286-6200289				UNSPK: P199403		BKG: P199403		
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11048048202B	Sample number(s): 6200290-6200291				UNSPK: 6200290		BKG: 6200290		
7a Perchlorate EPA 314.0	117		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11052621201A	Sample number(s): 6200286-6200291				UNSPK: 6200286		BKG: 6200286		
11a Anions by 300.0 - Fluoride	54*		80-120			0.97 J	0.80 U	200* (1)	20
Batch number: 11041039401A	Sample number(s): 6200286-6200291				BKG: 6200286				
22a pH by 9045C						6.39	6.31	1	1
Batch number: 11041182101A	Sample number(s): 6200286-6200291				BKG: 6200286				
32a OR Potential						556	560	1	6
Batch number: 11047162401B	Sample number(s): 6200286-6200291				BKG: 6200286				
28a Moisture Content by 160.3						8.9	8.9	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110391AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6200286	109	109	99	85
6200287	109	102	111	88
6200288	113	109	99	83
6200289	112	106	94	96
6200290	114	107	100	81
6200291	115	109	101	81
Blank	98	108	100	84
LCS	100	105	108	105
LCSD	101	104	109	106
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110391AA

	Toluene-d8
6200292	95
Blank	96
LCS	96
LCSD	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Surrogate Quality Control

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110392AA

	Toluene-d8
6200286	95
6200287	94
6200288	95
6200289	95
6200290	94
6200291	95
Blank	95
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6200292	99	101	103	98
Blank	99	101	103	98
LCS	100	103	104	101
LCSD	100	101	105	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11039SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6200286	99	96	100	84	81	110
6200287	104	99	97	84	81	100
6200288	95	92	86	78	71	89
6200289	90	90	96	83	93	96
6200290	89	91	96	87	88	92
6200291	97	99	94	92	94	96
Blank	93	96	98	89	89	98
LCS	105	105	103	97	95	99
MS	125*	115	113	98	89	102
MSD	119	110	109	94	84	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11041SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6200286	94	90	123
6200287	97	90	113
6200288	95	88	111
6200289	90	83	109
6200290	96	87	110
6200291	95	86	109

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232079
Reported: 03/16/11 at 11:53 AM

Surrogate Quality Control

Blank	91	85	105
LCS	101	93	115
MS	97	90	112
MSD	95	83	108
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110480040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6200286	103	109
6200287	103	117
6200288	115	137*
6200289	103	123*
6200290	93	110
6200291	86	111
Blank	96	104
LCS	90	102
LCSD	89	86
MS	82	89
MSD	94	102
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1232079 6200286-92

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-048-SA5A-SB-3.0-4.0	2.07.2011	1228	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-048-SA5A-SB-3.5	2.07.2011	1222	SOIL	NONE	4-Encores									X	X												
SL-049-SA5A-SB-2.0-3.0	2.07.2011	1519	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-049-SA5A-SB-2.5	2.07.2011	1515	SOIL	NONE	4-Encores									X	X												
SL-160-SA5B-SB-4.0-5.0	2.07.2011	1023	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-160-SA5B-SB-4.5	2.07.2011	1020	SOIL	NONE	4-Encores									X	X												
SL-161-SA5B-SB-4.0-5.0	2.07.2011	1433	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-161-SA5B-SB-4.5	2.07.2011	1430	SOIL	NONE	4-Encores									X	X												
SL-162-SA5B-SB-4.0-5.0	2.07.2011	1154	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-162-SA5B-SB-4.5	2.07.2011	1149	SOIL	NONE	4-Encores									X	X												
SL-163-SA5B-SB-3.5-4.5	2.07.2011	1536	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-163-SA5B-SB-4.0	2.07.2011	1533	SOIL	NONE	4-Encores									X	X												
TB-020711	2.07.2011	0800	WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/07/2011 / 17:00	LLI 2/8/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 2902	No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/08/2011
Group Number: 1232085
SDG: DX048
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-048-SA5A-SB-3.0-4.0 Soil	6200343
SL-049-SA5A-SB-2.0-3.0 Soil	6200344
SL-160-SA5B-SB-4.0-5.0 Soil	6200345
SL-161-SA5B-SB-4.0-5.0 Soil	6200346
SL-162-SA5B-SB-4.0-5.0 Soil	6200347
SL-163-SA5B-SB-3.5-4.5 Soil	6200348

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200343
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS048 SDG#: DX048-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200343
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS048 SDG#: DX048-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0354 JBQ	0.0117	1.10	1
11031	12378-PeCDD	40321-76-4	0.0528 JBQ	0.0127	5.49	1
11031	123478-HxCDD	39227-28-6	0.0314 JQ	0.0143	5.49	1
11031	123678-HxCDD	57653-85-7	0.0847 JBQ	0.0144	5.49	1
11031	123789-HxCDD	19408-74-3	0.0722 JB	0.0136	5.49	1
11031	1234678-HpCDD	35822-46-9	0.923 JB	0.0313	5.49	1
11031	OCDD	3268-87-9	7.72 JB	0.0258	11.0	1
11031	2378-TCDF	51207-31-9	0.0106 U	0.0106	1.10	1
11031	12378-PeCDF	57117-41-6	0.0565 JB	0.00615	5.49	1
11031	23478-PeCDF	57117-31-4	0.0774 JB	0.00659	5.49	1
11031	123478-HxCDF	70648-26-9	0.0458 JBQ	0.0124	5.49	1
11031	123678-HxCDF	57117-44-9	0.0563 JBQ	0.00955	5.49	1
11031	123789-HxCDF	72918-21-9	0.0465 JBQ	0.0114	5.49	1
11031	234678-HxCDF	60851-34-5	0.0783 JB	0.00922	5.49	1
11031	1234678-HpCDF	67562-39-4	0.277 JB	0.0142	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0693 JB	0.0199	5.49	1
11031	OCDF	39001-02-0	0.431 JB	0.0234	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200343
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS048 SDG#: DX048-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5A-SB-3.0-4.0

LLI Sample # SW 6200343
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 12:28

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS048 SDG#: DX048-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/24/2011 14:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200344
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS049 SDG#: DX048-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200344
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS049 SDG#: DX048-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0193 JBQ	0.0122	1.14	1
11031	12378-PeCDD	40321-76-4	0.0350 JBQ	0.0146	5.69	1
11031	123478-HxCDD	39227-28-6	0.0325 JQ	0.0196	5.69	1
11031	123678-HxCDD	57653-85-7	0.112 JB	0.0184	5.69	1
11031	123789-HxCDD	19408-74-3	0.165 JB	0.0154	5.69	1
11031	1234678-HpCDD	35822-46-9	1.75 JB	0.0390	5.69	1
11031	OCDD	3268-87-9	26.9 B	0.0367	11.4	1
11031	2378-TCDF	51207-31-9	0.00978 U	0.00978	1.14	1
11031	12378-PeCDF	57117-41-6	0.0310 JBQ	0.00705	5.69	1
11031	23478-PeCDF	57117-31-4	0.0847 JBQ	0.00717	5.69	1
11031	123478-HxCDF	70648-26-9	0.0982 JB	0.0198	5.69	1
11031	123678-HxCDF	57117-44-9	0.0359 JBQ	0.0140	5.69	1
11031	123789-HxCDF	72918-21-9	0.111 JBQ	0.0109	5.69	1
11031	234678-HxCDF	60851-34-5	0.0583 JBQ	0.00944	5.69	1
11031	1234678-HpCDF	67562-39-4	0.418 JB	0.0207	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0520 JB	0.0192	5.69	1
11031	OCDF	39001-02-0	1.29 JB	0.0324	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200344
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS049 SDG#: DX048-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5A-SB-2.0-3.0

LLI Sample # SW 6200344
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:19

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS049 SDG#: DX048-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/24/2011 15:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200345
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS160 SDG#: DX048-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200345
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS160 SDG#: DX048-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0165 JBQ	0.0143	1.10	1
11031	12378-PeCDD	40321-76-4	0.0715 JBQ	0.0262	5.52	1
11031	123478-HxCDD	39227-28-6	0.0918 J	0.0621	5.52	1
11031	123678-HxCDD	57653-85-7	0.512 JB	0.0598	5.52	1
11031	123789-HxCDD	19408-74-3	0.245 JBQ	0.0533	5.52	1
11031	1234678-HpCDD	35822-46-9	12.0 B	0.0474	5.52	1
11031	OCDD	3268-87-9	121 B	0.0508	11.0	1
11031	2378-TCDF	51207-31-9	0.0272 U	0.0272	1.10	1
11031	12378-PeCDF	57117-41-6	0.0131 JBQ	0.0127	5.52	1
11031	23478-PeCDF	57117-31-4	0.0866 JB	0.0132	5.52	1
11031	123478-HxCDF	70648-26-9	0.227 JBQ	0.0387	5.52	1
11031	123678-HxCDF	57117-44-9	0.120 JBQ	0.0275	5.52	1
11031	123789-HxCDF	72918-21-9	0.0391 JB	0.0247	5.52	1
11031	234678-HxCDF	60851-34-5	0.219 JB	0.0216	5.52	1
11031	1234678-HpCDF	67562-39-4	2.10 JB	0.0274	5.52	1
11031	1234789-HpCDF	55673-89-7	0.290 JBQ	0.0299	5.52	1
11031	OCDF	39001-02-0	4.66 JB	0.0296	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200345
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS160 SDG#: DX048-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5B-SB-4.0-5.0

LLI Sample # SW 6200345
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 10:23

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS160 SDG#: DX048-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/24/2011 16:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200346
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS161 SDG#: DX048-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200346
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS161 SDG#: DX048-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	JQ	0.0184	1.11	1
11031	12378-PeCDD	40321-76-4	0.130	JB	0.0334	5.53	1
11031	123478-HxCDD	39227-28-6	0.246	JB	0.0814	5.53	1
11031	123678-HxCDD	57653-85-7	1.13	JB	0.0822	5.53	1
11031	123789-HxCDD	19408-74-3	0.591	JBQ	0.0746	5.53	1
11031	1234678-HpCDD	35822-46-9	34.1	B	0.0705	5.53	1
11031	OCDD	3268-87-9	388	B	0.0555	11.1	1
11031	2378-TCDF	51207-31-9	0.0746	J	0.0312	1.11	1
11031	12378-PeCDF	57117-41-6	0.0442	JBQ	0.0124	5.53	1
11031	23478-PeCDF	57117-31-4	0.135	JBQ	0.0137	5.53	1
11031	123478-HxCDF	70648-26-9	0.334	JBQ	0.0546	5.53	1
11031	123678-HxCDF	57117-44-9	0.256	JB	0.0386	5.53	1
11031	123789-HxCDF	72918-21-9	0.0743	JBQ	0.0421	5.53	1
11031	234678-HxCDF	60851-34-5	0.329	JB	0.0308	5.53	1
11031	1234678-HpCDF	67562-39-4	4.21	JB	0.0379	5.53	1
11031	1234789-HpCDF	55673-89-7	0.483	JB	0.0539	5.53	1
11031	OCDF	39001-02-0	9.85	JB	0.0409	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	30	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200346
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS161 SDG#: DX048-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA5B-SB-4.0-5.0

LLI Sample # SW 6200346
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 14:33

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS161 SDG#: DX048-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 05:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200347
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS162 SDG#: DX048-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200347
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS162 SDG#: DX048-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0755	JBQ	0.0114	1.13	1
11031	12378-PeCDD	40321-76-4	0.249	JB	0.0254	5.64	1
11031	123478-HxCDD	39227-28-6	0.481	JB	0.0345	5.64	1
11031	123678-HxCDD	57653-85-7	1.61	JB	0.0353	5.64	1
11031	123789-HxCDD	19408-74-3	0.940	JB	0.0325	5.64	1
11031	1234678-HpCDD	35822-46-9	41.6	B	0.0589	5.64	1
11031	OCDD	3268-87-9	470	B	0.0377	11.3	1
11031	2378-TCDF	51207-31-9	0.175	JBQ	0.0275	1.13	1
11031	12378-PeCDF	57117-41-6	0.168	JBQ	0.0157	5.64	1
11031	23478-PeCDF	57117-31-4	0.303	JB	0.0153	5.64	1
11031	123478-HxCDF	70648-26-9	0.878	JB	0.0471	5.64	1
11031	123678-HxCDF	57117-44-9	0.377	JB	0.0331	5.64	1
11031	123789-HxCDF	72918-21-9	0.175	JBQ	0.0256	5.64	1
11031	234678-HxCDF	60851-34-5	0.728	JB	0.0242	5.64	1
11031	1234678-HpCDF	67562-39-4	6.33	B	0.0248	5.64	1
11031	1234789-HpCDF	55673-89-7	0.827	JB	0.0239	5.64	1
11031	OCDF	39001-02-0	14.6	B	0.0178	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200347
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS162 SDG#: DX048-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5B-SB-4.0-5.0

LLI Sample # SW 6200347
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 11:54

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS162 SDG#: DX048-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11062001	03/08/2011 14:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11062001	03/03/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200348
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS163 SDG#: DX048-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200348
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS163 SDG#: DX048-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0819	J	0.0117	1.08	1
11031	12378-PeCDD	40321-76-4	0.148	JB	0.0320	5.39	1
11031	123478-HxCDD	39227-28-6	0.394	JB	0.0634	5.39	1
11031	123678-HxCDD	57653-85-7	1.48	JB	0.0627	5.39	1
11031	123789-HxCDD	19408-74-3	0.801	JB	0.0583	5.39	1
11031	1234678-HpCDD	35822-46-9	41.7	B	0.0639	5.39	1
11031	OCDD	3268-87-9	492	B	0.0578	10.8	1
11031	2378-TCDF	51207-31-9	0.145	J	0.0254	1.08	1
11031	12378-PeCDF	57117-41-6	0.0537	JBQ	0.0109	5.39	1
11031	23478-PeCDF	57117-31-4	0.154	JB	0.0122	5.39	1
11031	123478-HxCDF	70648-26-9	0.415	JB	0.0511	5.39	1
11031	123678-HxCDF	57117-44-9	0.290	JB	0.0359	5.39	1
11031	123789-HxCDF	72918-21-9	0.102	JBQ	0.0345	5.39	1
11031	234678-HxCDF	60851-34-5	0.414	JB	0.0277	5.39	1
11031	1234678-HpCDF	67562-39-4	5.47	B	0.0276	5.39	1
11031	1234789-HpCDF	55673-89-7	0.716	JB	0.0338	5.39	1
11031	OCDF	39001-02-0	13.4	B	0.0282	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200348
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS163 SDG#: DX048-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-163-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-163-SA5B-SB-3.5-4.5

LLI Sample # SW 6200348
LLI Group # 1232085
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/07/2011 15:36

Submitted: 02/08/2011 09:20
Reported: 03/16/2011 23:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS163 SDG#: DX048-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 06:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232085
Reported: 03/16/11 at 11:40 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11047162401B	Sample number(s): 6200343-6200348								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11049002	Sample number(s): 6200343-6200345								
2378-TCDD	0.0139 J	0.0121	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0159 J	0.0123	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0123 U	0.0123	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0154 J	0.0116	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0248 J	0.00980	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.135 J	0.0131	5.00	ng/kg	95		70-140		
OCDD	0.324 J	0.0199	10.0	ng/kg	93		78-144		
2378-TCDF	0.0103 U	0.0103	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0168 J	0.00620	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0476 J	0.00670	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0290 J	0.0168	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0270 J	0.0111	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0398 J	0.00850	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0418 J	0.00710	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.144 J	0.0105	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0364 J	0.00950	5.00	ng/kg	94		78-138		
OCDF	0.153 J	0.0183	10.0	ng/kg	95		63-170		
Batch number: 11060001	Sample number(s): 6200346,6200348								
2378-TCDD	0.00920 U	0.00920	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0125 J	0.00930	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0135 J	0.00970	5.00	ng/kg	106		70-164		
123678-HxCDD	0.0102 J	0.00940	5.00	ng/kg	106		76-134		
123789-HxCDD	0.00946 J	0.00850	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.118 J	0.0122	5.00	ng/kg	106		70-140		
OCDD	0.377 J	0.0224	10.0	ng/kg	106		78-144		
2378-TCDF	0.00810 U	0.00810	1.00	ng/kg	117		75-158		
12378-PeCDF	0.0121 J	0.00470	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0394 J	0.00550	5.00	ng/kg	105		68-160		
123478-HxCDF	0.0267 J	0.0110	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0145 J	0.00680	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0364 J	0.00790	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0191 J	0.00560	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0509 J	0.0114	5.00	ng/kg	104		82-122		
1234789-HpCDF	0.0321 J	0.0184	5.00	ng/kg	107		78-138		
OCDF	0.112 J	0.0230	10.0	ng/kg	106		63-170		
Batch number: 11062001	Sample number(s): 6200347								
2378-TCDD	0.0193 J	0.00990	1.00	ng/kg	85		67-158		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232085
Reported: 03/16/11 at 11:40 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
12378-PeCDD	0.0406	J	0.00910	5.00	ng/kg	85		70-142		
123478-HxCDD	0.0364	J	0.0108	5.00	ng/kg	84		70-164		
123678-HxCDD	0.0400	J	0.0110	5.00	ng/kg	85		76-134		
123789-HxCDD	0.0571	J	0.0100	5.00	ng/kg	83		64-162		
1234678-HpCDD	0.355	J	0.0134	5.00	ng/kg	83		70-140		
OCDD	0.681	J	0.0139	10.0	ng/kg	83		78-144		
2378-TCDF	0.0236	J	0.00870	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0493	J	0.00670	5.00	ng/kg	83		80-134		
23478-PeCDF	0.149	J	0.00670	5.00	ng/kg	84		68-160		
123478-HxCDF	0.169	J	0.0190	5.00	ng/kg	84		72-134		
123678-HxCDF	0.135	J	0.0156	5.00	ng/kg	84		84-130		
123789-HxCDF	0.107	J	0.0163	5.00	ng/kg	83		78-130		
234678-HxCDF	0.271	J	0.0145	5.00	ng/kg	84		70-156		
1234678-HpCDF	0.917	J	0.0104	5.00	ng/kg	83		82-122		
1234789-HpCDF	0.128	J	0.0133	5.00	ng/kg	83		78-138		
OCDF	0.618	J	0.0127	10.0	ng/kg	82		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11047162401B	Sample number(s): 6200343-6200348					BKG: P200286			
28a Moisture Content by 160.3						8.9	8.9	0	20
Batch number: 11060001	Sample number(s): 6200346,6200348					UNSPK: P214547			
2378-TCDD	107	108	67-158	1	25				
12378-PeCDD	104	107	70-142	3	25				
123478-HxCDD	104	106	70-164	2	25				
123678-HxCDD	100	109	76-134	8	25				
123789-HxCDD	103	107	64-162	4	25				
1234678-HpCDD	49*	364*	70-140	89*	25				
OCDD	-68 (2)	1254 (2)	78-144	108*	25				
2378-TCDF	110	113	75-158	2	25				
12378-PeCDF	101	103	80-134	2	25				
23478-PeCDF	102	103	68-160	0	25				
123478-HxCDF	104	107	72-134	3	25				
123678-HxCDF	103	105	84-130	2	25				
123789-HxCDF	104	103	78-130	1	25				
234678-HxCDF	102	106	70-156	3	25				
1234678-HpCDF	101	111	82-122	9	25				
1234789-HpCDF	102	104	78-138	2	25				
OCDF	101	109	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232085
Reported: 03/16/11 at 11:40 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11049002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6200343	70	86	57	72	75	66
6200344	73	87	39	53	79	76
6200345	71	93	45	62	81	73
Blank	82	96	38	54	87	77
OPR	73	86	54	69	76	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6200343	70	56	44	90	79	69
6200344	48	61	46	87	81	58
6200345	59	60	47	89	84	65
Blank	52	67	51	101	90	61
OPR	68	54	41	94	83	68
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6200343	68	69	63	55	76	95
6200344	65	72	63	56	81	96
6200345	69	72	67	58	80	101
Blank	68	79	71	63	86	108
OPR	71	74	66	57	79	97
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11060001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6200346	70	66	42	58	67	58
6200348	73	68	41	59	72	66
Blank	61	50	29	47	53	44
MS	81	77	55	69	79	75
MSD	77	76	47	60	77	76
OPR	71	68	41	60	72	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6200346	55	42	30	88	70	65
6200348	55	48	34	88	72	68
Blank	47	33	23	76	62	57
MS	64	62	49	89	80	79
MSD	50	60	45	90	78	71
OPR	62	54	43	83	75	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232085
Reported: 03/16/11 at 11:40 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6200346	69	72	59	46	68	74
6200348	73	74	63	48	71	78
Blank	63	65	55	42	51	63
MS	81	82	72	58	79	83
MSD	77	78	66	52	78	79
OPR	77	79	70	59	65	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11062001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6200347	71	72	40	54	74	75
Blank	66	68	56	65	69	69
OPR	68	72	51	65	71	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6200347	58	69	67	79	79	70
Blank	75	66	65	79	73	72
OPR	74	62	58	86	76	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6200347	73	76	77	77	67	73
Blank	73	75	79	78	63	72
OPR	75	76	77	76	66	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1282085 6200343-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-048-SA5A-SB-3.0-4.0	2.07.2011	1228	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-048-SA5A-SB-3.5	2.07.2011	1222	SOIL	NONE	4-Encores									X	X												
SL-049-SA5A-SB-2.0-3.0	2.07.2011	1519	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-049-SA5A-SB-2.5	2.07.2011	1515	SOIL	NONE	4-Encores									X	X												
SL-160-SA5B-SB-4.0-5.0	2.07.2011	1023	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-160-SA5B-SB-4.5	2.07.2011	1020	SOIL	NONE	4-Encores									X	X												
SL-161-SA5B-SB-4.0-5.0	2.07.2011	1433	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-161-SA5B-SB-4.5	2.07.2011	1430	SOIL	NONE	4-Encores									X	X												
SL-162-SA5B-SB-4.0-5.0	2.07.2011	1154	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-162-SA5B-SB-4.5	2.07.2011	1149	SOIL	NONE	4-Encores									X	X												
SL-163-SA5B-SB-3.5-4.5	2.07.2011	1536	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-163-SA5B-SB-4.0	2.07.2011	1533	SOIL	NONE	4-Encores									X	X												
TB-020711	2.07.2011	0800	WATER	HCl	3-40 mL VOA VIALS									X	X												TRIP BLANK

Relinquished by: (Signature)

Date/Time: 02/07/2011 / 17:00

Received for Laboratory by: (Signature) Gary Hecht LLI 2/8/11 920

Received by: (Signature)

Date/Time

Airbill No.(s): 8695 1432 2902

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/09/2011
Group Number: 1232303
SDG: DE078
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-168-SA5B-SB-4.0-5.0 Soil	6201155
SL-164-SA5B-SB-4.0-5.0 Soil	6201156
SL-313-SA5B-SB-4.0-5.0 Soil	6201157
SL-313-SA5B-SB-9.0-10.0 Soil	6201158
SL-314-SA5B-SB-4.0-5.0 Soil	6201159
SL-315-SA5B-SS-0.0-0.5 Soil	6201160
SL-316-SA5B-SS-0.0-0.5 Soil	6201161
SL-327-SA5B-SS-0.0-0.5 Soil	6201162
SL-328-SA5B-SS-0.0-0.5 Soil	6201163
TB-020811 Water	6201164

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-168-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL168 SDG#: DE078-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.8		0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.88
06192	Methylene Chloride	75-09-2	0.65	J	0.24	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-168-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL168 SDG#: DE078-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.88
06192	Toluene	108-88-3	0.09	J	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.72
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.2		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-168-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL168 SDG#: DE078-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.7	20		1
10138	Chrysene	218-01-9	0.52	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: SL-168-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL168 SDG#: DE078-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	20	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.5	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 8.3 ug/kg di-n-octylphthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.44
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1

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Sample Description: SL-168-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL168 SDG#: DE078-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.60	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.52	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.78	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.7		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	22	U	22	22		1
08283	Ethylene glycol	107-21-1	14	U	14	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various

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Sample Description: SL-168-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL168 SDG#: DE078-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limits attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,000		5.62	22.3		1
07914	Boron	7440-42-8	1.13	J	0.994	5.59		1
01650	Calcium	7440-70-2	2,530		6.85	22.3		1
01654	Iron	7439-89-6	21,700		5.26	22.3		1
01656	Lithium	7439-93-2	23.9		0.25	2.2		1
01657	Magnesium	7439-95-4	3,950		2.84	11.2		1
06958	Manganese	7439-96-5	287		0.0872	0.559		1
10145	Phosphorus	7723-14-0	187		0.626	11.2		1
01662	Potassium	7440-09-7	2,260		20.1	55.9		1
01667	Sodium	7440-23-5	201		41.7	112		1
07968	Strontium	7440-24-6	23.9		0.0693	0.559		1
06969	Tin	7440-31-5	2.63	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,180		0.425	1.12		1
10146	Zirconium	7440-67-7	2.52	J	0.939	5.59		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.129	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.24		0.0885	0.443		2
06126	Barium	7440-39-3	90.1		0.119	0.443		2
06127	Beryllium	7440-41-7	0.684		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.147		0.0443	0.111		2
06131	Chromium	7440-47-3	21.3		0.133	0.443		2
06132	Cobalt	7440-48-4	5.73		0.0221	0.111		2
06133	Copper	7440-50-8	7.94		0.0730	0.443		2
06135	Lead	7439-92-1	6.76		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.480		0.0553	0.111		2
06139	Nickel	7440-02-0	12.8		0.111	0.443		2
06141	Selenium	7782-49-2	0.151	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.642		0.0133	0.111		2
06145	Thallium	7440-28-0	0.254		0.0332	0.111		2
06148	Vanadium	7440-62-2	39.9		0.0243	0.111		2
06149	Zinc	7440-66-6	45.9		0.620	3.32		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0043	J	0.0031	0.108		1

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Sample Description: **SL-168-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL168 SDG#: DE078-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.9		0.89	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	521		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-168-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011	16:10	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011	10:04	Jason M Long	23.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011	16:26	Lois E Hiltz	n.a.

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Sample Description: **SL-168-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
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SL168 SDG#: DE078-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:49	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104023665	02/09/2011 16:49	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104023665	02/09/2011 16:23	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11041SLB026	02/11/2011 22:33	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 07:55	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/13/2011 18:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11041SLB026	02/10/2011 13:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34B	02/10/2011 15:40	Elizabeth J Marin	21.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:22	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 05:07	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 19:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 21:32	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 02:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110400029A	02/09/2011 19:12	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 15:44	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/16/2011 19:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110400029A	02/09/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-168-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201155
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL168 SDG#: DE078-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:08	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:02	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:49	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:02	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:49	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:02	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:02	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 15:19	James S Mathiot	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11052621201A	02/22/2011 15:19	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 16:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11048243201A	02/18/2011 14:23	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 17:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-164-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201156
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL164 SDG#: DE078-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.04
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.04
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.04
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.04
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.04
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.04
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		1.04
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.04
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		1.04
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.04
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.04
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.04
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.04
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.04
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	8.9		1.04
06192	Methylene Chloride	75-09-2	0.84	J	0.27	4.5		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.04

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201156
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL164 SDG#: DE078-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.04
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		1.04
06192	Toluene	108-88-3	0.13	J	0.09	4.5		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.04
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.04
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.04
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25.88
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	360		18	180		1
04688	Benzo(a)pyrene	50-32-8	590		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	610		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	280		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	340		18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	660		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	90	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201156
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL164 SDG#: DE078-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	360		1
04688	Fluoranthene	206-44-0	190		18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	320		18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	24	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	320		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.44	J	0.36	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	9.3	J	6.5	19		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201156
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL164 SDG#: DE078-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	16	J	6.5	19		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.86	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	7.1	J	6.5	19		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	19		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	13		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.33	21.2		1
07914	Boron	7440-42-8	0.942	U	0.942	5.29		1
01650	Calcium	7440-70-2	2,040		6.49	21.2		1
01654	Iron	7439-89-6	19,200		4.99	21.2		1
01656	Lithium	7439-93-2	23.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,800		2.69	10.6		1
06958	Manganese	7439-96-5	313		0.0826	0.529		1
10145	Phosphorus	7723-14-0	347		0.593	10.6		1
01662	Potassium	7440-09-7	2,870		19.1	52.9		1
01667	Sodium	7440-23-5	78.1	J	39.5	106		1
07968	Strontium	7440-24-6	15.1		0.0656	0.529		1
06969	Tin	7440-31-5	2.67	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,070		0.402	1.06		1
10146	Zirconium	7440-67-7	2.20	J	0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0952	J	0.0623	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.80		0.0831	0.415		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201156
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL164 SDG#: DE078-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	70.7		0.112	0.415		2
06127	Beryllium	7440-41-7	0.417		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.379		0.0415	0.104		2
06131	Chromium	7440-47-3	18.9		0.125	0.415		2
06132	Cobalt	7440-48-4	5.12		0.0208	0.104		2
06133	Copper	7440-50-8	8.64		0.0685	0.415		2
06135	Lead	7439-92-1	9.18		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.546		0.0519	0.104		2
06139	Nickel	7440-02-0	11.2		0.104	0.415		2
06141	Selenium	7782-49-2	0.134	J	0.0415	0.415		2
06142	Silver	7440-22-4	5.94		0.0125	0.104		2
06145	Thallium	7440-28-0	0.210		0.0312	0.104		2
06148	Vanadium	7440-62-2	27.7		0.0228	0.104		2
06149	Zinc	7440-66-6	62.6		0.581	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0256	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	532		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-164-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201156
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL164 SDG#: DE078-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-164-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 16:32	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 10:25	Jason M Long	25.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:49	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104023665	02/09/2011 16:49	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104023665	02/09/2011 16:27	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 09:41	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/13/2011 16:42	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 21:50	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:19	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:04	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:53	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-164-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201156
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL164 SDG#: DE078-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:04	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:53	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:04	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:04	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 17:04	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:53	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 15:34	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 17:21	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 14:41	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-313-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.4		0.95
06192	Benzene	71-43-2	0.20	J	0.11	4.2		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	0.30	J	0.06	4.2		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.95
06192	Isopropylbenzene	98-82-8	0.08	J	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.95
06192	Methylene Chloride	75-09-2	0.75	J	0.25	4.2		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-313-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	5.7		0.11	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.95
06192	Toluene	108-88-3	0.13	J	0.08	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	0.26	J	0.18	4.2		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.95
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.2
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	92.5	U	92.5	185		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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Sample Description: SL-313-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.7	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	5.0		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.1		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.0		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	J	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	30		6.7	20		1
10138	Chrysene	218-01-9	8.3		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	J	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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Sample Description: **SL-313-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	100		6.7	20		1
10138	Fluoranthene	206-44-0	14		0.74	1.8		1
10138	Fluorene	86-73-7	0.84	J	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	8.4	J	6.7	20		1
10138	Phenanthrene	85-01-8	8.7		0.74	1.8		1
10138	Pyrene	129-00-0	13		0.74	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 8.3 ug/kg di-n-octylphthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1

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Sample Description: SL-313-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	3.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	7.7		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	16	U	16	16		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

The sample was injected numerous times. Each time the responses for various

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Sample Description: SL-313-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,900		5.47	21.8		1
07914	Boron	7440-42-8	3.80	J	0.968	5.44		1
01650	Calcium	7440-70-2	4,900		6.67	21.8		1
01654	Iron	7439-89-6	20,800		5.13	21.8		1
01656	Lithium	7439-93-2	12.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,580		2.76	10.9		1
06958	Manganese	7439-96-5	228		0.0849	0.544		1
10145	Phosphorus	7723-14-0	742		0.609	10.9		1
01662	Potassium	7440-09-7	2,700		19.6	54.4		1
01667	Sodium	7440-23-5	271		40.6	109		1
07968	Strontium	7440-24-6	41.0		0.0675	0.544		1
06969	Tin	7440-31-5	2.06	J	1.09	10.9		1
06970	Titanium	7440-32-6	920		0.413	1.09		1
10146	Zirconium	7440-67-7	2.49	J	0.914	5.44		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.237		0.0653	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.49		0.0870	0.435		2
06126	Barium	7440-39-3	99.6		0.118	0.435		2
06127	Beryllium	7440-41-7	0.374		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.303		0.0435	0.109		2
06131	Chromium	7440-47-3	22.1		0.131	0.435		2
06132	Cobalt	7440-48-4	5.65		0.0218	0.109		2
06133	Copper	7440-50-8	14.9		0.0718	0.435		2
06135	Lead	7439-92-1	3.99		0.0113	0.218		2
06138	Molybdenum	7439-98-7	1.63		0.0544	0.109		2
06139	Nickel	7440-02-0	12.0		0.109	0.435		2
06141	Selenium	7782-49-2	1.42		0.0435	0.435		2
06142	Silver	7440-22-4	0.0237	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.133		0.0326	0.109		2
06148	Vanadium	7440-62-2	44.6		0.0239	0.109		2
06149	Zinc	7440-66-6	48.0		0.609	3.26		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0197	J	0.0032	0.110		1

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Sample Description: **SL-313-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	415		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-313-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 16:55	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 10:45	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:35	Lois E Hiltz	n.a.

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Sample Description: SL-313-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:49	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104023665	02/09/2011 16:49	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104023665	02/09/2011 16:33	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11041SLB026	02/11/2011 23:23	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 10:08	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/13/2011 18:53	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11041SLB026	02/10/2011 13:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34B	02/10/2011 16:16	Elizabeth J Marin	21.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:32	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 08:39	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 20:23	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 22:09	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 04:11	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110400029A	02/09/2011 20:11	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 16:02	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/16/2011 21:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110400029A	02/09/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:23	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1

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Sample Description: SL-313-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201157
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3134 SDG#: DE078-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:07	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:56	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:07	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:56	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:07	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:07	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:56	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 15:48	James S Mathiot	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11052621201A	02/22/2011 15:48	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 17:45	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11048243201A	02/18/2011 14:48	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 17:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101A	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401A	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3139 SDG#: DE078-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	17		7.4	8.9		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.99
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.99
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.99
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.99
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.99
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.99
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		0.99
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		0.99
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		0.99
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.99
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.99
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.99
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.99
06192	Ethylbenzene	100-41-4	0.11	J	0.07	4.4		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.99
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.99
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.99
06192	Methylene Chloride	75-09-2	2.3	J	0.27	4.4		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.99

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Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3139 SDG#: DE078-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.99
06192	Toluene	108-88-3	0.12	J	0.09	4.4		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.99
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.99
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.99
06192	m+p-Xylene	179601-23-1	0.34	J	0.19	4.4		0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		25.46
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	93.1	U	93.1	186		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
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S3139 SDG#: DE078-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.3		0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	1.8	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	6.3		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	14		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	34		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.7		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	8.3	J	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	9.7	J	6.7	20		1
10138	Chrysene	218-01-9	21		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3139 SDG#: DE078-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61		6.7	20		1
10138	Fluoranthene	206-44-0	9.6		0.74	1.9		1
10138	Fluorene	86-73-7	2.3		0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.74	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	23		6.7	20		1
10138	Phenanthrene	85-01-8	9.0		0.74	1.9		1
10138	Pyrene	129-00-0	19		0.74	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 8.3 ug/kg
di-n-octylphthalate 6.3 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1

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Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3139 SDG#: DE078-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	5,100		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	5.6		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.9	U	8.9	27		20
10199	EFH (C15-C20)	n.a.	8.9	U	8.9	27		20
10199	EFH (C21-C30)	n.a.	91		8.9	27		20
10199	EFH (C30 - C40)	n.a.	330		8.9	27		20
10199	EFH (C8-C11)	n.a.	8.9	U	8.9	27		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	12	U	12	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various

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Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3139 SDG#: DE078-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.51	21.9		1
07914	Boron	7440-42-8	1.82	J	0.975	5.48		1
01650	Calcium	7440-70-2	6,330		6.71	21.9		1
01654	Iron	7439-89-6	20,400		5.16	21.9		1
01656	Lithium	7439-93-2	21.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,090		2.78	11.0		1
06958	Manganese	7439-96-5	252		0.0854	0.548		1
10145	Phosphorus	7723-14-0	742		0.613	11.0		1
01662	Potassium	7440-09-7	2,860		19.7	54.8		1
01667	Sodium	7440-23-5	485		40.9	110		1
07968	Strontium	7440-24-6	23.8		0.0679	0.548		1
06969	Tin	7440-31-5	2.66	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,040		0.416	1.10		1
10146	Zirconium	7440-67-7	1.94	J	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.81		0.0885	0.443		2
06126	Barium	7440-39-3	82.0		0.119	0.443		2
06127	Beryllium	7440-41-7	0.444		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.137		0.0443	0.111		2
06131	Chromium	7440-47-3	15.5		0.133	0.443		2
06132	Cobalt	7440-48-4	5.14		0.0221	0.111		2
06133	Copper	7440-50-8	7.81		0.0730	0.443		2
06135	Lead	7439-92-1	5.15		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.612		0.0553	0.111		2
06139	Nickel	7440-02-0	8.85		0.111	0.443		2
06141	Selenium	7782-49-2	0.0981	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0255	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.236		0.0332	0.111		2
06148	Vanadium	7440-62-2	30.4		0.0243	0.111		2
06149	Zinc	7440-66-6	59.9		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0091	J	0.0031	0.109		1

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SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3139 SDG#: DE078-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.99	J	0.89	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	321		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-313-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011	17:17	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011	11:05	Jason M Long	25.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011	16:41	Lois E Hiltz	n.a.

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Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
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Project Name: SSFL Area IV Collocated Soil Sampling

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S3139 SDG#: DE078-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:49	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104023665	02/09/2011 16:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104023665	02/09/2011 16:38	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11041SLB026	02/11/2011 23:40	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 10:34	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/13/2011 19:26	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11041SLB026	02/10/2011 13:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34B	02/10/2011 16:53	Elizabeth J Marin	27.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:37	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 09:21	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 20:42	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 22:27	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 16:17	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	110400029A	02/09/2011 20:25	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 16:19	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/17/2011 01:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110400029A	02/09/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:27	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201158
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3139 SDG#: DE078-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:09	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 11:59	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:09	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 11:59	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:09	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:09	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 11:59	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201A	02/22/2011 16:03	James S Mathiot	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11052621201A	02/22/2011 16:03	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 18:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11048243201A	02/18/2011 15:00	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 17:53	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201A	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101B	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401B	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	0.09	J	0.06	4.2		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.95
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.95
06192	Methylene Chloride	75-09-2	4.5		0.25	4.2		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.95

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Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.95
06192	Toluene	108-88-3	0.11	J	0.08	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	0.30	J	0.18	4.2		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.95
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	92.3	U	92.3	185		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U	740	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	130	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	28	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.4	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	7.7		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	7.4		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	16		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.2		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	6.6		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	8.1	J	6.6	20		1
10138	Chrysene	218-01-9	11		0.37	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	15		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.8	J	6.6	20		1
10138	Phenanthrene	85-01-8	2.3		0.74	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-octylphthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1

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Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	2.8		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.9	U	8.9	27		20
10199	EFH (C15-C20)	n.a.	8.9	U	8.9	27		20
10199	EFH (C21-C30)	n.a.	86		8.9	27		20
10199	EFH (C30 - C40)	n.a.	270		8.9	27		20
10199	EFH (C8-C11)	n.a.	8.9	U	8.9	27		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	11	U	11	14		1

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Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.46	21.7		1
07914	Boron	7440-42-8	1.92	J	0.966	5.43		1
01650	Calcium	7440-70-2	7,780		6.66	21.7		1
01654	Iron	7439-89-6	19,400		5.11	21.7		1
01656	Lithium	7439-93-2	22.1		0.24	2.2		1
01657	Magnesium	7439-95-4	3,900		2.76	10.9		1
06958	Manganese	7439-96-5	248		0.0847	0.543		1
10145	Phosphorus	7723-14-0	375		0.608	10.9		1
01662	Potassium	7440-09-7	2,890		19.5	54.3		1
01667	Sodium	7440-23-5	783		40.5	109		1
07968	Strontium	7440-24-6	22.7		0.0673	0.543		1
06969	Tin	7440-31-5	2.48	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,040		0.413	1.09		1
10146	Zirconium	7440-67-7	2.02	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0833	J	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.25		0.0852	0.426		2
06126	Barium	7440-39-3	74.9		0.115	0.426		2
06127	Beryllium	7440-41-7	0.394		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.117		0.0426	0.106		2
06131	Chromium	7440-47-3	13.1		0.128	0.426		2
06132	Cobalt	7440-48-4	4.40		0.0213	0.106		2
06133	Copper	7440-50-8	8.51		0.0703	0.426		2
06135	Lead	7439-92-1	4.69		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.498		0.0532	0.106		2
06139	Nickel	7440-02-0	8.00		0.106	0.426		2
06141	Selenium	7782-49-2	0.0838	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0136	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.227		0.0319	0.106		2

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Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	26.4		0.0234	0.106		2
06149	Zinc	7440-66-6	66.6		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0060	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.0		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	348		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.19		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-314-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 17:40	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 11:24	Jason M Long	20.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104023665	02/09/2011 16:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104023665	02/09/2011 16:43	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11041SLB026	02/11/2011 23:56	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 11:01	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/13/2011 19:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11041SLB026	02/10/2011 13:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34B	02/10/2011 17:30	Elizabeth J Marin	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104023665	02/09/2011 16:43	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 10:04	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 20:52	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 10:55	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 22:46	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 16:42	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	110400029A	02/09/2011 20:40	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 16:37	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/17/2011 02:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110400029A	02/09/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1

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Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

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14420 Albemarle Point Place
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SL314 SDG#: DE078-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:11	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 12:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:11	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 12:02	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:11	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:11	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 12:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 16:18	James S Mathiot	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11052621201B	02/22/2011 16:18	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 18:57	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 15:19	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 17:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101B	02/10/2011 13:30	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-314-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201159
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL314 SDG#: DE078-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401B	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-315-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	88.3	U	88.3	177		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.53	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.0		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.4		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	7.9	J	6.4	19		1
10138	Chrysene	218-01-9	3.0		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.84	J	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	70		6.4	19		1
10138	Fluoranthene	206-44-0	4.9		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	J	6.4	19		1
10138	Phenanthrene	85-01-8	3.1		0.71	1.8		1
10138	Pyrene	129-00-0	3.9		0.71	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 8.3 ug/kg di-n-octylphthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	260		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	1.2	J	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.19	J	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	8.5	U	8.5	25		20

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	8.5	U	8.5	25		20
10199	EFH (C21-C30)	n.a.	59		8.5	25		20
10199	EFH (C30 - C40)	n.a.	250		8.5	25		20
10199	EFH (C8-C11)	n.a.	8.5	U	8.5	25		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	12	U	12	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.
Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.33	21.2		1
07914	Boron	7440-42-8	2.50	J	0.943	5.30		1
01650	Calcium	7440-70-2	8,280		6.49	21.2		1
01654	Iron	7439-89-6	18,100		4.99	21.2		1
01656	Lithium	7439-93-2	16.2		0.23	2.1		1
01657	Magnesium	7439-95-4	4,200		2.69	10.6		1
06958	Manganese	7439-96-5	222		0.0826	0.530		1
10145	Phosphorus	7723-14-0	487		0.593	10.6		1
01662	Potassium	7440-09-7	2,630		19.1	53.0		1
01667	Sodium	7440-23-5	273		39.5	106		1
07968	Strontium	7440-24-6	33.1		0.0657	0.530		1
06969	Tin	7440-31-5	2.29	J	1.06	10.6		1
06970	Titanium	7440-32-6	977		0.403	1.06		1
10146	Zirconium	7440-67-7	2.33	J	0.890	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.277		0.0617	0.206		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-315-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.73		0.0823	0.411		2
06126	Barium	7440-39-3	79.0		0.111	0.411		2
06127	Beryllium	7440-41-7	0.368		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.199		0.0411	0.103		2
06131	Chromium	7440-47-3	16.0		0.123	0.411		2
06132	Cobalt	7440-48-4	4.69		0.0206	0.103		2
06133	Copper	7440-50-8	8.43		0.0679	0.411		2
06135	Lead	7439-92-1	4.92		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.895		0.0514	0.103		2
06139	Nickel	7440-02-0	9.64		0.103	0.411		2
06141	Selenium	7782-49-2	0.273	J	0.0411	0.411		2
06142	Silver	7440-22-4	0.0447	J	0.0123	0.103		2
06145	Thallium	7440-28-0	0.192		0.0309	0.103		2
06148	Vanadium	7440-62-2	31.6		0.0226	0.103		2
06149	Zinc	7440-66-6	84.1		0.576	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0126	J	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.85	U	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	365		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.6		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-315-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	11041SLB026	02/12/2011 00:13	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 11:27	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 07:34	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11041SLB026	02/10/2011 13:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 10:46	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 21:01	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 15:53	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:01	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 06:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 23:04	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 17:07	Heather E Williams	20
10501	25a Alcohols by 8015B	SW-846 8015B	1	110400029A	02/09/2011 21:09	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 17:30	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/17/2011 03:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110400029A	02/09/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:14	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 12:05	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:14	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 12:05	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:14	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:14	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 12:05	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 17:02	James S Mathiot	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11052621201B	02/22/2011 17:02	James S Mathiot	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-315-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201160
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL315 SDG#: DE078-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 19:21	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 15:31	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 17:58	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101B	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401B	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-316-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201161
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL316 SDG#: DE078-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	87.4	U	87.4	175		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	59	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-316-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201161
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL316 SDG#: DE078-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.97	J	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.3	19		1
10138	Chrysene	218-01-9	1.4	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	1.3	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.5	J	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	1.5	J	0.70	1.7		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-octylphthalate 6.3 ug/kg These blank values were not subtracted from the analytical results.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1

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Sample Description: **SL-316-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201161
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL316 SDG#: DE078-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	0.91	U	0.91	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	260		80	260		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4-DB.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	630	U	630	1,600		1

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SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201161
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL316 SDG#: DE078-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	1.5	J	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.12	J	0.069	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.93	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.63	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	10		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	520		1

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Sample Description: SL-316-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201161
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL316 SDG#: DE078-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	10	U	10	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.12	20.4		1
07914	Boron	7440-42-8	1.91	J	0.906	5.09		1
01650	Calcium	7440-70-2	4,760		6.24	20.4		1
01654	Iron	7439-89-6	18,300		4.79	20.4		1
01656	Lithium	7439-93-2	16.0		0.22	2.0		1
01657	Magnesium	7439-95-4	3,760		2.58	10.2		1
06958	Manganese	7439-96-5	226		0.0794	0.509		1
10145	Phosphorus	7723-14-0	432		0.570	10.2		1
01662	Potassium	7440-09-7	2,470		18.3	50.9		1
01667	Sodium	7440-23-5	157		38.0	102		1
07968	Strontium	7440-24-6	29.3		0.0631	0.509		1
06969	Tin	7440-31-5	2.39	J	1.02	10.2		1
06970	Titanium	7440-32-6	925		0.387	1.02		1
10146	Zirconium	7440-67-7	2.38	J	0.855	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0605	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.52		0.0806	0.403		2
06126	Barium	7440-39-3	82.4		0.109	0.403		2
06127	Beryllium	7440-41-7	0.352		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.204		0.0403	0.101		2
06131	Chromium	7440-47-3	16.6		0.121	0.403		2
06132	Cobalt	7440-48-4	4.80		0.0202	0.101		2
06133	Copper	7440-50-8	8.57		0.0665	0.403		2

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Sample Description: SL-316-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201161
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL316 SDG#: DE078-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	4.14		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.762		0.0504	0.101		2
06139	Nickel	7440-02-0	9.20		0.101	0.403		2
06141	Selenium	7782-49-2	0.165	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.0245	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.167		0.0302	0.101		2
06148	Vanadium	7440-62-2	32.2		0.0222	0.101		2
06149	Zinc	7440-66-6	50.9		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0056	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.84	U	0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	365		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-316-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201161
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SL316 SDG#: DE078-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	11041SLB026	02/12/2011 00:46	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 11:54	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 08:07	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11041SLB026	02/10/2011 13:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 11:28	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 21:11	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 14:30	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 07:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 23:23	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 05:01	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110400029A	02/09/2011 21:24	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 17:47	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/16/2011 23:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110400029A	02/09/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:39	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-316-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201161
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL316 SDG#: DE078-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:16	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 12:08	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 17:16	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:16	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 12:08	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:16	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:16	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 12:08	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 11:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202A	02/23/2011 11:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 19:45	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 15:44	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 17:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11041182101B	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401B	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-327-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201162
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL327 SDG#: DE078-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	38	J	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-327-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201162
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL327 SDG#: DE078-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.97	J	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	8.0	J	6.2	19		1
10138	Chrysene	218-01-9	1.4	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	1.6	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.7	J	6.2	19		1
10138	Phenanthrene	85-01-8	1.6	J	0.69	1.7		1
10138	Pyrene	129-00-0	1.8		0.69	1.7		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-octylphthalate 6.3 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	79	U	79	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-327-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201162
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL327 SDG#: DE078-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
extract. Similar results were obtained in both extracts.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35		1
01363	p,p-DDT	50-29-3	0.14	U	0.14	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35		1
01363	Endrin	72-20-8	0.069	U	0.069	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.35		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.049	U	0.049	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide represent the lowest reporting limits attainable. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.1	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	2.6		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,400		5.18	20.6		1
07914	Boron	7440-42-8	1.33	J	0.917	5.15		1
01650	Calcium	7440-70-2	5,730		6.32	20.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-327-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201162
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL327 SDG#: DE078-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	19,500		4.85	20.6		1
01656	Lithium	7439-93-2	15.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,980		2.62	10.3		1
06958	Manganese	7439-96-5	225		0.0804	0.515		1
10145	Phosphorus	7723-14-0	527		0.577	10.3		1
01662	Potassium	7440-09-7	2,650		18.5	51.5		1
01667	Sodium	7440-23-5	224		38.4	103		1
07968	Strontium	7440-24-6	26.2		0.0639	0.515		1
06969	Tin	7440-31-5	2.17	J	1.03	10.3		1
06970	Titanium	7440-32-6	993		0.392	1.03		1
10146	Zirconium	7440-67-7	1.82	J	0.865	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0692	J	0.0600	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.75		0.0800	0.400		2
06126	Barium	7440-39-3	81.5		0.108	0.400		2
06127	Beryllium	7440-41-7	0.317		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.157		0.0400	0.100		2
06131	Chromium	7440-47-3	13.4		0.120	0.400		2
06132	Cobalt	7440-48-4	5.55		0.0200	0.100		2
06133	Copper	7440-50-8	9.54		0.0660	0.400		2
06135	Lead	7439-92-1	4.30		0.0104	0.200		2
06138	Molybdenum	7439-98-7	0.410		0.0500	0.100		2
06139	Nickel	7440-02-0	7.56		0.100	0.400		2
06141	Selenium	7782-49-2	0.115	J	0.0400	0.400		2
06142	Silver	7440-22-4	0.0249	J	0.0120	0.100		2
06145	Thallium	7440-28-0	0.200		0.0300	0.100		2
06148	Vanadium	7440-62-2	33.9		0.0220	0.100		2
06149	Zinc	7440-66-6	61.2		0.560	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	393		10.0	10.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-327-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201162
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL327 SDG#: DE078-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.95	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	3.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 12:21	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 08:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 16:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 07:31	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	03/02/2011 23:41	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1

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Sample Description: **SL-327-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201162
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL327 SDG#: DE078-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/11/2011 22:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:23	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 12:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:23	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 12:17	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:23	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:23	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 12:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 17:31	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 20:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11048243201A	02/18/2011 15:50	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11041182101B	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401B	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-328-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201163
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL328 SDG#: DE078-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	690	U	690	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

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Sample Description: SL-328-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201163
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL328 SDG#: DE078-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.83	J	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.77	J	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.7		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.86	J	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	7.8	J	6.2	19		1
10138	Chrysene	218-01-9	1.1	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	1.1	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.9	J	6.2	19		1
10138	Phenanthrene	85-01-8	0.75	J	0.69	1.7		1
10138	Pyrene	129-00-0	1.2	J	0.69	1.7		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-octylphthalate 6.3 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	0.95	U	0.95	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	79	U	79	260		1
10401	MCPP (Mecoprop)	93-65-2	380		78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these

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Sample Description: **SL-328-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201163
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL328 SDG#: DE078-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35		1
01363	p,p-DDE	72-55-9	0.18	U	0.18	0.35		1
01363	p,p-DDT	50-29-3	0.16	U	0.16	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35		1
01363	Endrin	72-20-8	0.069	U	0.069	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.35		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35		1
01363	Toxaphene	8001-35-2	4.2	U	4.2	6.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.90	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.18	20.6		1
07914	Boron	7440-42-8	1.44	J	0.916	5.15		1
01650	Calcium	7440-70-2	6,080		6.31	20.6		1
01654	Iron	7439-89-6	19,000		4.85	20.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-328-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201163
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL328 SDG#: DE078-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	17.2		0.23	2.1		1
01657	Magnesium	7439-95-4	4,100		2.61	10.3		1
06958	Manganese	7439-96-5	278		0.0803	0.515		1
10145	Phosphorus	7723-14-0	441		0.576	10.3		1
01662	Potassium	7440-09-7	2,730		18.5	51.5		1
01667	Sodium	7440-23-5	241		38.4	103		1
07968	Strontium	7440-24-6	34.6		0.0638	0.515		1
06969	Tin	7440-31-5	2.29	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,000		0.391	1.03		1
10146	Zirconium	7440-67-7	2.48	J	0.865	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0606	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.54		0.0807	0.404		2
06126	Barium	7440-39-3	74.7		0.109	0.404		2
06127	Beryllium	7440-41-7	0.350		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.144		0.0404	0.101		2
06131	Chromium	7440-47-3	16.0		0.121	0.404		2
06132	Cobalt	7440-48-4	4.79		0.0202	0.101		2
06133	Copper	7440-50-8	7.46		0.0666	0.404		2
06135	Lead	7439-92-1	4.24		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.741		0.0505	0.101		2
06139	Nickel	7440-02-0	8.48		0.101	0.404		2
06141	Selenium	7782-49-2	0.127	J	0.0404	0.404		2
06142	Silver	7440-22-4	0.0296	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.188		0.0303	0.101		2
06148	Vanadium	7440-62-2	30.3		0.0222	0.101		2
06149	Zinc	7440-66-6	48.2		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	408		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-328-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201163
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL328 SDG#: DE078-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	3.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11041SLD026	02/11/2011 12:48	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 09:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11041SLD026	02/10/2011 18:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 16:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 08:00	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480040A	02/24/2011 10:18	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480040A	02/18/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-328-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201163
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL328 SDG#: DE078-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110415708002	02/14/2011 11:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110411026002A	02/22/2011 17:26	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
06126	Barium	SW-846 6020	1	110411026002D	02/22/2011 12:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
06131	Chromium	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
06133	Copper	SW-846 6020	1	110411026002A	02/22/2011 17:26	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110411026002C	02/22/2011 12:20	David K Beck	2
06139	Nickel	SW-846 6020	1	110411026002A	02/22/2011 17:26	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110411026002B	02/22/2011 17:26	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
06145	Thallium	SW-846 6020	1	110411026002A	02/22/2011 17:26	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
06149	Zinc	SW-846 6020	1	110411026002A	02/22/2011 12:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	110415711002	02/11/2011 15:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110415708002	02/10/2011 20:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110411026002	02/10/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110415711002	02/10/2011 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 12:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201A	02/22/2011 20:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 16:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201A	02/22/2011 11:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11041182101B	02/10/2011 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11041039401B	02/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-020811 Water
SSFL Area IV Collocated Soil Sampling
TB-020811

LLI Sample # WW 6201164
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 08:00

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB208 SDG#: DE078-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-020811 Water
SSFL Area IV Collocated Soil Sampling
TB-020811

LLI Sample # WW 6201164
LLI Group # 1232303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 08:00

Submitted: 02/09/2011 09:10
Reported: 03/15/2011 13:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB208 SDG#: DE078-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110451AA	02/14/2011	10:27	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110451AA	02/14/2011	10:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110451AA	02/14/2011	10:27	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110451AA	02/14/2011	10:51	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11042B20A	02/11/2011	17:48	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11042B20A	02/11/2011	17:48	Tyler O Griffin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110421AA	Sample number(s): 6201155-6201159									
Acetone	9.5		6.7	8.0	ug/kg	139	136	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	101	98	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	83	84	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	105	102	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96	92	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	90	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	86	84	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	114	110	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	96	95	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	90	88	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	83	80	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	98	69-122	7	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	96	80-120	4	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	82	79	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	113	113	43-146	0	30
Chloroform	0.23	J	0.12	4.0	ug/kg	104	100	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	78	77	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	86	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	90	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	57	50	22-131	15	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91	93	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	100	95	77-120	4	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	95	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	99	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93	92	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88	87	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	91	89	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	62	58	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	97	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	107	103	71-129	4	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	95	73-123	6	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	96	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	100	95	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97	95	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	96	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	97	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100	95	77-120	5	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	84	83	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	87	77-120	0	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	95	93	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	103	96	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	81	75*	78-120	8	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	84	81	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	82	82	45-155	0	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	92	89	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	92	91	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93	92	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	73	72	61-134	0	30
Methylene Chloride	0.54	J	0.24	4.0	ug/kg	97	93	76-124	4	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	96	95	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	94	76-120	4	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100	98	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92	92	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	95	77-120	6	30
Toluene	0.11	J	0.08	4.0	ug/kg	99	96	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	80	81	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	73	73	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	97	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	98	80-120	4	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	95	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97	90	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96	96	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93	93	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93	92	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	80	77	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	98	80-120	4	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	89	87	80-120	2	30
Batch number: E110451AA	Sample number(s): 6201164									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	103	80-123	1	30
Batch number: E110461AA	Sample number(s): 6201155-6201159									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	117	70-130	8	30
Batch number: Y110451AA	Sample number(s): 6201164									
Acetone	6	U	6.	20	ug/l	126	124	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	99	100	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	98	103	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	102	108	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromoform	1	U	1.	5	ug/l	88	94	61-120	7	30
Bromomethane	1	U	1.	5	ug/l	86	81	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	123	126	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	100	97	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	102	99	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	97	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	101	97	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	79	71	49-129	11	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	114	127	56-129	11	30
Chloroform	0.8	U	0.8	5	ug/l	101	101	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	91	84	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	100	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	60	60	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	99	108	56-126	9	30
Dibromochloromethane	1	U	1.	5	ug/l	93	101	80-120	8	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	105	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	98	105	80-120	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	97	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	99	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	76	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	101	102	79-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	111	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	98	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	102	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	101	109	80-120	7	30
2,2-Dichloropropane	1	U	1.	5	ug/l	100	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	100	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	100	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	97	104	79-120	7	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	99	79-120	0	30
Freon 113	2	U	2.	10	ug/l	108	99	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	90	95	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	87	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	115	120	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	99	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	98	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	107	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	107	112	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	101	105	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	96	98	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	100	80-120	5	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	107	71-120	7	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	99	101	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	95	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	93	91	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	106	80-120	6	30
Trichloroethene	1	U	1.	5	ug/l	98	97	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	104	95	64-129	9	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	111	80-120	11	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	100	102	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	100	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	86	65-125	10	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
Batch number: 11041SLB026	Sample number(s): 6201155,6201157-6201161									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	101		70-130		
Batch number: 11041SLD026	Sample number(s): 6201155-6201163									
Aniline	170 U		170.	500	ug/kg	66		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	67		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	111		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	107		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	118		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	108		67-125		
Benzoic acid	170 U		170.	500	ug/kg	99		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	91		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	53		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	87		79-110		
Chrysene	17	U	17.	170	ug/kg	107		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	118		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	93		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	91		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	106		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	79		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	71		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	107		64-119		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	93		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	79		51-117		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	105		58-112		
Pyrene	17	U	17.	170	ug/kg	110		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	85		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11042SLB026	Sample number(s): 6201155-6201163									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	99		63-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	102		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	114		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	107		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	109		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	122		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	117		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	118		79-121		
Bis(2-Ethylhexyl)phthalate	8.3	J	6.0	18	ug/kg	139		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	100		55-118		
Di-n-octylphthalate	6.3	J	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	111		56-121		
Batch number: 11035A34B	Sample number(s): 6201155,6201157-6201159									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	69	67-119	1	30
Batch number: 11042B20A	Sample number(s): 6201164									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 110460005A	Sample number(s): 6201155,6201157-6201161									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	123*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	124	119	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	124	118	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	121		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	119		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
HMX	100 U		100.	300	ug/kg	110		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	122*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	100		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	118		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	117		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	120		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	121		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 110450008A	Sample number(s): 6201155,6201157-6201161									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	95		80-126		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110520023A	Sample number(s): 6201160-6201163									
2,4-D	1.2	U	1.2	3.6	ug/kg	89		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	29		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	82		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	80		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	19		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	98		60-141		
MCPA	76	U	76.	250	ug/kg	99		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	77		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	83		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	77		48-138		
Batch number: 110470012A	Sample number(s): 6201159-6201160									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	102		85-115		
Batch number: 110420002A	Sample number(s): 6201160-6201163									
Aldrin	0.066	U	0.066	0.17	ug/kg	133		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	97		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	135		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	103		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	98		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	70		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	117		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	131		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	95		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	98		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	123		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	127		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	103		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110480040A	Sample number(s): 6201155-6201163									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	75	63	36-106	18	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110410019A	Sample number(s): 6201155,6201157-6201161									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	93		66-113		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	68		66-113		
Batch number: 110400029A	Sample number(s): 6201155,6201157-6201161									
Ethanol	100 U		100.	500	ug/kg	99		75-112		
Isopropanol	100 U		100.	500	ug/kg	100		75-125		
Methanol	100 U		100.	500	ug/kg	99		75-134		
Batch number: 110410001A	Sample number(s): 6201155,6201157-6201161									
Diethylene glycol	6.0	U	6.0	13	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	97		75-125		
Batch number: 110410018A	Sample number(s): 6201155,6201157-6201161									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	109		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	109		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 110411026002A	Sample number(s): 6201155-6201163									
Antimony	0.0600	U	0.0600	0.200	mg/kg	97		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	106		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	110		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	112		82-118		
Copper	0.0662	J	0.0660	0.400	mg/kg	102		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	105		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	104		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	100		78-122		
Batch number: 110411026002B	Sample number(s): 6201155-6201163									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 110411026002C	Sample number(s): 6201155-6201163									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 110411026002D	Sample number(s): 6201155-6201163									
Barium	0.108	U	0.108	0.400	mg/kg	102		79-121		
Batch number: 110415708002	Sample number(s): 6201155-6201163									
Aluminum	5.03	U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	96		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		81-119		
Phosphorus	0.560	U	0.560	10.0	mg/kg	108		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	107		79-121		
Tin	1.50	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	90		80-120		

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Zirconium	0.840	U	0.840	5.00	mg/kg	99		80-120		
Batch number: 110415711002	Sample number(s): 6201155-6201163									
Mercury	0.0027	U	0.0027	0.0940	mg/kg	99		88-123		
Batch number: 11046102201A	Sample number(s): 6201155,6201157-6201161									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11048243201A	Sample number(s): 6201155-6201163									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11052621201A	Sample number(s): 6201155-6201158									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11052621201B	Sample number(s): 6201159-6201160,6201162									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11053621201A	Sample number(s): 6201155-6201163									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11053621202A	Sample number(s): 6201161,6201163									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	91		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11041039401A	Sample number(s): 6201155-6201157									
22a pH by 9045C						100		95-105		
Batch number: 11041039401B	Sample number(s): 6201158-6201163									
22a pH by 9045C						100		95-105		
Batch number: 11041182101A	Sample number(s): 6201155-6201157									
32a OR Potential						100		98-102		
Batch number: 11041182101B	Sample number(s): 6201158-6201163									
32a OR Potential						100		98-102		
Batch number: 11047162401B	Sample number(s): 6201156,6201162-6201163									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11054162401A	Sample number(s): 6201155,6201157-6201161									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11041SLB026	Sample number(s): 6201155,6201157-6201161 UNSPK: 6201155								
N-Nitrosodimethylamine	87	88	70-130	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11041SLD026	Sample number(s): 6201155-6201163 UNSPK: 6201155								
Aniline	62	70	35-95	12	30				
Benzidine	16*	0*	35-141	200*	30				
Benzo(a)anthracene	99	102	65-122	3	30				
Benzo(a)pyrene	106	111	57-126	4	30				
Benzo(b)fluoranthene	103	107	59-125	4	30				
Benzo(g,h,i)perylene	118	123	59-127	4	30				
Benzo(k)fluoranthene	108	111	56-132	3	30				
Benzoic acid	79	89	10-173	12	30				
Benzyl alcohol	90	91	67-115	2	30				
4-Bromophenyl-phenylether	89	88	67-129	1	30				
Carbazole	98	98	64-120	0	30				
4-Chloro-3-methylphenol	93	95	76-110	2	30				
4-Chloroaniline	61	74	23-95	20	30				
bis(2-Chloroethoxy)methane	91	95	75-104	4	30				
bis(2-Chloroethyl)ether	94	92	60-116	2	30				
bis(2-Chloroisopropyl)ether	98	93	55-142	5	30				
2-Chloronaphthalene	86	86	50-141	0	30				
2-Chlorophenol	98	97	73-121	1	30				
4-Chlorophenyl-phenylether	86	87	80-109	2	30				
Chrysene	105	106	62-128	1	30				
Dibenz(a,h)anthracene	111	118	65-125	6	30				
Dibenzofuran	95	95	71-112	0	30				
1,2-Dichlorobenzene	86	87	66-108	1	30				
1,3-Dichlorobenzene	87	85	63-109	3	30				
1,4-Dichlorobenzene	86	86	70-100	0	30				
3,3'-Dichlorobenzidine	44	58	16-119	27	30				
2,4-Dichlorophenol	94	96	78-117	2	30				
2,4-Dimethylphenol	92	94	78-110	2	30				
3,5-Dimethylphenol	103	110	70-130	7	30				
Dimethylphthalate	92	92	64-118	0	30				
4,6-Dinitro-2-methylphenol	78	79	24-116	1	30				
2,4-Dinitrophenol	70	71	20-143	1	30				
2,4-Dinitrotoluene	94	91	73-113	3	30				
2,6-Dinitrotoluene	99	96	69-123	3	30				
1,2-Diphenylhydrazine	111	109	71-129	1	30				
bis(2-Ethylhexyl)phthalate	105	109	63-122	4	30				
Fluoranthene	93	93	73-112	1	30				
Hexachlorobenzene	92	91	77-114	2	30				
Hexachlorobutadiene	81	83	62-120	2	30				
Hexachlorocyclopentadiene	72	75	10-153	5	30				
Hexachloroethane	88	86	57-109	2	30				
Indeno(1,2,3-cd)pyrene	106	112	61-126	5	30				
Isophorone	91	94	73-102	3	30				
2-Methylphenol	101	102	75-111	1	30				
4-Methylphenol	93	94	71-111	1	30				
2-Nitroaniline	103	101	67-125	2	30				
3-Nitroaniline	98	99	59-122	1	30				
4-Nitroaniline	72	81	52-112	12	30				
Nitrobenzene	94	99	72-106	5	30				
2-Nitrophenol	88	99	74-115	12	30				
4-Nitrophenol	86	88	54-113	2	30				
N-Nitroso-di-n-propylamine	93	95	60-116	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodiphenylamine	97	97	86-145	1	30				
Pentachlorophenol	81	81	28-127	0	30				
Phenanthrene	96	95	65-125	1	30				
Phenol	102	107	58-126	4	30				
Pyrene	105	106	74-126	1	30				
1,2,4-Trichlorobenzene	87	87	72-115	0	30				
2,4,5-Trichlorophenol	91	92	78-109	2	30				
2,4,6-Trichlorophenol	91	89	77-115	2	30				
Batch number: 11042SLB026	Sample number(s): 6201155-6201163 UNSPK: 6201156								
Acenaphthene	83	91	63-105	10	30				
Acenaphthylene	88	98	67-114	10	30				
Anthracene	92	102	60-122	10	30				
Benzo(a)anthracene	100	110	59-128	9	30				
Benzo(a)pyrene	96	105	45-138	9	30				
Benzo(b)fluoranthene	98	106	43-155	7	30				
Benzo(g,h,i)perylene	80	83	33-141	3	30				
Benzo(k)fluoranthene	100	114	42-144	13	30				
Butylbenzylphthalate	201*	131	57-173	42*	30				
Di-n-butylphthalate	86	101	65-148	12	30				
Chrysene	98	107	48-134	9	30				
Dibenz(a,h)anthracene	88	94	22-133	7	30				
Diethylphthalate	101	118	70-136	15	30				
Dimethylphthalate	58*	82	74-118	21	30				
Bis(2-Ethylhexyl)phthalate	105	108	39-167	2	30				
Fluoranthene	94	102	26-166	8	30				
Fluorene	88	98	66-122	11	30				
Indeno(1,2,3-cd)pyrene	88	93	21-143	5	30				
1-Methylnaphthalene	84	96	72-123	14	30				
2-Methylnaphthalene	76	86	64-103	12	30				
Naphthalene	79	95	61-102	18	30				
N-Nitrosodimethylamine	84	98	48-113	15	30				
Di-n-octylphthalate	116	109	40-192	5	30				
Phenanthrene	87	96	12-165	9	30				
Pyrene	94	102	15-153	8	30				
Batch number: 11035A34B	Sample number(s): 6201155,6201157-6201159 UNSPK: P197571								
9a TPH by EPA 8015B Gas C5-C12	60	60	39-118	6	30				
Batch number: 110460005A	Sample number(s): 6201155,6201157-6201161 UNSPK: 6201155								
4-Amino-2,6-Dinitrotoluene	85	105	80-127	21	50				
2-Amino-4,6-Dinitrotoluene	87	106	80-137	20	50				
1,3-Dinitrobenzene	91	107	38-166	16	50				
2,4-Dinitrotoluene	89	105	80-131	17	50				
2,6-Dinitrotoluene	91	106	80-127	15	50				
HMX	75	95	63-128	24	50				
Nitrobenzene	93	104	80-125	11	50				
Nitroglycerin	77*	93	80-120	19	50				
2-Nitrotoluene	92	105	80-122	14	50				
3-Nitrotoluene	92	105	72-119	13	50				
4-Nitrotoluene	91	103	80-125	13	50				
PETN	87	110	80-121	23	50				
RDX	79	99	75-129	22	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetryl	69	89	55-174	26	50				
1,3,5-Trinitrobenzene	88	105	82-126	17	50				
2,4,6-Trinitrotoluene	87	105	82-130	19	50				
Batch number: 110450008A	Sample number(s): 6201155,6201157-6201161 UNSPK: 6201155								
17a Formaldehyde by 8315A	98	93	80-120	5	50				
Batch number: 110520023A	Sample number(s): 6201160-6201163 UNSPK: 6201161								
2,4-D	98	83	28-161	16	35				
Dalapon	39	41	12-86	6	50				
2,4-DB	112	131	20-170	16	50				
Dicamba	59	93	33-120	44	50				
Dinoseb	17	19	1-44	8	35				
2,4-DP (Dichlorprop)	100	101	55-141	1	50				
MCPA	76	72	31-184	4	50				
MCPP (Mecoprop)	95	124	16-174	27	50				
2,4,5-T	83	57	25-132	38*	35				
2,4,5-TP	76	78	10-183	3	35				
Batch number: 110470012A	Sample number(s): 6201159-6201160 UNSPK: P206985								
6a Perchlorate EPA 6850	107	107	80-120	0	20				
Batch number: 110420002A	Sample number(s): 6201160-6201163 UNSPK: P203555								
Aldrin	115	118	16-126	3	50				
Alpha BHC	64	64	10-129	0	50				
Beta BHC	84	78	14-147	8	50				
Gamma BHC - Lindane	76	73	10-140	4	50				
p,p-DDD	87	85	16-163	2	50				
p,p-DDE	108	112	18-161	4	50				
p,p-DDT	102	131	10-176	25	50				
Delta BHC	75	78	23-140	4	50				
Dieldrin	73	79	19-154	8	50				
Endosulfan I	48	52	16-137	6	50				
Endosulfan II	80	92	28-154	14	50				
Endosulfan Sulfate	94	94	21-160	0	50				
Endrin	70	76	11-149	8	50				
Endrin Aldehyde	58	64	10-148	10	35				
Endrin Ketone	108	98	22-165	9	50				
Heptachlor	76	76	13-126	0	50				
Heptachlor Epoxide	100	121	13-157	19	50				
Methoxychlor	79	59	32-147	29	50				
Batch number: 110480040A	Sample number(s): 6201155-6201163 UNSPK: P200286								
PCB-1016	83	92	29-146	10	50				
PCB-1260	91	105	39-149	14	50				
Batch number: 110410019A	Sample number(s): 6201155,6201157-6201161 UNSPK: 6201155								
EFH (C12-C14)	68	69	49-123	2	20				
EFH (C15-C20)	63	67	49-123	4	20				
EFH (C21-C30)	106	102	49-123	3	20				
EFH (C30 - C40)	97	98	49-123	0	20				
EFH (C8-C11)	19*	20*	49-123	6	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110400029A	Sample number(s): 6201155,6201157-6201161 UNSPK: 6201155								
Ethanol	84	86	24-143	3	20				
Isopropanol	85	89	75-125	4	20				
Methanol	86	92	45-136	7	20				
Batch number: 110410001A	Sample number(s): 6201155,6201157-6201161 UNSPK: 6201155								
Diethylene glycol	82	71	59-109	14	20				
Ethylene glycol	90	86	63-107	5	20				
Propylene glycol	87	84	63-107	3	20				
Batch number: 110410018A	Sample number(s): 6201155,6201157-6201161 UNSPK: 6201155								
m-Terphenyl	90	90	75-125	1	20				
o-Terphenyl	91	92	75-125	1	20				
p-Terphenyl	84	84	75-125	1	20				
Batch number: 110411026002A	Sample number(s): 6201155-6201163 UNSPK: P200286 BKG: P200286								
Antimony	43*	40*	75-125	9	20	0.134 J	0.136 J	1 (1)	20
Arsenic	108	87	75-125	6	20	6.68	6.79	2	20
Beryllium	88	87	75-125	3	20	0.430	0.450	5 (1)	20
Cadmium	97	99	75-125	1	20	0.0529 J	0.0613 J	15 (1)	20
Chromium	103	95	75-125	3	20	22.2	23.8	7	20
Cobalt	87	87	75-125	2	20	6.12	5.79	6	20
Copper	88	93	75-125	2	20	7.65	7.97	4	20
Lead	104	102	75-125	2	20	4.58	5.01	9	20
Nickel	89	89	75-125	1	20	14.8	14.2	4	20
Silver	98	100	75-125	1	20	0.0174 J	0.0195 J	11 (1)	20
Thallium	86	87	75-125	1	20	0.251	0.219	14 (1)	20
Vanadium	110	120	75-125	1	20	38.2	42.5	11	20
Zinc	99 (2)	117 (2)	75-125	3	20	46.5	46.2	1	20
Batch number: 110411026002B	Sample number(s): 6201155-6201163 UNSPK: P200286 BKG: P200286								
Selenium	83	82	75-125	5	20	0.133 J	0.116 J	14 (1)	20
Batch number: 110411026002C	Sample number(s): 6201155-6201163 UNSPK: P200286 BKG: P200286								
Molybdenum	98	98	75-125	3	20	0.529	0.541	2	20
Batch number: 110411026002D	Sample number(s): 6201155-6201163 UNSPK: P200286 BKG: P200286								
Barium	126 (2)	133 (2)	75-125	0	20	52.2	64.2	21*	20
Batch number: 110415708002	Sample number(s): 6201155-6201163 UNSPK: P200286 BKG: P200286								
Aluminum	1344 (2)	1349 (2)	75-125	0	20	14,500	14,400	1	20
Boron	100	99	84-115	3	20	0.873 U	0.881 U	0 (1)	20
Calcium	203 (2)	162 (2)	75-125	6	20	2,370	2,420	2	20
Iron	784 (2)	458 (2)	75-125	2	20	20,700	20,100	3	20
Lithium	100	97	82-114	4	20	19.6	19.8	1	20
Magnesium	351 (2)	177 (2)	75-125	6	20	5,090	4,960	3	20
Manganese	174 (2)	115 (2)	75-125	10	20	228	245	7	20
Phosphorus	139*	96	75-125	10	20	344	342	0	20
Potassium	137*	117	75-125	7	20	1,780	1,780	0	20
Sodium	101	98	75-125	4	20	93.0 J	88.3 J	5 (1)	20
Strontium	100	99	75-115	3	20	17.0	16.7	2	20
Tin	90	90	80-110	2	20	2.24 J	2.42 J	8 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Titanium	396 (2)	303 (2)	75-125	7	20	1,060		1,100		3	20
Zirconium	97	96	75-125	4	20	1.91	J	2.35	J	21* (1)	20
Batch number: 110415711002	Sample number(s): 6201155-6201163 UNSPK: P200286 BKG: P200286										
Mercury	105	101	65-135	3	20	0.0027	U	0.0027	U	0 (1)	20
Batch number: 11046102201A	Sample number(s): 6201155,6201157-6201161 UNSPK: 6201155 BKG: 6201155										
21a Cyanide by 9012B	109		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11048243201A	Sample number(s): 6201155-6201163 UNSPK: P202512 BKG: P202512										
3a Cr VI by EPA 7199	95		75-125			0.22	J	0.48	J	76* (1)	20
Batch number: 11052621201A	Sample number(s): 6201155-6201158 UNSPK: P200286 BKG: P200286										
11a Anions by 300.0 - Fluoride	54*		80-120			0.97	J	0.80	U	200* (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			3.3		3.2		5 (1)	20
Batch number: 11052621201B	Sample number(s): 6201159-6201160,6201162 UNSPK: 6201159 BKG: 6201159										
11a Anions by 300.0 - Fluoride	127*		80-120			1.9		1.9		1 (1)	20
11a Anions by 300.0 - Nitrate	106		80-120			4.5		4.1		10 (1)	20
Batch number: 11053621201A	Sample number(s): 6201155-6201163 UNSPK: 6201155 BKG: 6201155										
7a Perchlorate EPA 314.0	102		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11053621202A	Sample number(s): 6201161,6201163 UNSPK: 6201161 BKG: 6201161										
11a Anions by 300.0 - Fluoride	83		80-120			2.1		2.4		14 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11041039401A	Sample number(s): 6201155-6201157 BKG: P200286										
22a pH by 9045C						6.39		6.31		1	1
Batch number: 11041039401B	Sample number(s): 6201158-6201163 BKG: 6201158										
22a pH by 9045C						8.39		8.35		0	1
Batch number: 11041182101A	Sample number(s): 6201155-6201157 BKG: P200286										
32a OR Potential						556		560		1	6
Batch number: 11041182101B	Sample number(s): 6201158-6201163 BKG: 6201158										
32a OR Potential						321		322		0	6
Batch number: 11047162401B	Sample number(s): 6201156,6201162-6201163 BKG: P200286										
28a Moisture Content by 160.3						8.9		8.9		0	20
Batch number: 11054162401A	Sample number(s): 6201155,6201157-6201161 BKG: 6201155										
28a Moisture Content by 160.3						10.5		11.7		11	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Surrogate Quality Control

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6201155	112	117	103	90
6201156	112	106	102	96
6201157	109	106	103	93
6201158	109	107	101	89
6201159	111	108	101	87
Blank	112	111	98	89
LCS	103	107	106	107
LCSD	102	107	106	105
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110451AA

	Toluene-d8
6201164	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110461AA

	Toluene-d8
6201155	95
6201156	94
6201157	94
6201158	94
6201159	94
Blank	96
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6201164	99	101	103	98
Blank	99	101	103	98
LCS	100	103	104	101
LCSD	100	101	105	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C
Batch number: 11041SLB026

	N-Nitrosodimethylamine-d6

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Surrogate Quality Control

6201155	91
6201157	485*
6201158	484*
6201159	445*
6201160	435*
6201161	505*
Blank	97
LCS	98
MS	84
MSD	111
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11041SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6201155	94	97	90	87	91	91
6201156	86	87	79	81	83	86
6201157	90	92	86	87	89	88
6201158	94	93	83	86	84	88
6201159	92	89	87	89	92	92
6201160	95	96	84	90	94	90
6201161	92	90	86	93	93	88
6201162	85	86	82	83	85	86
6201163	94	96	87	90	92	86
Blank	86	89	83	85	86	87
LCS	97	98	92	88	89	88
MS	96	96	92	92	92	88
MSD	97	97	91	94	92	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11042SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6201155	97	82	97
6201156	106	88	105
6201157	98	84	98
6201158	97	81	99
6201159	94	82	103
6201160	107	90	105
6201161	100	86	100
6201162	101	91	106
6201163	100	87	103
Blank	105	101	117
LCS	104	92	105
MS	87	76	90
MSD	102	85	100
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11035A34B

	Trifluorotoluene-F

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Surrogate Quality Control

6201155	84
6201157	74
6201158	79
6201159	72
Blank	88
LCS	87
LCSD	86
MS	72
MSD	70

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11042B20A

	Trifluorotoluene-F
6201164	77
Blank	76
LCS	120
LCSD	120

Limits: 63-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 110420002A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6201160	74	74
6201161	89	62
6201162	77	65
6201163	79	66
Blank	87	107
LCS	83	109
MS	65	79
MSD	62	51

Limits: 50-130 20-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110450008A

	Butyraldehyde
6201155	98
6201157	106
6201158	99
6201159	103
6201160	97
6201161	97
Blank	105
LCS	98
MS	106
MSD	100

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110460005A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Surrogate Quality Control

	2-Nitro-m-xylene
6201155	120
6201157	119
6201158	115
6201159	107
6201160	117
6201161	142
Blank	124
LCS	133
LCSD	125
MS	109
MSD	124
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110480040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6201155	102	117
6201156	99	147*
6201157	109	138*
6201158	89	119
6201159	96	103
6201160	103	102
6201161	96	105
6201162	87	90
6201163	87	93
Blank	96	104
LCS	90	102
LCSD	89	86
MS	82	89
MSD	94	102
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110520023A

	2,4-Dichlorophenylacetic acid
6201160	37
6201161	103
6201162	26*
6201163	100
Blank	85
LCS	94
MS	108
MSD	112
Limits:	36-156

Analysis Name: 25a Alcohols by 8015B
Batch number: 110400029A

	Acetone

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232303
Reported: 03/15/11 at 01:24 PM

Surrogate Quality Control

6201155	90
6201157	87
6201158	95
6201159	91
6201160	97
6201161	95
Blank	102
LCS	103
MS	89
MSD	91

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110410001A

	Tetramethylene glycol
6201155	55
6201157	51
6201158	54
6201159	50
6201160	58
6201161	64
Blank	87
LCS	91
MS	86
MSD	82

Limits: 29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110410018A

	n-Triacontane-d62
6201155	100
6201157	102
6201158	114
6201159	115
6201160	118
6201161	109
Blank	123
LCS	117
MS	102
MSD	104

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110410019A

	Chlorobenzene	Orthoterphenyl
6201155	63	80
6201157	60	84
6201158	64	95
6201159	70	94
6201160	72	97
6201161	72	90

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Quality Control Summary

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Reported: 03/15/11 at 01:24 PM

Surrogate Quality Control

Blank	71	89
LCS	78	89
MS	64	83
MSD	61	80
Limits:	37-125	47-145

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13013 1232303 G201155-64

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Rand Hartmann Chris Pitt

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs EPA 8260B $	1,4-Dioxane EPA 8260S IM $	TPH-DRO EPA 8015B $	*tpi EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 80*5B	**Glycols EPA 80*5B	**Alcohols EPA 80*5B	Other Instructions and Notes
SL-167-SA5B-SB-4.0-5.0	2.08.2011	1149	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	SL-168 per client email AHO 2/9/11
SL-167-SA5B-SB-4.5	2.08.2011	1146	SOIL	NONE	5-Encores											X	X	X											"
SL-168-SA5B-SB-4.0-5.0	2.08.2011	1008	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X																	SL-164 AHO 2/9/11
SL-168-SA5B-SB-4.5	2.08.2011	1004	SOIL	NONE	4-Encores											X	X												"
SL-313-SA5B-SB-4.0-5.0	2.08.2011	1424	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-313-SA5B-SB-4.5	2.08.2011	1420	SOIL	NONE	5-Encores											X	X	X											
SL-313-SA5B-SB-9.0-10.0	2.08.2011	1433	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-313-SA5B-SB-9.5	2.08.2011	1430	SOIL	NONE	5-Encores											X	X	X											
SL-314-SA5B-SB-4.0-5.0	2.08.2011	1610	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-314-SA5B-SB-4.5	2.08.2011	1606	SOIL	NONE	5-Encores											X	X	X											
SL-315-SA5B-SS-0.0-0.5	2.08.2011	1618	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-315-SA5B-SS-0.0-0.5	2.08.2011	1618	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-316-SA5B-SS-0.0-0.5	2.08.2011	1402	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	
SL-316-SA5B-SS-0.0-0.5	2.08.2011	1402	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-327-SA5B-SS-0.0-0.5	2.08.2011	1539	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-327-SA5B-SS-0.0-0.5	2.08.2011	1539	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-328-SA5B-SS-0.0-0.5	2.08.2011	1509	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-328-SA5B-SS-0.0-0.5	2.08.2011	1509	SOIL	NONE	1-6-inch sleeve			X	X																				
TB-020911	2.08.2011	0800	WATER	HCl	3-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 02/08/2011 / 17:00 — Received for Laboratory by: (*Signature*) LLL 2/9/11 910

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8695 1432 2913 ...2924

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Wednesday, February 09, 2011 11:34 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy
Subject: RE: Sample ID and COC Discrepancy for two samples

Yes, I double checked the sampler's logbook. The jars are correct. Thanks!

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, February 09, 2011 8:32 AM
To: Crites, Ann Marie
Subject: RE: Sample ID and COC Discrepancy for two samples

Thanks. So we will follow the jars for analyses and times.

From: Crites, Ann Marie [mailto:CritesAM@cdm.com]
Sent: Wednesday, February 09, 2011 11:27 AM
To: Nicole Maljovec
Subject: RE: Sample ID and COC Discrepancy for two samples

Oops. Bad me. Go with whatever is on the jar. The COC is incorrect. I will make the corrections and send out a revised copy. Thanks for catching that!

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, February 09, 2011 8:25 AM
To: Crites, Ann Marie; Bloisa, Peggy
Subject: Sample ID and COC Discrepancy for two samples

Good morning!
I think either the IDs on the bottle labels were switched or the IDs on the COC were switched for SL-164 and SL-168.

The COC says there should be 4 jars and 5 encores for SL-164 collected at 1149, but we received 2 jars and 4 encores with a collection time of 10:08. There should have been 2 jars and 4 encores for SL-168 collected at 10:08, but we have 4 jars and 5 encores with a collection time of 11:49.

Can you double check and let me know how to enter these two?

Thanks!
Nicole

From: Crites, Ann Marie [mailto:CritesAM@cdm.com]
Sent: Tuesday, February 08, 2011 8:26 PM
To: Bloisa, Peggy; Burgesser, Todd; Laura Rainey; Nicole Maljovec; SA Env Entry; Samaritoni, Shelley; Zakowski, Cherie
Subject:

Here is today's COC.

Closing remarks from the field:

We got a late start. John informed me at 8:45 this morning that we should proceed with sampling while the locations were sorted out. At 10:00AM, Stew finally sent the list and a map, which I passed on. In the field, HGL was still performing a utility locate. When that task was complete, the driller moved into the field and set up. The startup was delayed due to a miscommunication on my part after reading the flurry of e-mails regarding the selection of locations. I hesitated in letting Stew know we were ready to start while I was trying to make sense of the maps. At noon, John confirmed (again) that we should move forward and this was communicated to Stew. The team broke for lunch and proceeded with sampling after lunch. 4 subsurface and 4 surface locations were sampled today. Those numbers are expected to increase for the rest of the week. Sampling is expected to continue into next week.

Tomorrow will be a better day!

Thanks everyone.

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/09/2011
Group Number: 1232305
SDG: DX048
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-168-SA5B-SB-4.0-5.0 Soil	6201181
SL-164-SA5B-SB-4.0-5.0 Soil	6201182
SL-313-SA5B-SB-4.0-5.0 Soil	6201183
SL-313-SA5B-SB-9.0-10.0 Soil	6201184
SL-314-SA5B-SB-4.0-5.0 Soil	6201185
SL-315-SA5B-SS-0.0-0.5 Soil	6201186
SL-316-SA5B-SS-0.0-0.5 Soil	6201187
SL-327-SA5B-SS-0.0-0.5 Soil	6201188
SL-328-SA5B-SS-0.0-0.5 Soil	6201189

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-168-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201181
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS168 SDG#: DX048-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-168-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201181
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS168 SDG#: DX048-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0206	J	0.00816	1.12	1
11031	12378-PeCDD	40321-76-4	0.115	JB	0.0244	5.59	1
11031	123478-HxCDD	39227-28-6	0.199	JB	0.0450	5.59	1
11031	123678-HxCDD	57653-85-7	0.966	JB	0.0463	5.59	1
11031	123789-HxCDD	19408-74-3	0.718	JB	0.0426	5.59	1
11031	1234678-HpCDD	35822-46-9	19.7	B	0.0412	5.59	1
11031	OCDD	3268-87-9	207	B	0.0436	11.2	1
11031	2378-TCDF	51207-31-9	0.148	J	0.0279	1.12	1
11031	12378-PeCDF	57117-41-6	0.103	JBQ	0.0114	5.59	1
11031	23478-PeCDF	57117-31-4	0.201	JB	0.0135	5.59	1
11031	123478-HxCDF	70648-26-9	0.322	JB	0.0340	5.59	1
11031	123678-HxCDF	57117-44-9	0.177	JB	0.0235	5.59	1
11031	123789-HxCDF	72918-21-9	0.301	JB	0.0278	5.59	1
11031	234678-HxCDF	60851-34-5	0.253	JB	0.0220	5.59	1
11031	1234678-HpCDF	67562-39-4	2.82	JB	0.0171	5.59	1
11031	1234789-HpCDF	55673-89-7	0.344	JB	0.0297	5.59	1
11031	OCDF	39001-02-0	6.45	JB	0.0193	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-168-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201181
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS168 SDG#: DX048-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-168-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA5B-SB-4.0-5.0

LLI Sample # SW 6201181
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 11:49

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS168 SDG#: DX048-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 07:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-164-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201182
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS164 SDG#: DX048-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-164-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201182
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS164 SDG#: DX048-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0833	JBQ	0.0180	1.08	1
11031	12378-PeCDD	40321-76-4	0.446	JB	0.0529	5.40	1
11031	123478-HxCDD	39227-28-6	0.992	J	0.114	5.40	1
11031	123678-HxCDD	57653-85-7	3.84	JB	0.114	5.40	1
11031	123789-HxCDD	19408-74-3	2.07	JB	0.108	5.40	1
11031	1234678-HpCDD	35822-46-9	91.8	B	0.0908	5.40	1
11031	OCDD	3268-87-9	1,020	B	0.0694	10.8	1
11031	2378-TCDF	51207-31-9	0.821	J	0.0646	1.08	1
11031	12378-PeCDF	57117-41-6	0.352	JB	0.0332	5.40	1
11031	23478-PeCDF	57117-31-4	0.704	JB	0.0332	5.40	1
11031	123478-HxCDF	70648-26-9	1.04	JB	0.0693	5.40	1
11031	123678-HxCDF	57117-44-9	0.774	JB	0.0518	5.40	1
11031	123789-HxCDF	72918-21-9	0.284	JB	0.0563	5.40	1
11031	234678-HxCDF	60851-34-5	1.01	JB	0.0447	5.40	1
11031	1234678-HpCDF	67562-39-4	12.2	B	0.0429	5.40	1
11031	1234789-HpCDF	55673-89-7	1.43	JB	0.0584	5.40	1
11031	OCDF	39001-02-0	27.2	B	0.0344	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	107	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	101	24 - 169
13C12-12378-PeCDF	128	24 - 185
13C12-23478-PeCDF	119	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	98	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-164-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201182
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS164 SDG#: DX048-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-164-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA5B-SB-4.0-5.0

LLI Sample # SW 6201182
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 10:08

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS164 SDG#: DX048-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/24/2011 21:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-313-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201183
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3134 SDG#: DX048-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-313-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201183
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3134 SDG#: DX048-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0250	J	0.0103	1.11	1
11031	12378-PeCDD	40321-76-4	0.119	JBQ	0.0243	5.55	1
11031	123478-HxCDD	39227-28-6	0.211	JB	0.0544	5.55	1
11031	123678-HxCDD	57653-85-7	0.799	JB	0.0513	5.55	1
11031	123789-HxCDD	19408-74-3	0.684	JB	0.0440	5.55	1
11031	1234678-HpCDD	35822-46-9	29.3	B	0.0447	5.55	1
11031	OCDD	3268-87-9	372	B	0.107	11.1	1
11031	2378-TCDF	51207-31-9	0.0198	J	0.0122	1.11	1
11031	12378-PeCDF	57117-41-6	0.0431	JB	0.00633	5.55	1
11031	23478-PeCDF	57117-31-4	0.111	JB	0.00666	5.55	1
11031	123478-HxCDF	70648-26-9	0.139	JB	0.0418	5.55	1
11031	123678-HxCDF	57117-44-9	0.151	JB	0.0286	5.55	1
11031	123789-HxCDF	72918-21-9	0.152	JBQ	0.0213	5.55	1
11031	234678-HxCDF	60851-34-5	0.168	JBQ	0.0189	5.55	1
11031	1234678-HpCDF	67562-39-4	2.19	JB	0.0297	5.55	1
11031	1234789-HpCDF	55673-89-7	0.195	JB	0.0264	5.55	1
11031	OCDF	39001-02-0	5.78	JB	0.0262	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-313-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201183
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3134 SDG#: DX048-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-313-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-4.0-5.0

LLI Sample # SW 6201183
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:24

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3134 SDG#: DX048-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11060001	03/06/2011 08:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11060001	03/01/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-313-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201184
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3139 SDG#: DX048-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201184
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3139 SDG#: DX048-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0444	JB	0.0104	1.12	1
11031	12378-PeCDD	40321-76-4	0.532	JB	0.0296	5.59	1
11031	123478-HxCDD	39227-28-6	0.931	J	0.0458	5.59	1
11031	123678-HxCDD	57653-85-7	2.12	JB	0.0438	5.59	1
11031	123789-HxCDD	19408-74-3	2.43	JB	0.0361	5.59	1
11031	1234678-HpCDD	35822-46-9	51.7	B	0.0526	5.59	1
11031	OCDD	3268-87-9	540	B	0.0523	11.2	1
11031	2378-TCDF	51207-31-9	0.0499	J	0.0121	1.12	1
11031	12378-PeCDF	57117-41-6	0.0885	JBQ	0.00816	5.59	1
11031	23478-PeCDF	57117-31-4	0.216	JB	0.00860	5.59	1
11031	123478-HxCDF	70648-26-9	0.318	JB	0.0498	5.59	1
11031	123678-HxCDF	57117-44-9	0.466	JB	0.0352	5.59	1
11031	123789-HxCDF	72918-21-9	0.182	JB	0.0232	5.59	1
11031	234678-HxCDF	60851-34-5	0.747	JB	0.0212	5.59	1
11031	1234678-HpCDF	67562-39-4	7.40	B	0.0358	5.59	1
11031	1234789-HpCDF	55673-89-7	0.470	JB	0.0303	5.59	1
11031	OCDF	39001-02-0	15.5	B	0.0283	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-313-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201184
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3139 SDG#: DX048-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-313-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-313-SA5B-SB-9.0-10.0

LLI Sample # SW 6201184
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:33

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3139 SDG#: DX048-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 02:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-314-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201185
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS314 SDG#: DX048-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-314-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201185
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS314 SDG#: DX048-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0408	JBQ	0.0104	1.11	1
11031	12378-PeCDD	40321-76-4	0.592	JB	0.0336	5.54	1
11031	123478-HxCDD	39227-28-6	0.979	J	0.0565	5.54	1
11031	123678-HxCDD	57653-85-7	2.18	JB	0.0580	5.54	1
11031	123789-HxCDD	19408-74-3	2.55	JB	0.0566	5.54	1
11031	1234678-HpCDD	35822-46-9	65.2	B	0.0930	5.54	1
11031	OCDD	3268-87-9	934	B	0.0814	11.1	1
11031	2378-TCDF	51207-31-9	0.0337	JQ	0.0146	1.11	1
11031	12378-PeCDF	57117-41-6	0.0687	JBQ	0.00897	5.54	1
11031	23478-PeCDF	57117-31-4	0.209	JB	0.00908	5.54	1
11031	123478-HxCDF	70648-26-9	0.384	JBQ	0.0392	5.54	1
11031	123678-HxCDF	57117-44-9	0.492	JB	0.0311	5.54	1
11031	123789-HxCDF	72918-21-9	0.140	JB	0.0353	5.54	1
11031	234678-HxCDF	60851-34-5	0.737	JB	0.0289	5.54	1
11031	1234678-HpCDF	67562-39-4	8.50	B	0.0368	5.54	1
11031	1234789-HpCDF	55673-89-7	0.645	JBQ	0.0496	5.54	1
11031	OCDF	39001-02-0	25.7	B	0.0377	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-314-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201185
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS314 SDG#: DX048-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-314-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SB-4.0-5.0

LLI Sample # SW 6201185
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:10

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS314 SDG#: DX048-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 03:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-315-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201186
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS315 SDG#: DX048-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-315-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201186
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS315 SDG#: DX048-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0197	JB	0.00911	1.06	1
11031	12378-PeCDD	40321-76-4	0.279	JB	0.0215	5.30	1
11031	123478-HxCDD	39227-28-6	0.578	J	0.0508	5.30	1
11031	123678-HxCDD	57653-85-7	1.67	JB	0.0493	5.30	1
11031	123789-HxCDD	19408-74-3	1.58	JB	0.0465	5.30	1
11031	1234678-HpCDD	35822-46-9	49.2	B	0.0624	5.30	1
11031	OCDD	3268-87-9	615	B	0.0612	10.6	1
11031	2378-TCDF	51207-31-9	0.0409	J	0.0167	1.06	1
11031	12378-PeCDF	57117-41-6	0.0855	JB	0.00890	5.30	1
11031	23478-PeCDF	57117-31-4	0.176	JBQ	0.00900	5.30	1
11031	123478-HxCDF	70648-26-9	0.306	JB	0.0353	5.30	1
11031	123678-HxCDF	57117-44-9	0.418	JBQ	0.0265	5.30	1
11031	123789-HxCDF	72918-21-9	0.138	JBQ	0.0258	5.30	1
11031	234678-HxCDF	60851-34-5	0.482	JBQ	0.0224	5.30	1
11031	1234678-HpCDF	67562-39-4	5.95	B	0.0352	5.30	1
11031	1234789-HpCDF	55673-89-7	0.446	JB	0.0382	5.30	1
11031	OCDF	39001-02-0	15.6	B	0.0220	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-315-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201186
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS315 SDG#: DX048-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-315-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SS-0.0-0.5

LLI Sample # SW 6201186
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 16:18

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS315 SDG#: DX048-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 04:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-316-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201187
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS316 SDG#: DX048-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-316-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201187
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS316 SDG#: DX048-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0205 JBQ	0.00870	1.05	1
11031	12378-PeCDD	40321-76-4	0.194 JB	0.0181	5.24	1
11031	123478-HxCDD	39227-28-6	0.358 J	0.0406	5.24	1
11031	123678-HxCDD	57653-85-7	1.13 JB	0.0408	5.24	1
11031	123789-HxCDD	19408-74-3	0.915 JB	0.0391	5.24	1
11031	1234678-HpCDD	35822-46-9	34.3 B	0.0563	5.24	1
11031	OCDD	3268-87-9	556 B	0.0590	10.5	1
11031	2378-TCDF	51207-31-9	0.0192 U	0.0192	1.05	1
11031	12378-PeCDF	57117-41-6	0.0336 JBQ	0.00776	5.24	1
11031	23478-PeCDF	57117-31-4	0.141 JB	0.00776	5.24	1
11031	123478-HxCDF	70648-26-9	0.230 JB	0.0280	5.24	1
11031	123678-HxCDF	57117-44-9	0.219 JB	0.0213	5.24	1
11031	123789-HxCDF	72918-21-9	0.0991 JB	0.0231	5.24	1
11031	234678-HxCDF	60851-34-5	0.285 JBQ	0.0186	5.24	1
11031	1234678-HpCDF	67562-39-4	3.81 JB	0.0229	5.24	1
11031	1234789-HpCDF	55673-89-7	0.260 JB	0.0299	5.24	1
11031	OCDF	39001-02-0	11.1 B	0.0253	10.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-316-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201187
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS316 SDG#: DX048-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-316-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SS-0.0-0.5

LLI Sample # SW 6201187
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 14:02

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS316 SDG#: DX048-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 04:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-327-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201188
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS327 SDG#: DX048-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-327-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201188
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS327 SDG#: DX048-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0236	JB	0.00937	1.04	1
11031	12378-PeCDD	40321-76-4	0.209	JB	0.0184	5.20	1
11031	123478-HxCDD	39227-28-6	0.361	J	0.0455	5.20	1
11031	123678-HxCDD	57653-85-7	0.980	JB	0.0452	5.20	1
11031	123789-HxCDD	19408-74-3	0.904	JB	0.0443	5.20	1
11031	1234678-HpCDD	35822-46-9	24.9	B	0.0431	5.20	1
11031	OCDD	3268-87-9	306	B	0.0429	10.4	1
11031	2378-TCDF	51207-31-9	0.0369	JQ	0.0250	1.04	1
11031	12378-PeCDF	57117-41-6	0.00853	U	0.00853	5.20	1
11031	23478-PeCDF	57117-31-4	0.210	JBQ	0.00874	5.20	1
11031	123478-HxCDF	70648-26-9	0.232	JBQ	0.0325	5.20	1
11031	123678-HxCDF	57117-44-9	0.271	JB	0.0251	5.20	1
11031	123789-HxCDF	72918-21-9	0.114	JB	0.0228	5.20	1
11031	234678-HxCDF	60851-34-5	0.380	JB	0.0197	5.20	1
11031	1234678-HpCDF	67562-39-4	4.37	JB	0.0205	5.20	1
11031	1234789-HpCDF	55673-89-7	0.277	JB	0.0227	5.20	1
11031	OCDF	39001-02-0	9.57	JB	0.0252	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-327-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201188
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS327 SDG#: DX048-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-327-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SS-0.0-0.5

LLI Sample # SW 6201188
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:39

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS327 SDG#: DX048-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 05:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-328-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201189
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS328 SDG#: DX048-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	3.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-328-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201189
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS328 SDG#: DX048-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0182 JBQ	0.00998	1.04	1
11031	12378-PeCDD	40321-76-4	0.136 JB	0.0153	5.20	1
11031	123478-HxCDD	39227-28-6	0.205 J	0.0453	5.20	1
11031	123678-HxCDD	57653-85-7	0.740 JB	0.0438	5.20	1
11031	123789-HxCDD	19408-74-3	0.696 JB	0.0392	5.20	1
11031	1234678-HpCDD	35822-46-9	14.9 B	0.0310	5.20	1
11031	OCDD	3268-87-9	212 B	0.0305	10.4	1
11031	2378-TCDF	51207-31-9	0.0890 JQ	0.0277	1.04	1
11031	12378-PeCDF	57117-41-6	0.142 JB	0.0102	5.20	1
11031	23478-PeCDF	57117-31-4	0.446 JB	0.0103	5.20	1
11031	123478-HxCDF	70648-26-9	0.192 JB	0.0390	5.20	1
11031	123678-HxCDF	57117-44-9	0.176 JB	0.0282	5.20	1
11031	123789-HxCDF	72918-21-9	0.119 JBQ	0.0239	5.20	1
11031	234678-HxCDF	60851-34-5	0.212 JB	0.0222	5.20	1
11031	1234678-HpCDF	67562-39-4	2.15 JB	0.0184	5.20	1
11031	1234789-HpCDF	55673-89-7	0.153 JB	0.0201	5.20	1
11031	OCDF	39001-02-0	5.18 JB	0.0261	10.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-328-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SS-0.0-0.5

LLI Sample # SW 6201189
LLI Group # 1232305
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/08/2011 15:09

Submitted: 02/09/2011 09:10
Reported: 03/12/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS328 SDG#: DX048-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS328 SDG#: DX048-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 06:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232305
Reported: 03/12/11 at 11:48 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11047162401B	Sample number(s): 6201182,6201188-6201189								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11054162401A	Sample number(s): 6201181,6201183-6201187								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11049002	Sample number(s): 6201182,6201184-6201189								
2378-TCDD	0.0139 J	0.0121	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0159 J	0.0123	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0123 U	0.0123	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0154 J	0.0116	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0248 J	0.00980	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.135 J	0.0131	5.00	ng/kg	95		70-140		
OCDD	0.324 J	0.0199	10.0	ng/kg	93		78-144		
2378-TCDF	0.0103 U	0.0103	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0168 J	0.00620	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0476 J	0.00670	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0290 J	0.0168	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0270 J	0.0111	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0398 J	0.00850	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0418 J	0.00710	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.144 J	0.0105	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0364 J	0.00950	5.00	ng/kg	94		78-138		
OCDF	0.153 J	0.0183	10.0	ng/kg	95		63-170		
Batch number: 11060001	Sample number(s): 6201181,6201183								
2378-TCDD	0.00920 U	0.00920	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0125 J	0.00930	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0135 J	0.00970	5.00	ng/kg	106		70-164		
123678-HxCDD	0.0102 J	0.00940	5.00	ng/kg	106		76-134		
123789-HxCDD	0.00946 J	0.00850	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.118 J	0.0122	5.00	ng/kg	106		70-140		
OCDD	0.377 J	0.0224	10.0	ng/kg	106		78-144		
2378-TCDF	0.00810 U	0.00810	1.00	ng/kg	117		75-158		
12378-PeCDF	0.0121 J	0.00470	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0394 J	0.00550	5.00	ng/kg	105		68-160		
123478-HxCDF	0.0267 J	0.0110	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0145 J	0.00680	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0364 J	0.00790	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0191 J	0.00560	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0509 J	0.0114	5.00	ng/kg	104		82-122		
1234789-HpCDF	0.0321 J	0.0184	5.00	ng/kg	107		78-138		
OCDF	0.112 J	0.0230	10.0	ng/kg	106		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232305
Reported: 03/12/11 at 11:48 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11047162401B	Sample number(s): 6201182,6201188-6201189 BKG: P200286								
28a Moisture Content by 160.3						8.9	8.9	0	20
Batch number: 11054162401A	Sample number(s): 6201181,6201183-6201187 BKG: P201155								
28a Moisture Content by 160.3						10.5	11.7	11	20
Batch number: 11060001	Sample number(s): 6201181,6201183 UNSPK: P214547								
2378-TCDD	107	108	67-158	1	25				
12378-PeCDD	104	107	70-142	3	25				
123478-HxCDD	104	106	70-164	2	25				
123678-HxCDD	100	109	76-134	8	25				
123789-HxCDD	103	107	64-162	4	25				
1234678-HpCDD	49*	364*	70-140	89*	25				
OCDD	-68 (2)	1254 (2)	78-144	108*	25				
2378-TCDF	110	113	75-158	2	25				
12378-PeCDF	101	103	80-134	2	25				
23478-PeCDF	102	103	68-160	0	25				
123478-HxCDF	104	107	72-134	3	25				
123678-HxCDF	103	105	84-130	2	25				
123789-HxCDF	104	103	78-130	1	25				
234678-HxCDF	102	106	70-156	3	25				
1234678-HpCDF	101	111	82-122	9	25				
1234789-HpCDF	102	104	78-138	2	25				
OCDF	101	109	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11049002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6201182	90	119	66	86	98	88
6201184	82	95	39	52	89	84
6201185	84	98	67	83	89	81
6201186	78	92	56	71	86	80
6201187	78	94	60	76	87	78
6201188	77	96	53	68	85	79
6201189	73	82	44	60	77	75
Blank	82	96	38	54	87	77
OPR	73	86	54	69	76	66

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232305
Reported: 03/12/11 at 11:48 AM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6201182	86	74	59	105	107	83
6201184	50	69	51	91	88	64
6201185	76	66	50	94	90	79
6201186	66	69	56	91	81	74
6201187	73	66	52	86	84	74
6201188	66	71	59	87	86	72
6201189	58	62	49	82	76	65
Blank	52	67	51	101	90	61
OPR	68	54	41	94	83	68
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6201182	86	87	80	72	101	128
6201184	70	79	72	66	93	102
6201185	80	80	73	63	94	102
6201186	76	77	70	62	90	96
6201187	76	78	72	64	90	98
6201188	75	76	73	65	90	100
6201189	67	70	65	58	82	88
Blank	68	79	71	63	86	108
OPR	71	74	66	57	79	97
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11060001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6201181	76	68	47	67	68	62
6201183	74	65	33	46	71	68
Blank	61	50	29	47	53	44
MS	81	77	55	69	79	75
MSD	77	76	47	60	77	76
OPR	71	68	41	60	72	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6201181	69	46	34	94	74	74
6201183	40	53	39	86	69	62
Blank	47	33	23	76	62	57
MS	64	62	49	89	80	79
MSD	50	60	45	90	78	71
OPR	62	54	43	83	75	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232305
Reported: 03/12/11 at 11:48 AM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6201181	74	75	64	49	71	83
6201183	68	74	62	48	73	73
Blank	63	65	55	42	51	63
MS	81	82	72	58	79	83
MSD	77	78	66	52	78	79
OPR	77	79	70	59	65	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1232305 6201181-89

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pam Hartman Glen Bell

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	*pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-168-SA5B-SB-4.0-5.0	2.08.2011	1149	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	SL-168 proceed email AMO 2/9/11
SL-168-SA5B-SB-4.5	2.08.2011	1146	SOIL	NONE	5-Encores											X	X	X											"
SL-168-SA5B-SB-4.0-5.0	2.08.2011	1008	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X																	SL-164 ↓
SL-168-SA5B-SB-4.5	2.08.2011	1004	SOIL	NONE	4-Encores											X	X												"
SL-313-SA5B-SB-4.0-5.0	2.08.2011	1424	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-313-SA5B-SB-4.5	2.08.2011	1420	SOIL	NONE	5-Encores											X	X	X											
SL-313-SA5B-SB-9.0-10.0	2.08.2011	1433	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-313-SA5B-SB-9.5	2.08.2011	1430	SOIL	NONE	5-Encores											X	X	X											
SL-314-SA5B-SB-4.0-5.0	2.08.2011	1610	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-314-SA5B-SB-4.5	2.08.2011	1606	SOIL	NONE	5-Encores											X	X	X											
SL-315-SA5B-SS-0.0-0.5	2.08.2011	1618	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-315-SA5B-SS-0.0-0.5	2.08.2011	1618	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-316-SA5B-SS-0.0-0.5	2.08.2011	1402	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	
SL-316-SA5B-SS-0.0-0.5	2.08.2011	1402	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-327-SA5B-SS-0.0-0.5	2.08.2011	1539	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-327-SA5B-SS-0.0-0.5	2.08.2011	1539	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-328-SA5B-SS-0.0-0.5	2.08.2011	1509	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-328-SA5B-SS-0.0-0.5	2.08.2011	1509	SOIL	NONE	1-6-inch sleeve			X	X																				
TB-020811	2.08.2011	0800	WATER	HCl	3-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 02/08/2011 / 17:00

Received for Laboratory by: (*Signature*) LLI 2/9/11 910

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8695 1432 2913. ...2924

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Wednesday, February 09, 2011 11:34 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy
Subject: RE: Sample ID and COC Discrepancy for two samples

Yes, I double checked the sampler's logbook. The jars are correct. Thanks!

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, February 09, 2011 8:32 AM
To: Crites, Ann Marie
Subject: RE: Sample ID and COC Discrepancy for two samples

Thanks. So we will follow the jars for analyses and times.

From: Crites, Ann Marie [mailto:CritesAM@cdm.com]
Sent: Wednesday, February 09, 2011 11:27 AM
To: Nicole Maljovec
Subject: RE: Sample ID and COC Discrepancy for two samples

Oops. Bad me. Go with whatever is on the jar. The COC is incorrect. I will make the corrections and send out a revised copy. Thanks for catching that!

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, February 09, 2011 8:25 AM
To: Crites, Ann Marie; Bloisa, Peggy
Subject: Sample ID and COC Discrepancy for two samples

Good morning!
I think either the IDs on the bottle labels were switched or the IDs on the COC were switched for SL-164 and SL-168.

The COC says there should be 4 jars and 5 encores for SL-164 collected at 1149, but we received 2 jars and 4 encores with a collection time of 10:08. There should have been 2 jars and 4 encores for SL-168 collected at 10:08, but we have 4 jars and 5 encores with a collection time of 11:49.

Can you double check and let me know how to enter these two?

Thanks!
Nicole

From: Crites, Ann Marie [mailto:CritesAM@cdm.com]
Sent: Tuesday, February 08, 2011 8:26 PM
To: Bloisa, Peggy; Burgesser, Todd; Laura Rainey; Nicole Maljovec; SA Env Entry; Samaritoni, Shelley; Zakowski, Cherie
Subject:

Here is today's COC.

Closing remarks from the field:

We got a late start. John informed me at 8:45 this morning that we should proceed with sampling while the locations were sorted out. At 10:00AM, Stew finally sent the list and a map, which I passed on. In the field, HGL was still performing a utility locate. When that task was complete, the driller moved into the field and set up. The startup was delayed due to a miscommunication on my part after reading the flurry of e-mails regarding the selection of locations. I hesitated in letting Stew know we were ready to start while I was trying to make sense of the maps. At noon, John confirmed (again) that we should move forward and this was communicated to Stew. The team broke for lunch and proceeded with sampling after lunch. 4 subsurface and 4 surface locations were sampled today. Those numbers are expected to increase for the rest of the week. Sampling is expected to continue into next week.

Tomorrow will be a better day!

Thanks everyone.

Ann Marie Crites|Environmental Scientist
CDM | 60 Port Blvd, Ste 201
Libby, Montana 59923
critesam@cdm.com | Cell: 406-422-8139
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/10/2011
Group Number: 1232547
SDG: DE079
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-314-SA5B-SS-0.0-0.5 Soil	6202505
SL-316-SA5B-SB-4.5-5.5 Soil	6202506
SL-319-SA5B-SS-0.0-0.5 Soil	6202509
SL-323-SA5B-SS-0.0-0.5 Soil	6202511
SL-324-SA5B-SS-0.0-0.5 Soil	6202512
SL-326-SA5B-SS-0.0-0.5 Soil	6202514
SL-328-SA5B-SB-3.5-4.5 Soil	6202515
TB-020911 Water	6202516

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-314-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7901 SDG#: DE079-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	90.1	U	90.1	180		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-314-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7901 SDG#: DE079-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.77	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.99	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	8.7	J	6.5	19		1
10138	Chrysene	218-01-9	1.6	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.91	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	1.2	J	0.72	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-314-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7901 SDG#: DE079-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	2.7		0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	340	U	340	340		1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and MCPP.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-314-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E7901 SDG#: DE079-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.092	J	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	1.3	U	1.3	3.7		1
01363	p,p-DDD	72-54-8	0.21	U	0.21	0.37		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.12	U	0.12	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-314-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

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E7901 SDG#: DE079-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	0.73	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	5.5		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	17		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	9.7	U	9.7	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.
Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.44	21.6		1
07914	Boron	7440-42-8	2.18	J	0.962	5.41		1
01650	Calcium	7440-70-2	7,740		6.63	21.6		1
01654	Iron	7439-89-6	16,500		5.09	21.6		1
01656	Lithium	7439-93-2	14.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,510		2.75	10.8		1
06958	Manganese	7439-96-5	225		0.0843	0.541		1
10145	Phosphorus	7723-14-0	789		0.605	10.8		1
01662	Potassium	7440-09-7	2,160		19.5	54.1		1
01667	Sodium	7440-23-5	126		40.3	108		1
07968	Strontium	7440-24-6	39.9		0.0670	0.541		1
06969	Tin	7440-31-5	2.33	J	1.08	10.8		1
06970	Titanium	7440-32-6	949		0.411	1.08		1
10146	Zirconium	7440-67-7	3.72	J	0.908	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	J	0.0642	0.214		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-314-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7901 SDG#: DE079-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.36		0.0856	0.428		2
06126	Barium	7440-39-3	413		0.289	1.07		5
06127	Beryllium	7440-41-7	0.326		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.145		0.0428	0.107		2
06131	Chromium	7440-47-3	21.0		0.128	0.428		2
06132	Cobalt	7440-48-4	6.86		0.0214	0.107		2
06133	Copper	7440-50-8	8.64		0.0706	0.428		2
06135	Lead	7439-92-1	3.76		0.0111	0.214		2
06138	Molybdenum	7439-98-7	1.68		0.0535	0.107		2
06139	Nickel	7440-02-0	12.4		0.107	0.428		2
06141	Selenium	7782-49-2	0.210	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0266	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.215		0.0321	0.107		2
06148	Vanadium	7440-62-2	41.4		0.0235	0.107		2
06149	Zinc	7440-66-6	50.6		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.86	U	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	297		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.5		0.50	0.50		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-314-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7901 SDG#: DE079-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 13:24	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11042SLA026	02/16/2011 12:30	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 09:49	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11042SLA026	02/11/2011 17:15	Sally L Appleyard	1
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 12:11	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 21:20	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 17:15	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:07	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 08:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460014A	02/21/2011 21:06	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460014A	02/15/2011 18:20	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 04:36	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 19:43	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 18:05	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/16/2011 22:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1

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Sample Description: **SL-314-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7901 SDG#: DE079-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
07914	Boron	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
01654	Iron	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
06969	Tin	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110425708002	02/14/2011 16:43	John P Hook	1
06124	Antimony	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110421026001D	02/24/2011 08:11	David K Beck	5
06127	Beryllium	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110421026001C	02/23/2011 19:16	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110421026001B	02/23/2011 19:16	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110421026001A	02/23/2011 19:16	Parker D Lindstrom	2

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Sample Description: **SL-314-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202505
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7901 SDG#: DE079-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	110425711002	02/15/2011 10:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110425708002	02/13/2011 20:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110421026001	02/13/2011 20:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110425711002	02/13/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 18:30	James S Mathiot	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11052621201B	02/22/2011 18:30	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201B	02/22/2011 20:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11048243201A	02/18/2011 16:15	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 18:00	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201B	02/22/2011 11:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11042182101A	02/11/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11042039401A	02/11/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-316-SA5B-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.7		0.9
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.9
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.9
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.9
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.9
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.8		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.9
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.9
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.9
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	3.8		0.9
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8		0.9
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.9
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.9
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.9
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.9
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.9
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.8		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.8		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.9
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.9
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.8		0.9
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.9
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.9
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.9
06192	Ethylbenzene	100-41-4	0.16	J	0.06	3.8		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.9
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.9
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.9
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.9
06192	Isopropylbenzene	98-82-8	0.09	J	0.06	3.8		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.7		0.9
06192	Methylene Chloride	75-09-2	0.86	J	0.23	3.8		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-316-SA5B-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.9
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.9
06192	Toluene	108-88-3	0.16	J	0.08	3.8		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.9
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.9
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.9
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.9
06192	m+p-Xylene	179601-23-1	0.56	J	0.16	3.8		0.9
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		23.23
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	89.0	U	89.0	178		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.7		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	110		6.4	19		1
10138	Di-n-butylphthalate	84-74-2	9.4	J	6.4	19		1
10138	Chrysene	218-01-9	4.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	2.0		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.82	J	0.71	1.8		1
10138	Pyrene	129-00-0	3.9		0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.72
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-316-SA5B-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	3.7		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.76	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.85	U	0.85	2.6		2
10199	EFH (C15-C20)	n.a.	4.0		0.85	2.6		2
10199	EFH (C21-C30)	n.a.	30		0.85	2.6		2
10199	EFH (C30 - C40)	n.a.	66		0.85	2.6		2
10199	EFH (C8-C11)	n.a.	0.85	U	0.85	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.5	U	8.5	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.21	20.7		1
07914	Boron	7440-42-8	0.922	U	0.922	5.18		1
01650	Calcium	7440-70-2	2,660		6.35	20.7		1
01654	Iron	7439-89-6	21,300		4.88	20.7		1
01656	Lithium	7439-93-2	21.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,070		2.63	10.4		1
06958	Manganese	7439-96-5	285		0.0808	0.518		1
10145	Phosphorus	7723-14-0	320		0.580	10.4		1
01662	Potassium	7440-09-7	3,000		18.7	51.8		1
01667	Sodium	7440-23-5	187		38.6	104		1
07968	Strontium	7440-24-6	22.5		0.0642	0.518		1
06969	Tin	7440-31-5	2.63	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,240		0.394	1.04		1
10146	Zirconium	7440-67-7	2.49	J	0.870	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0616	U	0.0616	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.96		0.0821	0.410		2
06126	Barium	7440-39-3	88.8		0.111	0.410		2
06127	Beryllium	7440-41-7	0.492		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.112		0.0410	0.103		2
06131	Chromium	7440-47-3	15.7		0.123	0.410		2
06132	Cobalt	7440-48-4	5.61		0.0205	0.103		2
06133	Copper	7440-50-8	9.70		0.0677	0.410		2
06135	Lead	7439-92-1	6.38		0.0107	0.205		2
06138	Molybdenum	7439-98-7	0.538		0.0513	0.103		2
06139	Nickel	7440-02-0	9.56		0.103	0.410		2
06141	Selenium	7782-49-2	0.0847	J	0.0410	0.410		2
06142	Silver	7440-22-4	0.0337	J	0.0123	0.103		2
06145	Thallium	7440-28-0	0.215		0.0308	0.103		2
06148	Vanadium	7440-62-2	33.8		0.0226	0.103		2
06149	Zinc	7440-66-6	63.5		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0046	J	0.0029	0.102		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6		0.85	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	389		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-316-SA5B-SB-5.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 18:02	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 11:44	Jason M Long	23.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104123667	02/10/2011 18:57	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-316-SA5B-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104123667	02/10/2011 19:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104123667	02/10/2011 19:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104123667	02/10/2011 18:54	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 14:20	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11042SLA026	02/16/2011 13:58	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 10:26	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11042SLA026	02/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34C	02/14/2011 14:59	Elizabeth J Marin	27.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104123667	02/10/2011 18:53	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 12:53	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 21:30	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460014A	02/21/2011 22:02	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460014A	02/15/2011 18:20	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 15:27	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 19:58	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 18:22	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/16/2011 22:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
07914	Boron	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
01654	Iron	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
01656	Lithium	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
06958	Manganese	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
07968	Strontium	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
06969	Tin	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
06970	Titanium	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110425708002	02/14/2011 17:06	John P Hook	1

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Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110421026001D	02/23/2011 19:35	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110421026001C	02/23/2011 19:35	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110421026001B	02/23/2011 19:35	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110421026001A	02/23/2011 19:35	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110425711002	02/15/2011 10:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110425708002	02/13/2011 20:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110421026001	02/13/2011 20:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110425711002	02/13/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 18:45	James S Mathiot	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11052621201B	02/22/2011 18:45	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201B	02/22/2011 22:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 16:46	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 18:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201B	02/22/2011 11:50	William L Hamaker Jr	1

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Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202506
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE079-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11042182101A	02/11/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11042039401A	02/11/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-319-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202509
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7905 SDG#: DE079-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-319-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202509
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7905 SDG#: DE079-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.59	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.4		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	7.2	J	6.4	19		1
10138	Chrysene	218-01-9	2.7		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	1,400		320	960		50
10138	Fluoranthene	206-44-0	3.4		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Phenanthrene	85-01-8	1.2	J	0.71	1.8		1
10138	Pyrene	129-00-0	3.8		0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	2.2	U	2.2	2.2		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	170	U	170	270		1
10401	MCPP (Mecoprop)	93-65-2	340		80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-319-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202509
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7905 SDG#: DE079-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.080	U	0.080	0.36		1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.36		1
01363	p,p-DDT	50-29-3	0.42	U	0.42	0.42		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.54	U	0.54	0.54		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.053	U	0.053	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.1		2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.1		2
10225	Aroclor 5460	11126-42-4	2.1	U	2.1	7.1		2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.6		2
10225	PCB-1221	11104-28-2	0.71	U	0.71	3.6		2
10225	PCB-1232	11141-16-5	0.71	U	0.71	3.6		2
10225	PCB-1242	53469-21-9	0.71	U	0.71	3.6		2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.6		2
10225	PCB-1254	11097-69-1	47		0.71	3.6		2
10225	PCB-1260	11096-82-5	0.83	U	0.83	3.6		2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.6		2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.6		2
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-319-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202509
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7905 SDG#: DE079-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.22	20.7		1
07914	Boron	7440-42-8	2.23	J	0.923	5.19		1
01650	Calcium	7440-70-2	5,710		6.36	20.7		1
01654	Iron	7439-89-6	18,200		4.89	20.7		1
01656	Lithium	7439-93-2	15.9		0.23	2.1		1
01657	Magnesium	7439-95-4	3,760		2.63	10.4		1
06958	Manganese	7439-96-5	229		0.0809	0.519		1
10145	Phosphorus	7723-14-0	570		0.581	10.4		1
01662	Potassium	7440-09-7	2,560		18.7	51.9		1
01667	Sodium	7440-23-5	208		38.7	104		1
07968	Strontium	7440-24-6	33.5		0.0643	0.519		1
06969	Tin	7440-31-5	2.21	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,000		0.394	1.04		1
10146	Zirconium	7440-67-7	2.67	J	0.871	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0622	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.81		0.0830	0.415		2
06126	Barium	7440-39-3	87.8		0.112	0.415		2
06127	Beryllium	7440-41-7	0.354		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.296		0.0415	0.104		2
06131	Chromium	7440-47-3	17.1		0.124	0.415		2
06132	Cobalt	7440-48-4	4.70		0.0207	0.104		2
06133	Copper	7440-50-8	9.37		0.0685	0.415		2
06135	Lead	7439-92-1	4.27		0.0108	0.207		2
06138	Molybdenum	7439-98-7	1.04		0.0519	0.104		2
06139	Nickel	7440-02-0	10.3		0.104	0.415		2
06141	Selenium	7782-49-2	0.301	J	0.0415	0.415		2
06142	Silver	7440-22-4	0.0352	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.176		0.0311	0.104		2
06148	Vanadium	7440-62-2	33.4		0.0228	0.104		2
06149	Zinc	7440-66-6	54.9		0.581	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0198	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.21	1.1		1

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Sample Description: **SL-319-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202509
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7905 SDG#: DE079-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	393	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.41	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11042SLA026	02/16/2011 14:27	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 11:03	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 11:40	Joseph M Gambler	50
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11042SLA026	02/11/2011 17:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 17:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 08:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460014A	02/21/2011 22:20	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460014A	02/15/2011 18:20	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
07914	Boron	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
01654	Iron	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1

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Sample Description: SL-319-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202509
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7905 SDG#: DE079-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
06969	Tin	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110425708002	02/14/2011 17:17	John P Hook	1
06124	Antimony	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110421026001D	02/23/2011 19:38	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110421026001C	02/23/2011 19:38	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110421026001B	02/23/2011 19:38	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110421026001A	02/23/2011 19:38	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110425711002	02/15/2011 10:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110425708002	02/13/2011 20:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110421026001	02/13/2011 20:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110425711002	02/13/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 18:59	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201B	02/22/2011 22:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 16:58	Carrie E Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-319-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202509
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7905 SDG#: DE079-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201B	02/22/2011 11:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11042182101A	02/11/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11042039401A	02/11/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-323-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202511
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7907 SDG#: DE079-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Anthracene	120-12-7	26	J	17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	83	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	64	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	87	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	87	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	42	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Chrysene	218-01-9	77	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	240		17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	64	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1

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Sample Description: SL-323-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202511
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7907 SDG#: DE079-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenanthrene	85-01-8	110	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	160	J	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	7.0	U	7.0	17		10
10138	Acenaphthylene	208-96-8	3.5	U	3.5	17		10
10138	Butylbenzylphthalate	85-68-7	130	J	63	190		10
10138	Dibenz(a,h)anthracene	53-70-3	7.0	U	7.0	17		10
10138	Dimethylphthalate	131-11-3	520		63	190		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	120	J	63	190		10
10138	Fluorene	86-73-7	7.0	U	7.0	17		10
10138	1-Methylnaphthalene	90-12-0	7.0	U	7.0	17		10
10138	2-Methylnaphthalene	91-57-6	7.0	U	7.0	17		10
10138	Naphthalene	91-20-3	7.0	U	7.0	17		10
10138	N-Nitrosodimethylamine	62-75-9	7.0	U	7.0	17		10
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.3 ug/kg. The blank value was not subtracted from the analytical result.							
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	12	U	12	12		1
10401	2,4-DB	94-82-6	3.3		0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	140	U	140	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1
	Due to interfering peaks on the chromatogram, the values reported for dalapon and MCPA represent the lowest reporting limits attainable.							

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Sample Description: SL-323-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202511
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7907 SDG#: DE079-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.35	U	0.35	0.87		5
01363	Alpha BHC	319-84-6	0.18	U	0.18	0.87		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.87		5
01363	Gamma BHC - Lindane	58-89-9	0.18	U	0.18	0.87		5
01363	Chlordane	57-74-9	4.2	U	4.2	18		5
01363	p,p-DDD	72-54-8	0.35	U	0.35	1.8		5
01363	p,p-DDE	72-55-9	1.3	U	1.3	1.8		5
01363	p,p-DDT	50-29-3	3.0	U	3.0	3.0		5
01363	Delta BHC	319-86-8	0.19	U	0.19	0.87		5
01363	Dieldrin	60-57-1	3.1	U	3.1	3.1		5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.87		5
01363	Endosulfan II	33213-65-9	0.35	U	0.35	1.8		5
01363	Endosulfan Sulfate	1031-07-8	0.35	U	0.35	1.8		5
01363	Endrin	72-20-8	0.35	U	0.35	1.8		5
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	1.8		5
01363	Endrin Ketone	53494-70-5	1.9	U	1.9	1.9		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.87		5
01363	Heptachlor Epoxide	1024-57-3	0.32	U	0.32	0.87		5
01363	Methoxychlor	72-43-5	1.8	U	1.8	8.7		5
01363	Mirex	2385-85-5	1.4	U	1.4	1.8		5
01363	Toxaphene	8001-35-2	12	U	12	35		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.69	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.86	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,300		5.16	20.5		1

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Sample Description: **SL-323-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202511
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7907 SDG#: DE079-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	11.0		0.914	5.13		1
01650	Calcium	7440-70-2	8,220		6.29	20.5		1
01654	Iron	7439-89-6	19,100		4.84	20.5		1
01656	Lithium	7439-93-2	21.9		0.23	2.1		1
01657	Magnesium	7439-95-4	4,440		2.61	10.3		1
06958	Manganese	7439-96-5	263		0.0801	0.513		1
10145	Phosphorus	7723-14-0	502		0.575	10.3		1
01662	Potassium	7440-09-7	2,900		18.5	51.3		1
01667	Sodium	7440-23-5	1,810		38.3	103		1
07968	Strontium	7440-24-6	32.1		0.0636	0.513		1
06969	Tin	7440-31-5	2.48	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,080		0.390	1.03		1
10146	Zirconium	7440-67-7	2.36	J	0.862	5.13		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0986	J	0.0604	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.74		0.0805	0.403		2
06126	Barium	7440-39-3	85.2		0.109	0.403		2
06127	Beryllium	7440-41-7	0.370		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.518		0.0403	0.101		2
06131	Chromium	7440-47-3	17.8		0.121	0.403		2
06132	Cobalt	7440-48-4	5.27		0.0201	0.101		2
06133	Copper	7440-50-8	11.7		0.0665	0.403		2
06135	Lead	7439-92-1	7.14		0.0105	0.201		2
06138	Molybdenum	7439-98-7	0.659		0.0503	0.101		2
06139	Nickel	7440-02-0	11.3		0.101	0.403		2
06141	Selenium	7782-49-2	0.103	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.0594	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.223		0.0302	0.101		2
06148	Vanadium	7440-62-2	33.2		0.0222	0.101		2
06149	Zinc	7440-66-6	211		1.41	7.55		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0124	J	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.21	1.0		1

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Sample Description: **SL-323-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202511
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7907 SDG#: DE079-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	392	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.88	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11042SLA026	02/16/2011 14:57	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 12:18	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11042SLA026	02/11/2011 17:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110450011A	02/16/2011 00:11	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 16:38	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460014A	02/21/2011 22:39	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460014A	02/15/2011 18:20	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110450011A	02/15/2011 02:35	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
07914	Boron	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
01654	Iron	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
01656	Lithium	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1

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Sample Description: SL-323-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202511
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E7907 SDG#: DE079-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
06969	Tin	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110425708002	02/14/2011 17:21	John P Hook	1
06124	Antimony	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110421026001D	02/23/2011 19:47	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110421026001C	02/23/2011 19:47	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110421026001B	02/23/2011 19:47	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110421026001A	02/23/2011 19:47	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110421026001A	02/24/2011 08:22	David K Beck	5
00159	Mercury	SW-846 7471A	1	110425711002	02/15/2011 10:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110425708002	02/13/2011 20:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110421026001	02/13/2011 20:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110425711002	02/13/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 19:14	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201B	02/22/2011 23:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 17:11	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-323-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202511
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7907 SDG#: DE079-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201B	02/22/2011 11:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11042182101A	02/11/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11042039401A	02/11/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-324-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202512
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7908 SDG#: DE079-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U	710	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-324-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202512
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7908 SDG#: DE079-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.1	U	7.1	18		10
10138	Acenaphthylene	208-96-8	3.6	U	3.6	18		10
10138	Anthracene	120-12-7	3.6	U	3.6	18		10
10138	Benzo(a)anthracene	56-55-3	7.1	U	7.1	18		10
10138	Benzo(a)pyrene	50-32-8	7.1	U	7.1	18		10
10138	Benzo(b)fluoranthene	205-99-2	8.3	J	7.1	18		10
10138	Benzo(g,h,i)perylene	191-24-2	7.1	U	7.1	18		10
10138	Benzo(k)fluoranthene	207-08-9	7.1	U	7.1	18		10
10138	Chrysene	218-01-9	3.6	J	3.6	18		10
10138	Dibenz(a,h)anthracene	53-70-3	7.1	U	7.1	18		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	400		64	190		10
10138	Fluoranthene	206-44-0	7.1	U	7.1	18		10
10138	Fluorene	86-73-7	7.1	U	7.1	18		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.1	U	7.1	18		10
10138	1-Methylnaphthalene	90-12-0	7.1	U	7.1	18		10
10138	2-Methylnaphthalene	91-57-6	7.1	U	7.1	18		10
10138	Naphthalene	91-20-3	7.1	U	7.1	18		10
10138	N-Nitrosodimethylamine	62-75-9	7.1	U	7.1	18		10
10138	Phenanthrene	85-01-8	7.1	U	7.1	18		10
10138	Pyrene	129-00-0	7.1	U	7.1	18		10
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.3 ug/kg. The blank value was not subtracted from the analytical result.							
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	1.4	J	0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	340	U	340	340		1
10401	MCPP (Mecoprop)	93-65-2	230	U	230	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.11	J	0.080	0.18		1
	When the concentration detected on the primary and confirmation							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-324-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202512
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7908 SDG#: DE079-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	2.1	J	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.48		0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.34	J	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.065	U	0.065	0.18		1
01363	Methoxychlor	72-43-5	1.8		0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of technical chlordane, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	2.4		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.64	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-324-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202512
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7908 SDG#: DE079-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.21	20.7		1
07914	Boron	7440-42-8	4.03	J	0.921	5.18		1
01650	Calcium	7440-70-2	8,840		6.34	20.7		1
01654	Iron	7439-89-6	14,900		4.88	20.7		1
01656	Lithium	7439-93-2	11.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,310		2.63	10.4		1
06958	Manganese	7439-96-5	185		0.0807	0.518		1
10145	Phosphorus	7723-14-0	549		0.580	10.4		1
01662	Potassium	7440-09-7	1,900		18.6	51.8		1
01667	Sodium	7440-23-5	575		38.6	104		1
07968	Strontium	7440-24-6	56.4		0.0642	0.518		1
06969	Tin	7440-31-5	2.02	J	1.04	10.4		1
06970	Titanium	7440-32-6	846		0.393	1.04		1
10146	Zirconium	7440-67-7	4.02	J	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0991	J	0.0621	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.01		0.0828	0.414		2
06126	Barium	7440-39-3	80.6		0.112	0.414		2
06127	Beryllium	7440-41-7	0.354		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.225		0.0414	0.104		2
06131	Chromium	7440-47-3	26.0		0.124	0.414		2
06132	Cobalt	7440-48-4	4.97		0.0207	0.104		2
06133	Copper	7440-50-8	9.33		0.0683	0.414		2
06135	Lead	7439-92-1	4.97		0.0108	0.207		2
06138	Molybdenum	7439-98-7	1.52		0.0518	0.104		2
06139	Nickel	7440-02-0	12.5		0.104	0.414		2
06141	Selenium	7782-49-2	2.43		0.0414	0.414		2
06142	Silver	7440-22-4	0.0454	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.154		0.0311	0.104		2
06148	Vanadium	7440-62-2	35.8		0.0228	0.104		2
06149	Zinc	7440-66-6	48.6		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-324-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202512
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7908 SDG#: DE079-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	402	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	8.46	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	6.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11042SLA026	02/16/2011 15:27	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 12:59	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11042SLA026	02/11/2011 17:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 19:05	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 09:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460014A	02/21/2011 22:57	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460014A	02/15/2011 18:20	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
07914	Boron	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
01654	Iron	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-324-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202512
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7908 SDG#: DE079-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
06969	Tin	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110425708002	02/14/2011 17:25	John P Hook	1
06124	Antimony	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110421026001D	02/23/2011 19:50	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110421026001C	02/23/2011 19:50	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110421026001B	02/23/2011 19:50	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110421026001A	02/23/2011 19:50	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110425711002	02/15/2011 10:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110425708002	02/13/2011 20:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110421026001	02/13/2011 20:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110425711002	02/13/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 19:29	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201B	02/22/2011 23:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11048243201A	02/18/2011 17:17	Carrie E Miller	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-324-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202512
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7908 SDG#: DE079-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201B	02/22/2011 11:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11042182101A	02/11/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11042039401A	02/11/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-326-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202514
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7910 SDG#: DE079-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Anthracene	120-12-7	21	J	18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	60	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	79	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	110	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	73	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	38	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Chrysene	218-01-9	73	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U	700	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	110	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	82	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-326-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202514
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7910 SDG#: DE079-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenanthrene	85-01-8	63	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	110	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	7.0	U	7.0	18		10
10138	Acenaphthylene	208-96-8	3.5	U	3.5	18		10
10138	Butylbenzylphthalate	85-68-7	75	J	63	190		10
10138	Dibenz(a,h)anthracene	53-70-3	7.0	U	7.0	18		10
10138	Dimethylphthalate	131-11-3	250		63	190		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	120	J	63	190		10
10138	Fluorene	86-73-7	7.0	U	7.0	18		10
10138	1-Methylnaphthalene	90-12-0	7.0	U	7.0	18		10
10138	2-Methylnaphthalene	91-57-6	7.0	U	7.0	18		10
10138	Naphthalene	91-20-3	7.0	U	7.0	18		10
10138	N-Nitrosodimethylamine	62-75-9	7.0	U	7.0	18		10
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.3 ug/kg. The blank value was not subtracted from the analytical result.							
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	390		80	260		1
10401	MCPP (Mecoprop)	93-65-2	280		79	260		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.18		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the							

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Sample Description: SL-326-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202514
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7910 SDG#: DE079-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.31	U	0.31	0.31		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	4.5	U	4.5	4.5		1
01363	p,p-DDD	72-54-8	0.26	U	0.26	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	1.2	U	1.2	1.2		1
01363	Delta BHC	319-86-8	0.077	J	0.038	0.18		1
01363	Dieldrin	60-57-1	2.1	U	2.1	2.1		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.36		1
01363	Endrin Ketone	53494-70-5	1.1	U	1.1	1.1		1
01363	Heptachlor	76-44-8	0.13	J	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	1.7	U	1.7	1.7		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	10		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-326-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202514
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7910 SDG#: DE079-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.21	20.7		1
07914	Boron	7440-42-8	8.02		0.922	5.18		1
01650	Calcium	7440-70-2	5,840		6.35	20.7		1
01654	Iron	7439-89-6	18,400		4.88	20.7		1
01656	Lithium	7439-93-2	17.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,940		2.63	10.4		1
06958	Manganese	7439-96-5	257		0.0808	0.518		1
10145	Phosphorus	7723-14-0	468		0.580	10.4		1
01662	Potassium	7440-09-7	2,580		18.7	51.8		1
01667	Sodium	7440-23-5	958		38.7	104		1
07968	Strontium	7440-24-6	29.3		0.0643	0.518		1
06969	Tin	7440-31-5	3.05	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,060		0.394	1.04		1
10146	Zirconium	7440-67-7	2.92	J	0.871	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0622	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.76		0.0829	0.415		2
06126	Barium	7440-39-3	97.3		0.112	0.415		2
06127	Beryllium	7440-41-7	0.427		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.665		0.0415	0.104		2
06131	Chromium	7440-47-3	20.6		0.124	0.415		2
06132	Cobalt	7440-48-4	5.78		0.0207	0.104		2
06133	Copper	7440-50-8	126		0.0684	0.415		2
06135	Lead	7439-92-1	7.64		0.0108	0.207		2
06138	Molybdenum	7439-98-7	1.39		0.0518	0.104		2
06139	Nickel	7440-02-0	14.9		0.104	0.415		2
06141	Selenium	7782-49-2	0.142	J	0.0415	0.415		2
06142	Silver	7440-22-4	0.0632	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.194		0.0311	0.104		2
06148	Vanadium	7440-62-2	37.6		0.0228	0.104		2
06149	Zinc	7440-66-6	250		1.45	7.77		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.162		0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-326-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202514
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7910 SDG#: DE079-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	338	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.42	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11042SLA026	02/16/2011 15:56	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 13:42	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11042SLA026	02/11/2011 17:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 19:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 10:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460014A	02/21/2011 23:16	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460014A	02/15/2011 18:20	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
07914	Boron	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
01654	Iron	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-326-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202514
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7910 SDG#: DE079-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
06969	Tin	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110425708002	02/14/2011 17:29	John P Hook	1
06124	Antimony	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110421026001D	02/23/2011 19:53	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110421026001C	02/23/2011 19:53	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110421026001B	02/23/2011 19:53	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110421026001A	02/23/2011 19:53	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110421026001A	02/24/2011 08:24	David K Beck	5
00159	Mercury	SW-846 7471A	1	110425711002	02/15/2011 10:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110425708002	02/13/2011 20:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110421026001	02/13/2011 20:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110425711002	02/13/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 17:17	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201B	02/23/2011 00:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 18:25	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-326-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202514
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7910 SDG#: DE079-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201B	02/22/2011 11:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11042182101B	02/11/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11042039401B	02/11/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-328-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.9
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.9
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.9
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.9
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.9
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.9
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.9
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.9
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.9
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.9
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.9
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.9
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.9
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.9
06192	Ethylbenzene	100-41-4	0.07	J	0.06	3.9		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.9
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.9
06192	Methylene Chloride	75-09-2	1.1	J	0.23	3.9		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-328-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.9
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.9
06192	Toluene	108-88-3	0.18	J	0.08	3.9		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.9
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.9
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.9
06192	m+p-Xylene	179601-23-1	0.22	J	0.16	3.9		0.9
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	89.5	U	89.5	179		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-328-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U	720	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	7.2	U	7.2	18		10
10138	Acenaphthylene	208-96-8	3.6	U	3.6	18		10
10138	Anthracene	120-12-7	3.6	U	3.6	18		10
10138	Benzo(a)anthracene	56-55-3	7.2	U	7.2	18		10
10138	Benzo(a)pyrene	50-32-8	7.2	U	7.2	18		10
10138	Benzo(b)fluoranthene	205-99-2	7.2	U	7.2	18		10
10138	Benzo(g,h,i)perylene	191-24-2	7.2	U	7.2	18		10

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Sample Description: SL-328-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(k)fluoranthene	207-08-9	7.2	U	7.2	18		10
10138	Chrysene	218-01-9	3.6	U	3.6	18		10
10138	Dibenz(a,h)anthracene	53-70-3	7.2	U	7.2	18		10
10138	Fluoranthene	206-44-0	7.2	U	7.2	18		10
10138	Fluorene	86-73-7	7.2	U	7.2	18		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.2	U	7.2	18		10
10138	1-Methylnaphthalene	90-12-0	7.2	U	7.2	18		10
10138	2-Methylnaphthalene	91-57-6	7.2	U	7.2	18		10
10138	Naphthalene	91-20-3	7.2	U	7.2	18		10
10138	N-Nitrosodimethylamine	62-75-9	7.2	U	7.2	18		10
10138	Phenanthrene	85-01-8	7.2	U	7.2	18		10
10138	Pyrene	129-00-0	8.1	J	7.2	18		10
Reporting limits were raised due to interference from the sample matrix.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.22
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-328-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	2.6		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.86	U	0.86	2.6		2
10199	EFH (C15-C20)	n.a.	4.3		0.86	2.6		2
10199	EFH (C21-C30)	n.a.	27		0.86	2.6		2
10199	EFH (C30 - C40)	n.a.	73		0.86	2.6		2
10199	EFH (C8-C11)	n.a.	0.86	U	0.86	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.6	U	8.6	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-328-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		5.35	21.3		1
07914	Boron	7440-42-8	0.946	U	0.946	5.32		1
01650	Calcium	7440-70-2	3,640		6.52	21.3		1
01654	Iron	7439-89-6	20,100		5.01	21.3		1
01656	Lithium	7439-93-2	24.0		0.23	2.1		1
01657	Magnesium	7439-95-4	4,280		2.70	10.6		1
06958	Manganese	7439-96-5	246		0.0830	0.532		1
10145	Phosphorus	7723-14-0	307		0.596	10.6		1
01662	Potassium	7440-09-7	2,940		19.1	53.2		1
01667	Sodium	7440-23-5	182		39.7	106		1
07968	Strontium	7440-24-6	15.4		0.0659	0.532		1
06969	Tin	7440-31-5	2.73	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,180		0.404	1.06		1
10146	Zirconium	7440-67-7	1.39	J	0.893	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0638	U	0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.13		0.0851	0.425		2
06126	Barium	7440-39-3	67.8		0.115	0.425		2
06127	Beryllium	7440-41-7	0.459		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0765	J	0.0425	0.106		2
06131	Chromium	7440-47-3	14.5		0.128	0.425		2
06132	Cobalt	7440-48-4	4.62		0.0213	0.106		2
06133	Copper	7440-50-8	7.18		0.0702	0.425		2
06135	Lead	7439-92-1	4.76		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.360		0.0532	0.106		2
06139	Nickel	7440-02-0	8.97		0.106	0.425		2
06141	Selenium	7782-49-2	0.114	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0699	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.141		0.0319	0.106		2
06148	Vanadium	7440-62-2	27.3		0.0234	0.106		2
06149	Zinc	7440-66-6	55.8		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0116	J	0.0029	0.101		1

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Sample Description: SL-328-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	J	0.86	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.81	J	0.21	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	323		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-328-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011	18:25	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011	12:04	Jason M Long	24.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104123667	02/10/2011	19:02	Lois E Hiltz	n.a.

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Sample Description: SL-328-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104123667	02/10/2011 19:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104123667	02/10/2011 19:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104123667	02/10/2011 18:59	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 14:39	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11042SLA026	02/16/2011 16:26	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11042SLB026	02/14/2011 14:30	Joseph M Gambler	10
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11042SLB026	02/12/2011 11:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11042SLA026	02/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34C	02/14/2011 15:36	Elizabeth J Marin	24.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104123667	02/10/2011 18:58	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 13:35	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 21:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460014A	02/21/2011 23:34	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460014A	02/15/2011 18:20	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110410019A	02/17/2011 15:52	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 20:13	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110410001A	02/11/2011 18:40	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110410018A	02/17/2011 00:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110410019A	02/11/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110410018A	02/11/2011 08:00	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110410001A	02/11/2011 10:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
07914	Boron	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
01654	Iron	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
06969	Tin	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110425708002	02/14/2011 17:33	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-328-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06125	Arsenic	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06126	Barium	SW-846 6020	1	110421026001D	02/23/2011 19:56	Parker D Lindstrom	2
06127	Beryllium	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06128	Cadmium	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06138	Molybdenum	SW-846 6020	1	110421026001C	02/23/2011 19:56	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110421026001B	02/23/2011 19:56	Parker D Lindstrom	2
06142	Silver	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	110421026001A	02/24/2011 08:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110421026001A	02/23/2011 19:56	Parker D Lindstrom	2
00159	Mercury	SW-846 7471A	1	110425711002	02/15/2011 10:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110425708002	02/13/2011 20:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110421026001	02/13/2011 20:09	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110425711002	02/13/2011 22:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11052621201B	02/22/2011 18:15	James S Mathiot	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11052621201B	02/22/2011 18:15	James S Mathiot	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11053621201B	02/23/2011 00:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11048243201A	02/18/2011 18:38	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11046102201A	02/15/2011 18:03	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11052621201B	02/21/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11053621201B	02/22/2011 11:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11046102201A	02/15/2011 10:10	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-328-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202515
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE079-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11042182101B	02/11/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11042039401B	02/11/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11048243201A	02/17/2011 20:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: TB-020911 Water
SSFL Area IV Collocated Soil Sampling
TB-020911

LLI Sample # WW 6202516
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 08:00

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7912 SDG#: DE079-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-020911 Water**
SSFL Area IV Collocated Soil Sampling
TB-020911

LLI Sample # WW 6202516
LLI Group # 1232547
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 08:00

Submitted: 02/10/2011 09:15
Reported: 03/04/2011 17:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7912 SDG#: DE079-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110451AA	02/14/2011	10:48	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110451AA	02/14/2011	11:11	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110451AA	02/14/2011	10:48	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110451AA	02/14/2011	11:11	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11042B20A	02/11/2011	19:15	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11042B20A	02/11/2011	19:15	Tyler O Griffin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110421AA	Sample number(s): 6202506,6202515									
Acetone	9.5		6.7	8.0	ug/kg	139	136	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	101	98	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	83	84	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	105	102	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96	92	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	90	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	86	84	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	114	110	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	96	95	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	90	88	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	83	80	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	98	69-122	7	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	96	80-120	4	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	82	79	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	113	113	43-146	0	30
Chloroform	0.23	J	0.12	4.0	ug/kg	104	100	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	78	77	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	86	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	90	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	57	50	22-131	15	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91	93	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	100	95	77-120	4	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	95	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	99	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93	92	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88	87	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	91	89	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	62	58	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	97	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	107	103	71-129	4	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	95	73-123	6	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	96	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	100	95	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97	95	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	96	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	97	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100	95	77-120	5	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	84	83	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	87	77-120	0	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	95	93	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	103	96	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	81	75*	78-120	8	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	84	81	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	82	82	45-155	0	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	92	89	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	92	91	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93	92	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	73	72	61-134	0	30
Methylene Chloride	0.54	J	0.24	4.0	ug/kg	97	93	76-124	4	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	96	95	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	94	76-120	4	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100	98	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92	92	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	95	77-120	6	30
Toluene	0.11	J	0.08	4.0	ug/kg	99	96	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	80	81	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	73	73	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	97	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	98	80-120	4	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	95	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97	90	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96	96	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93	93	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93	92	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	80	77	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	98	80-120	4	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	89	87	80-120	2	30
Batch number: E110451AA	Sample number(s): 6202516									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	103	80-123	1	30
Batch number: E110461AA	Sample number(s): 6202506,6202515									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	117	70-130	8	30
Batch number: Y110451AA	Sample number(s): 6202516									
Acetone	6	U	6.	20	ug/l	126	124	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	99	100	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	98	103	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	102	108	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromoform	1	U	1.	5	ug/l	88	94	61-120	7	30
Bromomethane	1	U	1.	5	ug/l	86	81	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	123	126	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	100	97	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	102	99	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	97	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	101	97	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	79	71	49-129	11	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	114	127	56-129	11	30
Chloroform	0.8	U	0.8	5	ug/l	101	101	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	91	84	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	100	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	60	60	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	99	108	56-126	9	30
Dibromochloromethane	1	U	1.	5	ug/l	93	101	80-120	8	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	105	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	98	105	80-120	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	97	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	99	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	76	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	101	102	79-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	111	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	98	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	102	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	101	109	80-120	7	30
2,2-Dichloropropane	1	U	1.	5	ug/l	100	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	100	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	100	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	97	104	79-120	7	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	99	79-120	0	30
Freon 113	2	U	2.	10	ug/l	108	99	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	90	95	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	87	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	115	120	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	99	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	98	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	107	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	107	112	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	101	105	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	96	98	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	100	80-120	5	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	107	71-120	7	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	99	101	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	95	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	93	91	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	106	80-120	6	30
Trichloroethene	1	U	1.	5	ug/l	98	97	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	104	95	64-129	9	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	111	80-120	11	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	100	102	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	100	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	86	65-125	10	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
Batch number: 11042SLA026	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
Aniline	170 U		170.	500	ug/kg	68		34-94		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	64		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	107		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	109		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	94		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	106		67-125		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	94		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	100		77-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	81		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	77		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	76		53-110		
2,4-Dinitrophenol	670	U	670.	1,000	ug/kg	60		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	95		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	91		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Fluoranthene	17	U	17.	170	ug/kg	107		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	98		64-119		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	92		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	93		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	79		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	92		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	109		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	91		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		

Batch number: 11042SLB026 Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	0.67	U	0.67	1.7	ug/kg	99		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	102		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	114		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	107		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	119		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	109		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	122		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	112		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	112		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	117		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	118		79-121		
Bis(2-Ethylhexyl)phthalate	8.3	J	6.0	18	ug/kg	139		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	100		55-118		
Di-n-octylphthalate	6.3	J	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	111		56-121		
Batch number: 11045SLF026	Sample number(s): 6202505-6202506,6202515									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	95		70-130		
Batch number: 11035A34C	Sample number(s): 6202506,6202515									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	69	67-119	1	30
Batch number: 11042B20A	Sample number(s): 6202516									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 110460005A	Sample number(s): 6202505-6202506,6202515									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	123*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	124	119	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	124	118	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	121		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	119		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
HMX	100 U		100.	300	ug/kg	110		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	122*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	100		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	118		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	117		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	120		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	121		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110450008A	Sample number(s): 6202505-6202506,6202515									
17a Formaldehyde by 8315A	600	U	600.	1,500	ug/kg	95		80-126		
Batch number: 110450011A	Sample number(s): 6202511									
2,4-D	1.2	U	1.2	3.6	ug/kg	88		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	62		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	85		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	75		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	13		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	96		60-141		
MCPA	76	U	76.	250	ug/kg	84		34-113		
MCPP (Mecoprop)	88	J	75.	250	ug/kg	81		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	84		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	78		48-138		
Batch number: 110520023A	Sample number(s): 6202505,6202509,6202512,6202514									
2,4-D	1.2	U	1.2	3.6	ug/kg	89		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	29		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	82		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	80		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	19		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	98		60-141		
MCPA	76	U	76.	250	ug/kg	99		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	77		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	83		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	77		48-138		
Batch number: 110470012A	Sample number(s): 6202505									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	102		85-115		
Batch number: 110420002A	Sample number(s): 6202505,6202509,6202511-6202512,6202514									
Aldrin	0.066	U	0.066	0.17	ug/kg	133		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	97		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	135		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	103		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	98		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	70		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	117		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	131		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	95		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	98		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	123		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	127		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	103		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110460014A	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	57	76	36-106	28	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	88		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110410019A	Sample number(s): 6202505-6202506,6202515									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	93		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	68		66-113		
Batch number: 110410001A	Sample number(s): 6202505-6202506,6202515									
Diethylene glycol	6.0	U	6.0	13	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	97		75-125		
Batch number: 110420012A	Sample number(s): 6202505-6202506,6202515									
Ethanol	100	U	100.	500	ug/kg	98		75-112		
Isopropanol	100	U	100.	500	ug/kg	101		75-125		
Methanol	100	U	100.	500	ug/kg	94		75-134		
Batch number: 110410018A	Sample number(s): 6202505-6202506,6202515									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	109		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	109		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 110421026001A	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
Antimony	0.0600	U	0.0600	0.200	mg/kg	102		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	104		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	120		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.247	J	0.0660	0.400	mg/kg	102		80-120		
Lead	0.0188	J	0.0104	0.200	mg/kg	110		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	110		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	105		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		78-122		
Batch number: 110421026001B	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
Selenium	0.0400	U	0.0400	0.400	mg/kg	109		79-122		
Batch number: 110421026001C	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 110421026001D	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Barium	0.108	U	0.108	0.400	mg/kg	106		79-121		
Batch number: 110425708002	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
Aluminum	5.03	U	5.03	20.0	mg/kg	100		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	105		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		81-119		
Phosphorus	0.627	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.39	J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	104		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 110425711002	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
Mercury	0.0028	U	0.0028	0.0993	mg/kg	109		88-123		
Batch number: 11046102201A	Sample number(s): 6202505-6202506,6202515									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11048243201A	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11052621201B	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11053621201B	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11042039401A	Sample number(s): 6202505-6202506,6202509,6202511-6202512									
22a pH by 9045C						100		95-105		
Batch number: 11042039401B	Sample number(s): 6202514-6202515									
22a pH by 9045C						100		95-105		
Batch number: 11042182101A	Sample number(s): 6202505-6202506,6202509,6202511-6202512									
32a OR Potential						100		98-102		
Batch number: 11042182101B	Sample number(s): 6202514-6202515									
32a OR Potential						100		98-102		
Batch number: 11047162401B	Sample number(s): 6202509,6202511-6202512,6202514									
28a Moisture Content by 160.3						100		80-120		
Batch number: 11054162401A	Sample number(s): 6202505-6202506,6202515									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM
Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11042SLA026	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202505								
Aniline	63	67	35-95	6	30				
Anthracene	86	98	75-115	13	30				
Benzidine	30*	36	35-141	19	30				
Benzo(a)anthracene	87	96	65-122	10	30				
Benzo(a)pyrene	92	111	57-126	18	30				
Benzo(b)fluoranthene	99	119	59-125	18	30				
Benzo(g,h,i)perylene	67	83	59-127	20	30				
Benzo(k)fluoranthene	97	112	56-132	14	30				
Benzoic acid	40	41	10-173	3	30				
Benzyl alcohol	88	102	67-115	15	30				
4-Bromophenyl-phenylether	85	96	67-129	12	30				
Butylbenzylphthalate	87	92	73-134	6	30				
Di-n-butylphthalate	92	103	67-123	11	30				
Carbazole	88	101	64-120	14	30				
4-Chloro-3-methylphenol	79	90	76-110	12	30				
4-Chloroaniline	71	83	23-95	15	30				
bis(2-Chloroethoxy)methane	78	94	75-104	19	30				
bis(2-Chloroethyl)ether	78	91	60-116	15	30				
bis(2-Chloroisopropyl)ether	74	85	55-142	13	30				
2-Chloronaphthalene	81	79	50-141	2	30				
2-Chlorophenol	83	95	73-121	14	30				
4-Chlorophenyl-phenylether	88	99	80-109	12	30				
Chrysene	83	93	62-128	12	30				
Dibenzofuran	86	98	71-112	13	30				
1,2-Dichlorobenzene	79	91	66-108	15	30				
1,3-Dichlorobenzene	79	88	63-109	11	30				
1,4-Dichlorobenzene	77	88	70-100	14	30				
3,3'-Dichlorobenzidine	70	74	16-119	5	30				
2,4-Dichlorophenol	79	93	78-117	16	30				
Diethylphthalate	88	98	66-118	11	30				
2,4-Dimethylphenol	78	97	78-110	22	30				
3,5-Dimethylphenol	83	96	70-130	15	30				
Dimethylphthalate	88	100	64-118	13	30				
4,6-Dinitro-2-methylphenol	56	60	24-116	6	30				
2,4-Dinitrophenol	32	30	20-143	5	30				
2,4-Dinitrotoluene	87	100	73-113	14	30				
2,6-Dinitrotoluene	90	99	69-123	10	30				
1,2-Diphenylhydrazine	78	90	71-129	15	30				
bis(2-Ethylhexyl)phthalate	89	95	63-122	6	30				
Fluoranthene	95	113*	73-112	17	30				
Hexachlorobenzene	88	103	77-114	16	30				
Hexachlorobutadiene	80	96	62-120	18	30				
Hexachlorocyclopentadiene	51	91	10-153	57*	30				
Hexachloroethane	76	86	57-109	13	30				
Indeno(1,2,3-cd)pyrene	72	85	61-126	17	30				
Isophorone	78	93	73-102	18	30				
2-Methylphenol	80	93	75-111	15	30				
4-Methylphenol	80	93	71-111	15	30				
2-Nitroaniline	86	98	67-125	13	30				
3-Nitroaniline	84	98	59-122	15	30				
4-Nitroaniline	78	79	52-112	2	30				
Nitrobenzene	79	91	72-106	13	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitrophenol	83	99	74-115	17	30				
4-Nitrophenol	67	72	54-113	7	30				
N-Nitroso-di-n-propylamine	76	90	60-116	17	30				
N-Nitrosodiphenylamine	80*	91	86-145	13	30				
Di-n-octylphthalate	115	134*	56-126	15	30				
Pentachlorophenol	65	80	28-127	20	30				
Phenanthrene	85	98	65-125	14	30				
Phenol	85	99	58-126	15	30				
Pyrene	84	93	74-126	10	30				
1,2,4-Trichlorobenzene	82	97	72-115	17	30				
2,4,5-Trichlorophenol	85	94	78-109	10	30				
2,4,6-Trichlorophenol	88	99	77-115	12	30				
Batch number: 11042SLB026	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: P201156								
Acenaphthene	83	91	63-105	10	30				
Acenaphthylene	88	98	67-114	10	30				
Anthracene	92	102	60-122	10	30				
Benzo(a)anthracene	100	110	59-128	9	30				
Benzo(a)pyrene	96	105	45-138	9	30				
Benzo(b)fluoranthene	98	106	43-155	7	30				
Benzo(g,h,i)perylene	80	83	33-141	3	30				
Benzo(k)fluoranthene	100	114	42-144	13	30				
Butylbenzylphthalate	201*	131	57-173	42*	30				
Di-n-butylphthalate	86	101	65-148	12	30				
Chrysene	98	107	48-134	9	30				
Dibenz(a,h)anthracene	88	94	22-133	7	30				
Diethylphthalate	101	118	70-136	15	30				
Dimethylphthalate	58*	82	74-118	21	30				
Bis(2-Ethylhexyl)phthalate	105	108	39-167	2	30				
Fluoranthene	94	102	26-166	8	30				
Fluorene	88	98	66-122	11	30				
Indeno(1,2,3-cd)pyrene	88	93	21-143	5	30				
1-Methylnaphthalene	84	96	72-123	14	30				
2-Methylnaphthalene	76	86	64-103	12	30				
Naphthalene	79	95	61-102	18	30				
N-Nitrosodimethylamine	84	98	48-113	15	30				
Di-n-octylphthalate	116	109	40-192	5	30				
Phenanthrene	87	96	12-165	9	30				
Pyrene	94	102	15-153	8	30				
Batch number: 11045SLF026	Sample number(s): 6202505-6202506,6202515 UNSPK: 6202505								
N-Nitrosodimethylamine	90	88	70-130	1	30				
Batch number: 11035A34C	Sample number(s): 6202506,6202515 UNSPK: P197571								
9a TPH by EPA 8015B Gas C5-C12	60	60	39-118	6	30				
Batch number: 110460005A	Sample number(s): 6202505-6202506,6202515 UNSPK: P201155								
4-Amino-2,6-Dinitrotoluene	85	105	80-127	21	50				
2-Amino-4,6-Dinitrotoluene	87	106	80-137	20	50				
1,3-Dinitrobenzene	91	107	38-166	16	50				
2,4-Dinitrotoluene	89	105	80-131	17	50				
2,6-Dinitrotoluene	91	106	80-127	15	50				

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Quality Control Summary

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Reported: 03/04/11 at 05:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
HMX	75	95	63-128	24	50				
Nitrobenzene	93	104	80-125	11	50				
Nitroglycerin	77*	93	80-120	19	50				
2-Nitrotoluene	92	105	80-122	14	50				
3-Nitrotoluene	92	105	72-119	13	50				
4-Nitrotoluene	91	103	80-125	13	50				
PETN	87	110	80-121	23	50				
RDX	79	99	75-129	22	50				
Tetryl	69	89	55-174	26	50				
1,3,5-Trinitrobenzene	88	105	82-126	17	50				
2,4,6-Trinitrotoluene	87	105	82-130	19	50				
Batch number: 110450008A	Sample number(s): 6202505-6202506,6202515 UNSPK: P201155								
17a Formaldehyde by 8315A	98	93	80-120	5	50				
Batch number: 110450011A	Sample number(s): 6202511 UNSPK: P203555								
2,4-D	122	109	28-161	12	35				
Dalapon	39	31	12-86	22	50				
2,4-DB	84	73	20-170	11	50				
Dicamba	80	83	33-120	4	50				
Dinoseb	16	20	1-44	20	35				
2,4-DP (Dichlorprop)	99	100	55-141	0	50				
MCPA	93	78	31-184	15	50				
MCPP (Mecoprop)	91	80	16-174	12	50				
2,4,5-T	90	86	25-132	5	35				
2,4,5-TP	73	76	10-183	3	35				
Batch number: 110520023A	Sample number(s): 6202505,6202509,6202512,6202514 UNSPK: P201161								
2,4-D	98	83	28-161	16	35				
Dalapon	39	41	12-86	6	50				
2,4-DB	112	131	20-170	16	50				
Dicamba	59	93	33-120	44	50				
Dinoseb	17	19	1-44	8	35				
2,4-DP (Dichlorprop)	100	101	55-141	1	50				
MCPA	76	72	31-184	4	50				
MCPP (Mecoprop)	95	124	16-174	27	50				
2,4,5-T	83	57	25-132	38*	35				
2,4,5-TP	76	78	10-183	3	35				
Batch number: 110470012A	Sample number(s): 6202505 UNSPK: P206985								
6a Perchlorate EPA 6850	107	107	80-120	0	20				
Batch number: 110420002A	Sample number(s): 6202505,6202509,6202511-6202512,6202514 UNSPK: P203555								
Aldrin	115	118	16-126	3	50				
Alpha BHC	64	64	10-129	0	50				
Beta BHC	84	78	14-147	8	50				
Gamma BHC - Lindane	76	73	10-140	4	50				
p,p-DDD	87	85	16-163	2	50				
p,p-DDE	108	112	18-161	4	50				
p,p-DDT	102	131	10-176	25	50				
Delta BHC	75	78	23-140	4	50				
Dieldrin	73	79	19-154	8	50				
Endosulfan I	48	52	16-137	6	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan II	80	92	28-154	14	50				
Endosulfan Sulfate	94	94	21-160	0	50				
Endrin	70	76	11-149	8	50				
Endrin Aldehyde	58	64	10-148	10	35				
Endrin Ketone	108	98	22-165	9	50				
Heptachlor	76	76	13-126	0	50				
Heptachlor Epoxide	100	121	13-157	19	50				
Methoxychlor	79	59	32-147	29	50				
Batch number: 110460014A	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202505								
PCB-1016	73	71	29-146	3	50				
PCB-1260	79	78	39-149	2	50				
Batch number: 110410019A	Sample number(s): 6202505-6202506,6202515 UNSPK: P201155								
EFH (C12-C14)	68	69	49-123	2	20				
EFH (C15-C20)	63	67	49-123	4	20				
EFH (C21-C30)	106	102	49-123	3	20				
EFH (C30 - C40)	97	98	49-123	0	20				
EFH (C8-C11)	19*	20*	49-123	6	20				
Batch number: 110410001A	Sample number(s): 6202505-6202506,6202515 UNSPK: P201155								
Diethylene glycol	82	71	59-109	14	20				
Ethylene glycol	90	86	63-107	5	20				
Propylene glycol	87	84	63-107	3	20				
Batch number: 110420012A	Sample number(s): 6202505-6202506,6202515 UNSPK: P203545								
Ethanol	91	93	24-143	2	20				
Isopropanol	93	94	75-125	1	20				
Methanol	89	95	45-136	7	20				
Batch number: 110410018A	Sample number(s): 6202505-6202506,6202515 UNSPK: P201155								
m-Terphenyl	90	90	75-125	1	20				
o-Terphenyl	91	92	75-125	1	20				
p-Terphenyl	84	84	75-125	1	20				
Batch number: 110421026001A	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202505 BKG: 6202505								
Antimony	52*	52*	75-125	1	20	0.127 J	0.135 J	7 (1)	20
Arsenic	123	89	75-125	11	20	4.04	4.10	1	20
Beryllium	105	99	75-125	4	20	0.301	0.371	21* (1)	20
Cadmium	114	105	75-125	6	20	0.134	0.147	9 (1)	20
Chromium	166*	118	75-125	14	20	19.4	23.0	17	20
Cobalt	98	101	75-125	4	20	6.35	4.95	25*	20
Copper	110	100	75-125	5	20	8.00	8.36	4	20
Lead	129*	120	75-125	3	20	3.48	4.35	22*	20
Nickel	107	96	75-125	5	20	11.5	11.1	3	20
Silver	101	104	75-125	4	20	0.0246 J	0.0412 J	50* (1)	20
Thallium	95	90	75-125	2	20	0.199	0.188	6 (1)	20
Vanadium	86	45*	75-125	9	20	38.3	33.8	12	20
Zinc	88 (2)	123 (2)	75-125	6	20	46.8	44.5	5	20
Batch number: 110421026001B	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK:								

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
	6202505 BKG: 6202505								
Selenium	98	100	75-125	2	20	0.194 J	0.120 J	47* (1)	20
Batch number: 110421026001C	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202505 BKG: 6202505								
Molybdenum	94	93	75-125	0	20	1.56	1.03	41*	20
Batch number: 110421026001D	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202505 BKG: 6202505								
Barium	-3133 (2)	-3018 (2)	75-125	11	20	382	70.5	138*	20
Batch number: 110425708002	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202505 BKG: 6202505								
Aluminum	1617 (2)	1550 (2)	75-125	1	20	12,600	13,000	3	20
Boron	99	100	84-115	1	20	2.02 J	1.51 J	29* (1)	20
Calcium	-699 (2)	-574 (2)	75-125	11	20	7,150	3,980	57*	20
Iron	859 (2)	866 (2)	75-125	0	20	15,200	16,400	7	20
Lithium	100	102	82-114	1	20	13.1	14.5	10	20
Magnesium	226 (2)	245 (2)	75-125	1	20	3,250	3,460	6	20
Manganese	86 (2)	84 (2)	75-125	0	20	208	228	9	20
Phosphorus	-236 (2)	-241 (2)	75-125	1	20	730	456	46*	20
Potassium	127*	123	75-125	1	20	2,000	2,100	5	20
Sodium	98	101	75-125	3	20	116	110	6 (1)	20
Strontium	96	97	75-115	0	20	36.9	33.4	10	20
Tin	93	94	80-110	0	20	2.15 J	2.05 J	5 (1)	20
Titanium	265 (2)	305 (2)	75-125	3	20	878	940	7	20
Zirconium	97	99	75-125	1	20	3.44 J	3.88 J	12 (1)	20
Batch number: 110425711002	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202505 BKG: 6202505								
Mercury	113	108	80-120	5	20	0.0028 U	0.0072 J	200* (1)	20
Batch number: 11046102201A	Sample number(s): 6202505-6202506,6202515 UNSPK: P201155 BKG: P201155								
21a Cyanide by 9012B	109		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11048243201A	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202512 BKG: 6202512								
3a Cr VI by EPA 7199	95		75-125			0.22 J	0.48 J	76* (1)	20
Batch number: 11052621201B	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: P201159 BKG: P201159								
11a Anions by 300.0 - Fluoride	127*		80-120			1.9	1.9	1 (1)	20
11a Anions by 300.0 - Nitrate	106		80-120			4.5	4.1	10 (1)	20
Batch number: 11053621201B	Sample number(s): 6202505-6202506,6202509,6202511-6202512,6202514-6202515 UNSPK: 6202505 BKG: 6202505								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11042039401A	Sample number(s): 6202505-6202506,6202509,6202511-6202512 BKG: 6202505								

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
22a pH by 9045C						6.84	6.86	0	1
Batch number: 11042039401B	Sample number(s): 6202514-6202515 BKG: 6202514								
22a pH by 9045C						7.42	7.40	0	1
Batch number: 11042182101A	Sample number(s): 6202505-6202506,6202509,6202511-6202512 BKG: 6202505								
32a OR Potential						297	297	0	6
Batch number: 11042182101B	Sample number(s): 6202514-6202515 BKG: 6202514								
32a OR Potential						338	339	0	6
Batch number: 11047162401B	Sample number(s): 6202509,6202511-6202512,6202514 BKG: P200286								
28a Moisture Content by 160.3						8.9	8.9	0	20
Batch number: 11054162401A	Sample number(s): 6202505-6202506,6202515 BKG: P201155								
28a Moisture Content by 160.3						10.5	11.7	11	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6202506	110	107	103	87
6202515	111	106	103	86
Blank	112	111	98	89
LCS	103	107	106	107
LCSD	102	107	106	105
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110451AA

	Toluene-d8
6202516	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110461AA

	Toluene-d8
6202506	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Surrogate Quality Control

6202515	94
Blank	96
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6202516	100	102	104	98
Blank	99	101	103	98
LCS	100	103	104	101
LCSD	100	101	105	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11042SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6202505	89	99	101	86	88	82
6202506	87	90	104	82	84	88
6202509	93	100	108	89	94	90
6202511	86	92	89	82	85	77
6202512	92	94	105	87	89	96
6202514	85	95	88	85	84	92
6202515	94	98	104	89	97	106
Blank	92	96	97	88	82	87
LCS	91	94	103	86	86	84
MS	81	83	97	74	81	79
MSD	94	99	109	86	92	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11042SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6202505	97	86	105
6202506	107	89	113
6202509	98	86	107
6202511	82	75	95
6202512	72	68	91
6202514	74	67	94
6202515	78	74	97
Blank	105	101	117
LCS	104	92	105
MS	87	76	90
MSD	102	85	100
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11045SLF026

	N-Nitrosodimethylamine-

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Surrogate Quality Control

	d6
6202505	482*
6202506	419*
6202515	434*
Blank	87
LCS	76
MS	477*
MSD	505*
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11035A34C

	Trifluorotoluene-F
6202506	84
6202515	83
Blank	90
LCS	87
LCSD	86
MS	72
MSD	70
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11042B20A

	Trifluorotoluene-F
6202516	78
Blank	76
LCS	120
LCSD	120
Limits:	63-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 110420002A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6202505	69	93
6202509	74	54
6202511	85	166*
6202512	74	45
6202514	43*	322*
Blank	87	107
LCS	83	109
MS	65	79
MSD	62	51
Limits:	50-130	20-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110450008A

	Butyraldehyde

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Surrogate Quality Control

6202505	89
6202506	89
6202515	93
Blank	105
LCS	98
MS	106
MSD	100
Limits:	64-126

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110450011A

	2,4-Dichlorophenylacetic acid
6202511	121
Blank	83
LCS	86
MS	121
MSD	112
Limits:	36-156

Analysis Name: 20a Energetics by 8330A
Batch number: 110460005A

	2-Nitro-m-xylene
6202505	119
6202506	111
6202515	125
Blank	124
LCS	133
LCSD	125
MS	109
MSD	124
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110460014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6202505	89	79
6202506	96	94
6202509	80	73
6202511	96	101
6202512	82	78
6202514	67	57
6202515	93	82
Blank	103	96
LCS	95	90
LCSD	99	99
MS	87	86
MSD	85	77
Limits:	53-139	45-120

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Surrogate Quality Control

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110520023A

	2,4-Dichlorophenylacetic acid
6202505	109
6202509	100
6202512	109
6202514	119
Blank	85
LCS	94
MS	108
MSD	112
Limits:	36-156

Analysis Name: 27a Glycols by 8015B
Batch number: 110410001A

	Tetramethylene glycol
6202505	63
6202506	63
6202515	60
Blank	87
LCS	91
MS	86
MSD	82
Limits:	29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110410018A

	n-Triacontane-d62
6202505	104
6202506	108
6202515	117
Blank	123
LCS	117
MS	102
MSD	104
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110410019A

	Chlorobenzene	Orthoterphenyl
6202505	75	90
6202506	71	96
6202515	71	93
Blank	71	89
LCS	78	89
MS	64	83
MSD	61	80
Limits:	37-125	47-145

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232547
Reported: 03/04/11 at 05:13 PM

Surrogate Quality Control

Analysis Name: 25a Alcohols by 8015B
Batch number: 110420012A

	Acetone
6202505	95
6202506	95
6202515	92
Blank	105
LCS	104
MS	94
MSD	95
Limits:	42-138

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A#13013 Grp#1232547 Sample# G202505-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	*pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-314-SA5B-SS-0.0-0.5	2.09.2011	0908	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-314-SA5B-SS-0.0-0.5	2.09.2011	0908	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-316-SA5B-SB-4.5-5.5	2.09.2011	1143	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-316-SA5B-SB-5.0	2.09.2011	1137	SOIL	NONE	5-Encores											X	X	X											
~~SL-317-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~0930~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~		~~X~~	~~X~~														
~~SL-317-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~0930~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			~~X~~	~~X~~																				
~~SL-318-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1050~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~		~~X~~	~~X~~														
~~SL-318-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	1050	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			~~X~~	~~X~~																				
SL-319-SA5B-SS-0.0-0.5	2.09.2011	1025	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-319-SA5B-SS-0.0-0.5	2.09.2011	1025	SOIL	NONE	1-6-inch sleeve			X	X																				
~~SL-320-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1400~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~		~~X~~	~~X~~														
~~SL-320-SA5B-SS-0.0-0.5~~	~~3.09.2011~~	~~1400~~	~~SOIL~~	~~NONE~~	1-6-inch sleeve			X	X																				
SL-323-SA5B-SS-0.0-0.5	2.09.2011	1514	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-323-SA5B-SS-0.0-0.5	2.09.2011	1514	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-324-SA5B-SS-0.0-0.5	2.09.2011	1424	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-324-SA5B-SS-0.0-0.5	2.09.2011	1424	SOIL	NONE	1-6-inch sleeve			X	X																				
~~SL-325-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1447~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~														
~~SL-325-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1447~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			~~X~~	~~X~~																				
SL-326-SA5B-SS-0.0-0.5	2.09.2011	1125	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-326-SA5B-SS-0.0-0.5	2.09.2011	1125	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-328-SA5B-SB-3.5-4.5	2.09.2011	0954	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-328-SA5B-SB-4.0	2.09.2011	0950	SOIL	NONE	5-Encores											X	X	X											
TB-020911	2.09.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 02/09/2011 / 17:00	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 2935. ...2946	No. of coolers = 2

Amended COC

acct# 13013 Cyp# 1232547 Sample# 6202505-16

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Metals EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-314-SA5B-SS-0.0-0.5	2.09.2011	0908	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-314-SA5B-SS-0.0-0.5	2.09.2011	0908	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-316-SA5B-SB-4.5-5.5	2.09.2011	1143	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-316-SA5B-SB-5.0	2.09.2011	1137	SOIL	NONE	5-Encores											X	X	X											
SL-317-SA5B-SS-0.0-0.5	2.09.2011	0930	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-317-SA5B-SS-0.0-0.5	2.09.2011	0930	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-318-SA5B-SS-0.0-0.5	2.09.2011	1050	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-318-SA5B-SS-0.0-0.5	2.09.2011	1050	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-319-SA5B-SS-0.0-0.5	2.09.2011	1025	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-319-SA5B-SS-0.0-0.5	2.09.2011	1025	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-320-SA5B-SS-0.0-0.5	2.09.2011	1400	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-320-SA5B-SS-0.0-0.5	2.09.2011	1400	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-323-SA5B-SS-0.0-0.5	2.09.2011	1514	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-323-SA5B-SS-0.0-0.5	2.09.2011	1514	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-324-SA5B-SS-0.0-0.5	2.09.2011	1424	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-324-SA5B-SS-0.0-0.5	2.09.2011	1424	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-325-SA5B-SS-0.0-0.5	2.09.2011	1447	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X														
SL-325-SA5B-SS-0.0-0.5	2.09.2011	1447	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-326-SA5B-SS-0.0-0.5	2.09.2011	1125	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-326-SA5B-SS-0.0-0.5	2.09.2011	1125	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-328-SA5B-SB-3.5-4.5	2.09.2011	0954	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-328-SA5B-SB-4.0	2.09.2011	0950	SOIL	NONE	5-Encores											X	X	X											
TB-020911	2.09.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time 02/09/2011 / 17:00	Received for Laboratory by: (Signature)	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 2/10/11 0915	Airbill No.(s) 8695 1432 2935. ...2946	No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/10/2011
Group Number: 1232548
SDG: DX049
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-314-SA5B-SS-0.0-0.5 Soil	6202517
SL-316-SA5B-SB-4.5-5.5 Soil	6202518
SL-319-SA5B-SS-0.0-0.5 Soil	6202521
SL-323-SA5B-SS-0.0-0.5 Soil	6202523
SL-324-SA5B-SS-0.0-0.5 Soil	6202524
SL-326-SA5B-SS-0.0-0.5 Soil	6202526
SL-328-SA5B-SB-3.5-4.5 Soil	6202527

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-314-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202517
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4901 SDG#: DX049-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-314-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202517
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4901 SDG#: DX049-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0895	U	0.0895	1.08	1
11031	12378-PeCDD	40321-76-4	0.118	JBQ	0.0814	5.41	1
11031	123478-HxCDD	39227-28-6	0.148	JB	0.104	5.41	1
11031	123678-HxCDD	57653-85-7	0.484	JB	0.103	5.41	1
11031	123789-HxCDD	19408-74-3	0.433	JBQ	0.0981	5.41	1
11031	1234678-HpCDD	35822-46-9	15.3	B	0.215	5.41	1
11031	OCDD	3268-87-9	257	B	0.169	10.8	1
11031	2378-TCDF	51207-31-9	0.0725	U	0.0725	1.08	1
11031	12378-PeCDF	57117-41-6	0.0685	JB	0.0470	5.41	1
11031	23478-PeCDF	57117-31-4	0.0448	U	0.0448	5.41	1
11031	123478-HxCDF	70648-26-9	0.155	JBQ	0.0754	5.41	1
11031	123678-HxCDF	57117-44-9	0.0993	JBQ	0.0654	5.41	1
11031	123789-HxCDF	72918-21-9	0.161	JBQ	0.0756	5.41	1
11031	234678-HxCDF	60851-34-5	0.143	JBQ	0.0626	5.41	1
11031	1234678-HpCDF	67562-39-4	1.66	JBQ	0.0781	5.41	1
11031	1234789-HpCDF	55673-89-7	0.152	JBQ	0.0994	5.41	1
11031	OCDF	39001-02-0	4.73	JB	0.145	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-314-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202517
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4901 SDG#: DX049-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-314-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-314-SA5B-SS-0.0-0.5

LLI Sample # SW 6202517
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:08

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4901 SDG#: DX049-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11056001	03/03/2011 06:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11056001	02/25/2011 13:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202518
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX049-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202518
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX049-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0179 JBQ	0.0127	1.07	1
11031	12378-PeCDD	40321-76-4	0.0549 JBQ	0.0202	5.34	1
11031	123478-HxCDD	39227-28-6	0.0448 U	0.0448	5.34	1
11031	123678-HxCDD	57653-85-7	0.365 JB	0.0458	5.34	1
11031	123789-HxCDD	19408-74-3	0.248 JB	0.0440	5.34	1
11031	1234678-HpCDD	35822-46-9	9.15 B	0.0430	5.34	1
11031	OCDD	3268-87-9	142 B	0.0236	10.7	1
11031	2378-TCDF	51207-31-9	0.0241 JBQ	0.0178	1.07	1
11031	12378-PeCDF	57117-41-6	0.0717 JBQ	0.0125	5.34	1
11031	23478-PeCDF	57117-31-4	0.107 JBQ	0.0125	5.34	1
11031	123478-HxCDF	70648-26-9	0.0910 JB	0.0257	5.34	1
11031	123678-HxCDF	57117-44-9	0.0637 JB	0.0200	5.34	1
11031	123789-HxCDF	72918-21-9	0.148 JB	0.0221	5.34	1
11031	234678-HxCDF	60851-34-5	0.0611 JBQ	0.0189	5.34	1
11031	1234678-HpCDF	67562-39-4	0.921 JB	0.0199	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0907 JBQ	0.0250	5.34	1
11031	OCDF	39001-02-0	2.69 JB	0.0203	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202518
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX049-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-316-SA5B-SB-4.5-5.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-316-SA5B-SB-4.5-5.5

LLI Sample # SW 6202518
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:43

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX049-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/22/2011 16:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-319-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202521
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4905 SDG#: DX049-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-319-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202521
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4905 SDG#: DX049-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0326	JBQ	0.0130	1.07	1
11031	12378-PeCDD	40321-76-4	0.490	JB	0.0382	5.34	1
11031	123478-HxCDD	39227-28-6	0.977	J	0.0876	5.34	1
11031	123678-HxCDD	57653-85-7	2.99	JB	0.0913	5.34	1
11031	123789-HxCDD	19408-74-3	2.12	JB	0.0864	5.34	1
11031	1234678-HpCDD	35822-46-9	86.7	B	0.111	5.34	1
11031	OCDD	3268-87-9	1,160	B	0.110	10.7	1
11031	2378-TCDF	51207-31-9	0.0685	JB	0.0249	1.07	1
11031	12378-PeCDF	57117-41-6	0.159	JBQ	0.0137	5.34	1
11031	23478-PeCDF	57117-31-4	0.312	JB	0.0128	5.34	1
11031	123478-HxCDF	70648-26-9	0.733	JB	0.0578	5.34	1
11031	123678-HxCDF	57117-44-9	0.685	JB	0.0464	5.34	1
11031	123789-HxCDF	72918-21-9	0.262	JB	0.0519	5.34	1
11031	234678-HxCDF	60851-34-5	0.922	JB	0.0434	5.34	1
11031	1234678-HpCDF	67562-39-4	13.6	B	0.0386	5.34	1
11031	1234789-HpCDF	55673-89-7	0.800	JB	0.0501	5.34	1
11031	OCDF	39001-02-0	37.6	B	0.0375	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-319-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202521
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4905 SDG#: DX049-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-319-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SS-0.0-0.5

LLI Sample # SW 6202521
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 10:25

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4905 SDG#: DX049-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/22/2011 17:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-323-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202523
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX049-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-323-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202523
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX049-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.230	U	0.230	1.05	1
11031	12378-PeCDD	40321-76-4	0.777	JBQ	0.241	5.24	1
11031	123478-HxCDD	39227-28-6	1.53	JB	0.546	5.24	1
11031	123678-HxCDD	57653-85-7	3.96	JB	0.547	5.24	1
11031	123789-HxCDD	19408-74-3	3.79	JB	0.516	5.24	1
11031	1234678-HpCDD	35822-46-9	129	B	0.540	5.24	1
11031	OCDD	3268-87-9	1,640	B	0.398	10.5	1
11031	2378-TCDF	51207-31-9	0.183	JQ	0.181	1.05	1
11031	12378-PeCDF	57117-41-6	0.378	JBQ	0.122	5.24	1
11031	23478-PeCDF	57117-31-4	0.552	JB	0.115	5.24	1
11031	123478-HxCDF	70648-26-9	1.21	JBQ	0.373	5.24	1
11031	123678-HxCDF	57117-44-9	0.797	JBQ	0.304	5.24	1
11031	123789-HxCDF	72918-21-9	0.679	JB	0.297	5.24	1
11031	234678-HxCDF	60851-34-5	1.34	JB	0.266	5.24	1
11031	1234678-HpCDF	67562-39-4	18.4	B	0.307	5.24	1
11031	1234789-HpCDF	55673-89-7	1.59	JB	0.302	5.24	1
11031	OCDF	39001-02-0	36.8	B	0.256	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-323-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202523
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX049-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-323-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SS-0.0-0.5

LLI Sample # SW 6202523
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 15:14

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX049-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11056001	03/03/2011 06:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11056001	02/25/2011 13:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-324-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202524
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX049-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-324-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202524
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX049-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0720 JBQ	0.0193	1.07	1
11031	12378-PeCDD	40321-76-4	0.790 JB	0.0457	5.33	1
11031	123478-HxCDD	39227-28-6	1.94 J	0.108	5.33	1
11031	123678-HxCDD	57653-85-7	17.3 B	0.102	5.33	1
11031	123789-HxCDD	19408-74-3	6.40 B	0.0955	5.33	1
11031	1234678-HpCDD	35822-46-9	569 B	0.257	5.33	1
11031	OCDD	3268-87-9	13,900 EB	0.360	10.7	1
11031	2378-TCDF	51207-31-9	0.105 JBQ	0.0229	1.07	1
11031	12378-PeCDF	57117-41-6	0.372 JB	0.0211	5.33	1
11031	23478-PeCDF	57117-31-4	0.713 JBQ	0.0199	5.33	1
11031	123478-HxCDF	70648-26-9	2.31 JB	0.126	5.33	1
11031	123678-HxCDF	57117-44-9	0.829 JB	0.0923	5.33	1
11031	123789-HxCDF	72918-21-9	0.692 JB	0.0699	5.33	1
11031	234678-HxCDF	60851-34-5	1.33 JB	0.0617	5.33	1
11031	1234678-HpCDF	67562-39-4	36.7 B	0.103	5.33	1
11031	1234789-HpCDF	55673-89-7	1.92 JB	0.0783	5.33	1
11031	OCDF	39001-02-0	189 B	0.0793	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	78	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-324-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202524
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX049-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-324-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SS-0.0-0.5

LLI Sample # SW 6202524
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 14:24

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX049-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/22/2011 19:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202526
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX049-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-326-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202526
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX049-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.118	JBQ	0.0162	1.06	1
11031	12378-PeCDD	40321-76-4	1.19	JB	0.0589	5.29	1
11031	123478-HxCDD	39227-28-6	2.15	J	0.0983	5.29	1
11031	123678-HxCDD	57653-85-7	4.40	JB	0.0932	5.29	1
11031	123789-HxCDD	19408-74-3	4.87	JB	0.0862	5.29	1
11031	1234678-HpCDD	35822-46-9	123	B	0.136	5.29	1
11031	OCDD	3268-87-9	1,310	B	0.235	10.6	1
11031	2378-TCDF	51207-31-9	0.114	JBQ	0.0251	1.06	1
11031	12378-PeCDF	57117-41-6	0.166	JB	0.0182	5.29	1
11031	23478-PeCDF	57117-31-4	0.374	JB	0.0171	5.29	1
11031	123478-HxCDF	70648-26-9	0.923	JB	0.0975	5.29	1
11031	123678-HxCDF	57117-44-9	1.18	JB	0.0756	5.29	1
11031	123789-HxCDF	72918-21-9	0.358	JB	0.0584	5.29	1
11031	234678-HxCDF	60851-34-5	1.73	JB	0.0512	5.29	1
11031	1234678-HpCDF	67562-39-4	21.3	B	0.0904	5.29	1
11031	1234789-HpCDF	55673-89-7	1.42	JB	0.0683	5.29	1
11031	OCDF	39001-02-0	40.0	B	0.0563	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	51	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-326-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202526
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX049-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SS-0.0-0.5

LLI Sample # SW 6202526
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 11:25

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX049-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/22/2011 20:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401B	02/16/2011 17:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-328-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202527
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX049-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-328-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202527
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX049-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0144	U	0.0144	1.07	1
11031	12378-PeCDD	40321-76-4	0.219	JBQ	0.0273	5.37	1
11031	123478-HxCDD	39227-28-6	0.151	JQ	0.0837	5.37	1
11031	123678-HxCDD	57653-85-7	2.12	JB	0.0737	5.37	1
11031	123789-HxCDD	19408-74-3	1.71	JB	0.0591	5.37	1
11031	1234678-HpCDD	35822-46-9	62.0	B	0.114	5.37	1
11031	OCDD	3268-87-9	746	B	0.0721	10.7	1
11031	2378-TCDF	51207-31-9	0.0266	JBQ	0.0183	1.07	1
11031	12378-PeCDF	57117-41-6	0.0951	JBQ	0.0118	5.37	1
11031	23478-PeCDF	57117-31-4	0.125	JBQ	0.0131	5.37	1
11031	123478-HxCDF	70648-26-9	0.344	JB	0.0893	5.37	1
11031	123678-HxCDF	57117-44-9	0.722	JB	0.0639	5.37	1
11031	123789-HxCDF	72918-21-9	0.212	JB	0.0411	5.37	1
11031	234678-HxCDF	60851-34-5	0.241	JB	0.0333	5.37	1
11031	1234678-HpCDF	67562-39-4	7.19	B	0.0847	5.37	1
11031	1234789-HpCDF	55673-89-7	0.656	JBQ	0.0614	5.37	1
11031	OCDF	39001-02-0	25.5	B	0.0485	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-328-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202527
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX049-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-328-SA5B-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-328-SA5B-SB-3.5-4.5

LLI Sample # SW 6202527
LLI Group # 1232548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/09/2011 09:54

Submitted: 02/10/2011 09:15
Reported: 03/12/2011 13:27

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX049-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/22/2011 21:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401A	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232548
Reported: 03/12/11 at 01:27 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11047162401B	Sample number(s): 6202521,6202523-6202524,6202526								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11054162401A	Sample number(s): 6202517-6202518,6202527								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11048001	Sample number(s): 6202518,6202521,6202524,6202526-6202527								
2378-TCDD	0.0120 J	0.00880	1.00	ng/kg	108		67-158		
12378-PeCDD	0.0287 J	0.00920	5.00	ng/kg	108		70-142		
123478-HxCDD	0.00830 U	0.00830	5.00	ng/kg	106		70-164		
123678-HxCDD	0.0117 J	0.00820	5.00	ng/kg	105		76-134		
123789-HxCDD	0.0162 J	0.00790	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.119 J	0.0109	5.00	ng/kg	104		70-140		
OCDD	0.260 J	0.0138	10.0	ng/kg	103		78-144		
2378-TCDF	0.00997 J	0.00800	1.00	ng/kg	129		75-158		
12378-PeCDF	0.0112 J	0.00520	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0490 J	0.00550	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0263 J	0.0106	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0167 J	0.00710	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0163 J	0.00830	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0117 J	0.00660	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0427 J	0.00600	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0202 J	0.00860	5.00	ng/kg	103		78-138		
OCDF	0.121 J	0.0127	10.0	ng/kg	103		63-170		
Batch number: 11056001	Sample number(s): 6202517,6202523								
2378-TCDD	0.327 U	0.327	1.00	ng/kg	102		67-158		
12378-PeCDD	1.01 J	0.300	5.00	ng/kg	95		70-142		
123478-HxCDD	0.756 J	0.265	5.00	ng/kg	92		70-164		
123678-HxCDD	0.715 J	0.277	5.00	ng/kg	91		76-134		
123789-HxCDD	0.728 J	0.248	5.00	ng/kg	96		64-162		
1234678-HpCDD	1.91 J	0.373	5.00	ng/kg	96		70-140		
OCDD	5.72 J	0.406	10.0	ng/kg	98		78-144		
2378-TCDF	0.218 U	0.218	1.00	ng/kg	106		75-158		
12378-PeCDF	0.694 J	0.149	5.00	ng/kg	98		80-134		
23478-PeCDF	0.579 J	0.146	5.00	ng/kg	95		68-160		
123478-HxCDF	0.719 J	0.202	5.00	ng/kg	97		72-134		
123678-HxCDF	0.595 J	0.192	5.00	ng/kg	95		84-130		
123789-HxCDF	1.24 J	0.216	5.00	ng/kg	98		78-130		
234678-HxCDF	0.739 J	0.192	5.00	ng/kg	97		70-156		
1234678-HpCDF	1.22 J	0.343	5.00	ng/kg	93		82-122		
1234789-HpCDF	1.03 J	0.411	5.00	ng/kg	99		78-138		
OCDF	1.98 J	0.345	10.0	ng/kg	97		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232548
Reported: 03/12/11 at 01:27 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11047162401B	Sample number(s): 6202521,6202523-6202524,6202526					BKG: P200286			
28a Moisture Content by 160.3						8.9	8.9	0	20
Batch number: 11054162401A	Sample number(s): 6202517-6202518,6202527					BKG: P201155			
28a Moisture Content by 160.3						10.5	11.7	11	20
Batch number: 11048001	Sample number(s): 6202518,6202521,6202524,6202526-6202527					UNSPK: P203647			
2378-TCDD	100	106	67-158	5	25				
12378-PeCDD	100	105	70-142	4	25				
123478-HxCDD	99	104	70-164	5	25				
123678-HxCDD	97	105	76-134	7	25				
123789-HxCDD	97	104	64-162	6	25				
1234678-HpCDD	43*	170*	70-140	31*	25				
OCDD	-104 (2)	617 (2)	78-144	34*	25				
2378-TCDF	103	110	75-158	7	25				
12378-PeCDF	97	102	80-134	5	25				
23478-PeCDF	97	101	68-160	4	25				
123478-HxCDF	97	100	72-134	4	25				
123678-HxCDF	97	99	84-130	2	25				
123789-HxCDF	96	100	78-130	3	25				
234678-HxCDF	99	101	70-156	2	25				
1234678-HpCDF	86	109	82-122	15	25				
1234789-HpCDF	96	100	78-138	4	25				
OCDF	90	109	63-170	13	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11048001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6202518	76	80	57	71	78	71
6202521	77	81	63	76	78	74
6202524	77	83	41	52	78	77
6202526	78	82	44	54	77	77
6202527	77	68	29	40	73	67
Blank	73	69	43	62	69	60
MS	87	83	45	58	79	78
MSD	79	78	37	52	78	78
OPR	68	56	27	45	57	46

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232548
Reported: 03/12/11 at 01:27 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6202518	76	70	65	90	76	73
6202521	81	72	67	93	79	78
6202524	53	80	78	88	83	70
6202526	51	76	69	92	83	70
6202527	42	66	52	87	78	54
Blank	71	58	53	92	73	70
MS	57	75	68	95	87	76
MSD	50	73	67	91	79	74
OPR	54	43	39	80	66	58

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6202518	73	75	74	73	81	85
6202521	78	78	78	77	82	85
6202524	75	78	83	88	80	82
6202526	73	79	77	74	81	82
6202527	64	77	75	72	74	80
Blank	73	74	74	71	70	79
MS	79	84	82	78	86	84
MSD	74	81	78	75	83	79
OPR	62	67	66	65	60	71

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11056001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6202517	75	78	64	74	74	71
6202523	65	72	51	62	70	70
Blank	76	79	79	82	80	81
OPR	67	66	59	71	65	58

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6202517	78	70	69	85	79	74
6202523	62	73	73	82	72	68
Blank	79	77	75	83	79	79
OPR	80	55	54	87	69	70

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6202517	77	77	78	76	76	80
6202523	69	70	70	76	69	70

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232548
Reported: 03/12/11 at 01:27 PM

Surrogate Quality Control

Blank	78	80	76	77	79	80
OPR	72	71	69	66	63	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

A#13013 Grp#1232548 Sample# G2202517-27

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs@PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	*Perchlorate EPA 8081A (surface soil only)	*Nitroaromatics EPA 8330A (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS											Amended COC
~~SL-314-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~0906~~	~~SOIL~~	~~NONE~~	~~2-16 oz. jars~~	X	X			X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
~~SL-314-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~0908~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			X	X																				
SL-316-SA5B-SB-4.5-5.5	2.09.2011	1143	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-316-SA5B-SB-5.0	2.09.2011	1137	SOIL	NONE	5-Encores											X	X	X											
~~SL-317-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~0930~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	X	X			X	X	X		X	X														
~~SL-317-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~0930~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			X	X																				
~~SL-318-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1050~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	X	X			X	X	X		X	X														
~~SL-318-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1050~~	~~SOIL~~	NONE	1-6-inch sleeve			X	X																				
SL-319-SA5B-SS-0.0-0.5	2.09.2011	1025	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-319-SA5B-SS-0.0-0.5	2.09.2011	1025	SOIL	NONE	1-6-inch sleeve			X	X																				
~~SL-320-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1400~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	X	X			X	X	X		X	X														
~~SL-320-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1400~~	~~SOIL~~	NONE	~~1-6-inch sleeve~~			X	X																				
SL-323-SA5B-SS-0.0-0.5	2.09.2011	1514	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-323-SA5B-SS-0.0-0.5	2.09.2011	1514	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-324-SA5B-SS-0.0-0.5	2.09.2011	1424	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-324-SA5B-SS-0.0-0.5	2.09.2011	1424	SOIL	NONE	1-6-inch sleeve			X	X																				
~~SL-325-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1447~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	X	X			X	X	X	X	X	X														
~~SL-325-SA5B-SS-0.0-0.5~~	~~2.09.2011~~	~~1447~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			X	X																				
SL-326-SA5B-SS-0.0-0.5	2.09.2011	1125	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-326-SA5B-SS-0.0-0.5	2.09.2011	1125	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-328-SA5B-SB-3.5-4.5	2.09.2011	0954	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-328-SA5B-SB-4.0	2.09.2011	0950	SOIL	NONE	5-Encores											X	X	X											
TB-020911	2.09.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	02/09/2011 / 17:00		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 2935. ...2946	No. of coolers = 2

acct#13013 Cyp# 1232548 Sample# 6202517-27

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	**Hex Chrome EPA 7196*	Perchlorate Confirmation by EPA 8350 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-314-SA5B-SS-0.0-0.5	2.09.2011	0908	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-314-SA5B-SS-0.0-0.5	2.09.2011	0908	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-316-SA5B-SB-4.5-5.5	2.09.2011	1143	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-316-SA5B-SB-5.0	2.09.2011	1137	SOIL	NONE	5-Encores											X	X	X										
SL-317-SA5B-SS-0.0-0.5	2.09.2011	0930	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-317-SA5B-SS-0.0-0.5	2.09.2011	0930	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-318-SA5B-SS-0.0-0.5	2.09.2011	1050	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-318-SA5B-SS-0.0-0.5	2.09.2011	1050	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-319-SA5B-SS-0.0-0.5	2.09.2011	1025	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-319-SA5B-SS-0.0-0.5	2.09.2011	1025	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-320-SA5B-SS-0.0-0.5	2.09.2011	1400	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-320-SA5B-SS-0.0-0.5	2.09.2011	1400	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-323-SA5B-SS-0.0-0.5	2.09.2011	1514	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-323-SA5B-SS-0.0-0.5	2.09.2011	1514	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-324-SA5B-SS-0.0-0.5	2.09.2011	1424	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-324-SA5B-SS-0.0-0.5	2.09.2011	1424	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-325-SA5B-SS-0.0-0.5	2.09.2011	1447	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X													
SL-325-SA5B-SS-0.0-0.5	2.09.2011	1447	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-326-SA5B-SS-0.0-0.5	2.09.2011	1125	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-326-SA5B-SS-0.0-0.5	2.09.2011	1125	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-328-SA5B-SB-3.5-4.5	2.09.2011	0954	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-328-SA5B-SB-4.0	2.09.2011	0950	SOIL	NONE	5-Encores											X	X	X										
TB-020911	2.09.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										TRIP BLANK

Relinquished by: (Signature)

Date/Time: 02/09/2011 / 17:00

Received for Laboratory by: (Signature)

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature)

Date/Time: 2/10/11 0915

Airbill No.(s): 8695 1432 2935. ...2946

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/11/2011
Group Number: 1232736
SDG: DE080
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-024-QC-021011 Soil	6203541
EB31-SA5B-021011 Water	6203542
SL-315-SA5B-SB-3.0-4.0 Soil	6203543
SL-319-SA5B-SB-4.0-5.0 Soil	6203545
SL-321-SA5B-SS-0.0-0.5 Soil	6203546
SL-322-SA5B-SS-0.0-0.5 Soil	6203547
SL-326-SA5B-SB-14.0-15.0 Soil	6203548
SL-326-SA5B-SB-18.5-19.5 Soil	6203549
SL-326-SA5B-SB-9.0-10.0 Soil	6203550
SL-329-SA5B-SS-0.0-0.5 Soil	6203551
SL-330-SA5B-SS-0.0-0.5 Soil	6203552
SL-331-SA5B-SS-0.0-0.5 Soil	6203553
SL-332-SA5B-SS-0.0-0.5 Soil	6203554
SL-333-SA5B-SS-0.0-0.5 Soil	6203555
SL-333-SA5B-SS-0.0-0.5MS Soil	6203556
SL-333-SA5B-SS-0.0-0.5MSD Soil	6203557
SL-333-SA5B-SS-0.0-0.5DUP Soil	6203558
SL-334-SA5B-SS-0.0-0.5 Soil	6203559
SL-335-SA5B-SS-0.0-0.5 Soil	6203560
TB-021011 Water	6203561

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Erik J. Frederiksen
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-024-QC-021011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203541
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE080-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(b)fluoranthene	205-99-2	21	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-024-QC-021011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203541
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE080-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.87	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	J	6.4	19		1
10138	Chrysene	218-01-9	1.5	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.4	19		1
10138	Fluoranthene	206-44-0	1.1	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	7.2	J	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	1.2	J	0.72	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	81	U	81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-024-QC-021011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203541
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE080-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6		1
01363	p,p-DDD	72-54-8	0.079	U	0.079	0.36		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.36		1
01363	p,p-DDT	50-29-3	0.46	U	0.46	0.46		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.39	U	0.39	0.39		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.35	U	0.35	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	8.2		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	2.0		0.35	1.8		1
10225	PCB-1260	11096-82-5	1.2	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	5,740		5.29	21.0		1
07914	Boron	7440-42-8	1.44	J	0.936	5.26		1
01650	Calcium	7440-70-2	2,740		6.45	21.0		1
01654	Iron	7439-89-6	14,900		4.95	21.0		1
01656	Lithium	7439-93-2	7.8		0.23	2.1		1
01657	Magnesium	7439-95-4	2,530		2.67	10.5		1
06958	Manganese	7439-96-5	148		0.0820	0.526		1
10145	Phosphorus	7723-14-0	459		0.589	10.5		1

*=This limit was used in the evaluation of the final result
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Sample Description: **DUP-024-QC-021011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203541
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE080-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	1,600		18.9	52.6		1
01667	Sodium	7440-23-5	249		39.2	105		1
07968	Strontium	7440-24-6	31.4		0.0652	0.526		1
06969	Tin	7440-31-5	1.79	J	1.05	10.5		1
06970	Titanium	7440-32-6	698		0.400	1.05		1
10146	Zirconium	7440-67-7	0.884	U	0.884	5.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.125	J	0.0625	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.04		0.0833	0.417		2
06126	Barium	7440-39-3	64.9		0.113	0.417		2
06127	Beryllium	7440-41-7	0.238		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.174		0.0417	0.104		2
06131	Chromium	7440-47-3	9.70		0.125	0.417		2
06132	Cobalt	7440-48-4	3.70		0.0208	0.104		2
06133	Copper	7440-50-8	10.3		0.0688	0.417		2
06135	Lead	7439-92-1	3.70		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.279		0.0521	0.104		2
06139	Nickel	7440-02-0	5.64		0.104	0.417		2
06141	Selenium	7782-49-2	0.0689	J	0.0417	0.417		2
06142	Silver	7440-22-4	0.0230	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.0996	J	0.0313	0.104		2
06148	Vanadium	7440-62-2	34.8		0.0229	0.104		2
06149	Zinc	7440-66-6	91.4		0.583	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	360		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-024-QC-021011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203541
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE080-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.97	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011	01:46	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/17/2011	20:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011	20:00	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011	12:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011	02:04	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011	13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011	04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011	02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011	16:34	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-024-QC-021011 Soil
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203541
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE080-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 16:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 16:34	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 12:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 16:44	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/16/2011 21:47	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11046182101A	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401A	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB31-SA5B-021011 Water**
SSFL Area IV Collocated Soil Sampling
EB31-SA5B-021011

LLI Sample # WW 6203542
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:15

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE080-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

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Sample Description: **EB31-SA5B-021011 Water**
SSFL Area IV Collocated Soil Sampling
EB31-SA5B-021011

LLI Sample # WW 6203542
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:15

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE080-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.14	J	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.58	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.14	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.23	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.019	J	0.010	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.19	J	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .14 ug/l
butylbenzylphthalate .13 ug/l
bis(2-ethylhexyl)phthalate .19 ug/l
di-n-octylphthalate .18 ug/l
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.53		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1		1
10407	Dicamba	1918-00-9	0.084	U	0.084	0.32		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.53		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.53		1
10407	MCPA	94-74-6	320	U	320	1,100		1
10407	MCPP	93-65-2	53	U	53	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.053		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.053		1

*=This limit was used in the evaluation of the final result
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Sample Description: **EB31-SA5B-021011 Water**
SSFL Area IV Collocated Soil Sampling
EB31-SA5B-021011

LLI Sample # WW 6203542
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:15

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE080-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.011		1
00177	Alpha BHC	319-84-6	0.0032	U	0.0032	0.011		1
00177	Beta BHC	319-85-7	0.0031	U	0.0031	0.011		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.011		1
00177	Chlordane	57-74-9	0.13	U	0.13	0.53		1
00177	p,p-DDD	72-54-8	0.0053	U	0.0053	0.021		1
00177	p,p-DDE	72-55-9	0.0053	U	0.0053	0.021		1
00177	p,p-DDT	50-29-3	0.0053	U	0.0053	0.021		1
00177	Delta BHC	319-86-8	0.0031	U	0.0031	0.011		1
00177	Dieldrin	60-57-1	0.0056	U	0.0056	0.021		1
00177	Endosulfan I	959-98-8	0.0045	U	0.0045	0.011		1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0061	U	0.0061	0.021		1
00177	Endrin	72-20-8	0.0085	U	0.0085	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.11		1
00177	Endrin Ketone	53494-70-5	0.0053	U	0.0053	0.021		1
00177	Heptachlor	76-44-8	0.0027	U	0.0027	0.011		1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.011		1
00177	Methoxychlor	72-43-5	0.032	U	0.032	0.11		1
00177	Mirex	2385-85-5	0.089	U	0.089	0.26		1
00177	Toxaphene	8001-35-2	1.1	U	1.1	3.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.53		1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.53		1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.53		1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.53		1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.53		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.53		1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.53		1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.53		1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.53		1
10227	PCB-1260	11096-82-5	0.11	U	0.11	0.53		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.53		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.53		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1

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Sample Description: **EB31-SA5B-021011 Water**
SSFL Area IV Collocated Soil Sampling
EB31-SA5B-021011

LLI Sample # WW 6203542
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:15

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE080-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: EB31-SA5B-021011 Water
SSFL Area IV Collocated Soil Sampling
EB31-SA5B-021011

LLI Sample # WW 6203542
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:15

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE080-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11045WAC026	02/19/2011 01:00	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11045WAF026	02/15/2011 23:34	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11045WAC026	02/14/2011 17:00	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11045WAF026	02/14/2011 22:15	Elaine F Stoltzfus	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	110470013A	02/18/2011 18:57	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	110470002A	02/18/2011 06:52	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110470003A	02/18/2011 02:28	Andrea J Covey	1
11117	PCB Waters Extraction	SW-846 3510C	1	110470003A	02/16/2011 13:30	Olivia I Santiago	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	110470002A	02/16/2011 13:30	Olivia I Santiago	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	110470013A	02/17/2011 08:15	Kerrie A Freeburn	1
01743	Aluminum	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
08014	Boron	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
01750	Calcium	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
01754	Iron	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
01756	Lithium	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
01757	Magnesium	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
07058	Manganese	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
01762	Potassium	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
01767	Sodium	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
08068	Strontium	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
07069	Tin	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
07070	Titanium	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
10144	Zirconium	SW-846 6010B	1	110451848006	02/15/2011 20:11	John P Hook	1
06024	Antimony	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110456050006D	02/24/2011 12:59	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06035	Lead	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110456050006C	02/24/2011 12:59	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110456050006B	02/24/2011 12:59	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110456050006A	02/24/2011 12:59	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110455713002	02/14/2011 19:23	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110451848006	02/15/2011 09:52	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110456050006	02/15/2011 09:48	Denise K Conners	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB31-SA5B-021011 Water**
SSFL Area IV Collocated Soil Sampling
EB31-SA5B-021011

LLI Sample # WW 6203542
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:15

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE080-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	110455713002	02/14/2011 14:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11047196902C	02/17/2011 05:41	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11059199401A	03/01/2011 11:14	Carrie E Miller	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11042196401A	02/11/2011 10:34	Ashley M Adams	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-315-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE080-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.01
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.01
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.01
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.01
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1.01
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.01
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		1.01
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.01
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.01
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.01
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1.01
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.01
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.01
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.01
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.01
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1.01
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.4		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.01
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.01
06192	Ethylbenzene	100-41-4	0.40	J	0.07	4.4		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.01
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		1.01
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.01
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		1.01
06192	Methylene Chloride	75-09-2	0.97	J	0.26	4.4		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.01

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Sample Description: SL-315-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE080-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1.01
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		1.01
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1.01
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.01
06192	m+p-Xylene	179601-23-1	1.5	J	0.19	4.4		1.01
06192	o-Xylene	95-47-6	0.19	J	0.19	4.4		1.01
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	89.8	U	89.8	180		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

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Sample Description: SL-315-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE080-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	1.6	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1

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Sample Description: **SL-315-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE080-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.5	19		1
10138	Fluoranthene	206-44-0	1.4	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	J	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	2.4		0.72	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.77
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1

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Sample Description: SL-315-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
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Project Name: SSFL Area IV Collocated Soil Sampling

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E8003 SDG#: DE080-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	4.4		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	4.6		0.43	1.3		1
10199	EFH (C21-C30)	n.a.	31		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	42		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-315-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE080-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.31	21.1		1
07914	Boron	7440-42-8	1.79	J	0.940	5.28		1
01650	Calcium	7440-70-2	4,410		6.48	21.1		1
01654	Iron	7439-89-6	19,400		4.98	21.1		1
01656	Lithium	7439-93-2	27.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,870		2.68	10.6		1
06958	Manganese	7439-96-5	249		0.0824	0.528		1
10145	Phosphorus	7723-14-0	464		0.592	10.6		1
01662	Potassium	7440-09-7	2,830		19.0	52.8		1
01667	Sodium	7440-23-5	302		39.4	106		1
07968	Strontium	7440-24-6	16.5		0.0655	0.528		1
06969	Tin	7440-31-5	2.63	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,080		0.401	1.06		1
10146	Zirconium	7440-67-7	0.887	U	0.887	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0788	J	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.02		0.0854	0.427		2
06126	Barium	7440-39-3	86.8		0.115	0.427		2
06127	Beryllium	7440-41-7	0.559		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.129		0.0427	0.107		2
06131	Chromium	7440-47-3	16.7		0.128	0.427		2
06132	Cobalt	7440-48-4	5.34		0.0213	0.107		2
06133	Copper	7440-50-8	7.62		0.0704	0.427		2
06135	Lead	7439-92-1	6.66		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.422		0.0533	0.107		2
06139	Nickel	7440-02-0	9.96		0.107	0.427		2
06141	Selenium	7782-49-2	0.172	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0695	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.326		0.0320	0.107		2
06148	Vanadium	7440-62-2	34.3		0.0235	0.107		2
06149	Zinc	7440-66-6	76.6		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0053	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-315-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE080-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	431		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.38		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-315-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 18:47	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 12:24	Jason M Long	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 13:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104223672	02/11/2011 14:20	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104223672	02/11/2011 14:20	Christopher D Meeks	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-315-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE080-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104223672	02/11/2011 13:42	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 14:57	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 02:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/17/2011 20:37	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34C	02/14/2011 16:12	Elizabeth J Marin	26.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 13:41	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 14:18	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 21:49	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 02:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/19/2011 01:30	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 20:27	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 17:26	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110460012A	02/17/2011 07:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110460012A	02/15/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 16:46	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-315-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203543
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE080-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 12:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202A	02/23/2011 12:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 17:57	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/16/2011 22:00	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 12:25	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11046182101A	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401A	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-319-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE080-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.04
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.04
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.04
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.04
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.04
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		1.04
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.04
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.04
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.04
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		1.04
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.5		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.04
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.04
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.04
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.04
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.04
06192	Ethylbenzene	100-41-4	0.12	J	0.07	4.4		1.04
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.04
06192	Freon 133a	75-88-7	0.56	U	0.56	5.5		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1.04
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.04
06192	Methylene Chloride	75-09-2	0.59	J	0.27	4.4		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.04

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Sample Description: SL-319-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE080-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		1.04
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.04
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.04
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.04
06192	m+p-Xylene	179601-23-1	0.36	J	0.19	4.4		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.04
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.73
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	89.3	U	89.3	179		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

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Sample Description: SL-319-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE080-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	8.9		5
10138	Benzo(a)pyrene	50-32-8	5.1	J	3.6	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	6.5	J	3.6	8.9		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	4.3	J	3.6	8.9		5
10138	Chrysene	218-01-9	7.9	J	1.8	8.9		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	8.9		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	96	J	32	96		5
10138	Fluoranthene	206-44-0	3.7	J	3.6	8.9		5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9		5

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Sample Description: **SL-319-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE080-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	8.9		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	8.9		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	8.9		5
10138	Naphthalene	91-20-3	3.6	U	3.6	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9		5
10138	Di-n-octylphthalate	117-84-0	38	J	32	96		5
10138	Phenanthrene	85-01-8	3.6	U	3.6	8.9		5
10138	Pyrene	129-00-0	5.2	J	3.6	8.9		5

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.35
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-319-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE080-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	4.8		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	2.0		0.43	1.3		1
10199	EFH (C21-C30)	n.a.	14		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	35		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-319-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8005 SDG#: DE080-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.29	21.0		1
07914	Boron	7440-42-8	1.87	J	0.935	5.25		1
01650	Calcium	7440-70-2	4,480		6.44	21.0		1
01654	Iron	7439-89-6	18,600		4.95	21.0		1
01656	Lithium	7439-93-2	22.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,430		2.67	10.5		1
06958	Manganese	7439-96-5	241		0.0820	0.525		1
10145	Phosphorus	7723-14-0	340		0.588	10.5		1
01662	Potassium	7440-09-7	2,820		18.9	52.5		1
01667	Sodium	7440-23-5	253		39.2	105		1
07968	Strontium	7440-24-6	15.4		0.0651	0.525		1
06969	Tin	7440-31-5	2.69	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,010		0.399	1.05		1
10146	Zirconium	7440-67-7	1.07	J	0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0637	U	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.25		0.0849	0.424		2
06126	Barium	7440-39-3	96.1		0.115	0.424		2
06127	Beryllium	7440-41-7	0.583		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.152		0.0424	0.106		2
06131	Chromium	7440-47-3	17.3		0.127	0.424		2
06132	Cobalt	7440-48-4	5.87		0.0212	0.106		2
06133	Copper	7440-50-8	8.71		0.0700	0.424		2
06135	Lead	7439-92-1	6.78		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.479		0.0531	0.106		2
06139	Nickel	7440-02-0	11.2		0.106	0.424		2
06141	Selenium	7782-49-2	0.153	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0767	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.379		0.0318	0.106		2
06148	Vanadium	7440-62-2	36.2		0.0233	0.106		2
06149	Zinc	7440-66-6	83.9		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.7		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-319-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE080-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	423		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.30		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-319-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 19:38	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 13:04	Jason M Long	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 13:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104223672	02/11/2011 14:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104223672	02/11/2011 14:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104223672	02/11/2011 13:49	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 15:52	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 02:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/17/2011 21:40	Gregory J Drahovsky	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-319-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE080-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34C	02/14/2011 17:25	Elizabeth J Marin	27.35
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 13:48	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 17:07	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 22:08	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 03:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/19/2011 01:55	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 20:57	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 19:28	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110460012A	02/17/2011 12:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110460012A	02/15/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 16:53	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-319-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203545
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE080-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 13:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202A	02/23/2011 13:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 18:45	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11045243202A	02/16/2011 22:31	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 12:28	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11046182101A	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401A	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-321-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203546
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8006 SDG#: DE080-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	58	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	45	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	47	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	59	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	27	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Chrysene	218-01-9	70	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	92	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	30	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-321-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203546
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8006 SDG#: DE080-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenanthrene	85-01-8	65	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	100	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32	U	32	95		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	3.2	U	3.2	3.2		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1
	Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-321-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203546
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8006 SDG#: DE080-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	2.5	U	2.5	3.6		1
01363	p,p-DDD	72-54-8	0.097	U	0.097	0.36		1
01363	p,p-DDE	72-55-9	0.33	U	0.33	0.36		1
01363	p,p-DDT	50-29-3	0.89	U	0.89	0.89		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.46	U	0.46	0.46		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.32	U	0.32	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.45	U	0.45	0.45		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.6	U	2.6	8.7		1
10225	Aroclor 5442	12642-23-8	2.6	U	2.6	8.7		1
10225	Aroclor 5460	11126-42-4	4.5	J	2.6	8.7		1
10225	PCB-1016	12674-11-2	0.87	U	0.87	4.5		1
10225	PCB-1221	11104-28-2	0.87	U	0.87	4.5		1
10225	PCB-1232	11141-16-5	0.87	U	0.87	4.5		1
10225	PCB-1242	53469-21-9	0.87	U	0.87	4.5		1
10225	PCB-1248	12672-29-6	0.87	U	0.87	4.5		1
10225	PCB-1254	11097-69-1	1.4	J	0.87	4.5		1
10225	PCB-1260	11096-82-5	1.5	J	1.0	4.5		1
10225	PCB-1262	37324-23-5	0.87	U	0.87	4.5		1
10225	PCB-1268	11100-14-4	0.87	U	0.87	4.5		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-321-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203546
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8006 SDG#: DE080-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.31	21.1		1
07914	Boron	7440-42-8	8.60		0.940	5.28		1
01650	Calcium	7440-70-2	16,300		6.47	21.1		1
01654	Iron	7439-89-6	27,900		4.97	21.1		1
01656	Lithium	7439-93-2	14.2		0.23	2.1		1
01657	Magnesium	7439-95-4	3,680		2.68	10.6		1
06958	Manganese	7439-96-5	322		0.0824	0.528		1
10145	Phosphorus	7723-14-0	617		0.591	10.6		1
01662	Potassium	7440-09-7	2,290		19.0	52.8		1
01667	Sodium	7440-23-5	475		39.4	106		1
07968	Strontium	7440-24-6	61.7		0.0655	0.528		1
06969	Tin	7440-31-5	2.62	J	1.06	10.6		1
06970	Titanium	7440-32-6	809		0.401	1.06		1
10146	Zirconium	7440-67-7	2.75	J	0.887	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0609	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.82		0.0812	0.406		2
06126	Barium	7440-39-3	119		0.110	0.406		2
06127	Beryllium	7440-41-7	0.401		0.0162	0.102		2
06128	Cadmium	7440-43-9	0.337		0.0406	0.102		2
06131	Chromium	7440-47-3	19.5		0.122	0.406		2
06132	Cobalt	7440-48-4	5.29		0.0203	0.102		2
06133	Copper	7440-50-8	14.2		0.0670	0.406		2
06135	Lead	7439-92-1	10.3		0.0106	0.203		2
06138	Molybdenum	7439-98-7	1.59		0.0508	0.102		2
06139	Nickel	7440-02-0	13.1		0.102	0.406		2
06141	Selenium	7782-49-2	1.66		0.0406	0.406		2
06142	Silver	7440-22-4	0.114		0.0122	0.102		2
06145	Thallium	7440-28-0	0.188		0.0305	0.102		2
06148	Vanadium	7440-62-2	37.6		0.0223	0.102		2
06149	Zinc	7440-66-6	87.2		0.569	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0288	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	J	0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-321-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203546
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8006 SDG#: DE080-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	421	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.75	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 03:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/17/2011 22:12	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 20:28	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:13	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 12:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 09:47	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-321-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203546
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8006 SDG#: DE080-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 16:57	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 13:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 19:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/16/2011 22:50	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11046182101A	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401A	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-322-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203547
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8007 SDG#: DE080-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-322-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203547
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8007 SDG#: DE080-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	22		3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	25		3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	37		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	12		3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	20		3.5	8.8		5
10138	Chrysene	218-01-9	30		1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	J	3.5	8.8		5
10138	Dimethylphthalate	131-11-3	39	J	32	95		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32	J	32	95		5
10138	Fluoranthene	206-44-0	28		3.5	8.8		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.2	J	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.8		5
10138	Pyrene	129-00-0	33		3.5	8.8		5
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.							
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	160	U	160	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-322-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203547
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8007 SDG#: DE080-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.22	U	0.22	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.86	U	0.86	0.86		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	1.4	U	1.4	1.4		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.39	U	0.39	0.39		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.093	U	0.093	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.61	U	0.61	0.61		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	4.3		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	2.1		0.35	1.8		1
10225	PCB-1260	11096-82-5	2.5		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.11	20.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-322-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203547
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8007 SDG#: DE080-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.94	J	0.904	5.08		1
01650	Calcium	7440-70-2	5,980		6.22	20.3		1
01654	Iron	7439-89-6	19,100		4.78	20.3		1
01656	Lithium	7439-93-2	25.0		0.22	2.0		1
01657	Magnesium	7439-95-4	4,660		2.58	10.2		1
06958	Manganese	7439-96-5	277		0.0792	0.508		1
10145	Phosphorus	7723-14-0	433		0.569	10.2		1
01662	Potassium	7440-09-7	2,890		18.3	50.8		1
01667	Sodium	7440-23-5	895		37.9	102		1
07968	Strontium	7440-24-6	20.3		0.0630	0.508		1
06969	Tin	7440-31-5	2.73	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,040		0.386	1.02		1
10146	Zirconium	7440-67-7	1.41	J	0.853	5.08		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0634	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0845	0.422		2
06126	Barium	7440-39-3	113		0.114	0.422		2
06127	Beryllium	7440-41-7	0.512		0.0169	0.106		2
06128	Cadmium	7440-43-9	1.07		0.0422	0.106		2
06131	Chromium	7440-47-3	22.7		0.127	0.422		2
06132	Cobalt	7440-48-4	6.16		0.0211	0.106		2
06133	Copper	7440-50-8	10.1		0.0697	0.422		2
06135	Lead	7439-92-1	39.1		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.830		0.0528	0.106		2
06139	Nickel	7440-02-0	12.9		0.106	0.422		2
06141	Selenium	7782-49-2	0.204	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0637	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.334		0.0317	0.106		2
06148	Vanadium	7440-62-2	40.4		0.0232	0.106		2
06149	Zinc	7440-66-6	115		0.591	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0154	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-322-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203547
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8007 SDG#: DE080-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	406	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.33	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 03:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 07:47	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 20:55	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 13:16	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 03:18	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-322-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203547
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8007 SDG#: DE080-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:01	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 13:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 19:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/16/2011 23:02	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11046182101A	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401A	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-326-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8008 SDG#: DE080-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	14		6.6	7.9		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.84
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.84
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.84
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.84
06192	Ethylbenzene	100-41-4	0.07	J	0.06	3.9		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.84
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.84
06192	Methylene Chloride	75-09-2	0.67	J	0.24	3.9		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.84

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Sample Description: SL-326-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8008 SDG#: DE080-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.84
06192	m+p-Xylene	179601-23-1	0.23	J	0.17	3.9		0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.84
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.55
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	97.6	U	97.6	195		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-326-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8008 SDG#: DE080-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	2.2		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1

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Sample Description: **SL-326-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8008 SDG#: DE080-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.86	J	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	2.6		0.78	2.0		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.55
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1

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Sample Description: SL-326-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E8008 SDG#: DE080-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	2,200		700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	1.7	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	2.1		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	7.1		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	19		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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Sample Description: SL-326-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

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Suite 210
Chantilly VA 20151

E8008 SDG#: DE080-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		5.83	23.2		1
07914	Boron	7440-42-8	2.09	J	1.03	5.80		1
01650	Calcium	7440-70-2	4,630		7.11	23.2		1
01654	Iron	7439-89-6	23,600		5.46	23.2		1
01656	Lithium	7439-93-2	26.3		0.26	2.3		1
01657	Magnesium	7439-95-4	5,100		2.94	11.6		1
06958	Manganese	7439-96-5	281		0.0904	0.580		1
10145	Phosphorus	7723-14-0	333		0.649	11.6		1
01662	Potassium	7440-09-7	2,570		20.9	58.0		1
01667	Sodium	7440-23-5	1,090		43.2	116		1
07968	Strontium	7440-24-6	27.1		0.0719	0.580		1
06969	Tin	7440-31-5	2.88	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,210		0.441	1.16		1
10146	Zirconium	7440-67-7	1.85	J	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.07		0.0927	0.464		2
06126	Barium	7440-39-3	132		0.125	0.464		2
06127	Beryllium	7440-41-7	0.787		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.153		0.0464	0.116		2
06131	Chromium	7440-47-3	23.8		0.139	0.464		2
06132	Cobalt	7440-48-4	6.84		0.0232	0.116		2
06133	Copper	7440-50-8	9.44		0.0765	0.464		2
06135	Lead	7439-92-1	7.89		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.515		0.0580	0.116		2
06139	Nickel	7440-02-0	13.2		0.116	0.464		2
06141	Selenium	7782-49-2	0.102	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0403	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.361		0.0348	0.116		2
06148	Vanadium	7440-62-2	44.2		0.0255	0.116		2
06149	Zinc	7440-66-6	63.4		0.649	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0542	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.94	U	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-326-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8008 SDG#: DE080-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	435		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-326-SA5B-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 20:00	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 13:24	Jason M Long	21.55
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 13:52	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104223672	02/11/2011 14:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104223672	02/11/2011 14:21	Christopher D Meeks	n.a.

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Sample Description: **SL-326-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8008 SDG#: DE080-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104223672	02/11/2011 13:52	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 16:11	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 03:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 08:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34C	02/14/2011 18:02	Elizabeth J Marin	21.55
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 13:52	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 17:50	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 22:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 03:37	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/19/2011 02:20	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 21:55	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 19:46	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110460012A	02/17/2011 13:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110460012A	02/15/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:05	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-326-SA5B-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203548
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8008 SDG#: DE080-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 13:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202A	02/23/2011 13:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 19:57	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/16/2011 23:15	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 12:29	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11046182101A	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401A	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-326-SA5B-SB-18.5-19.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.2	U	8.2	9.8		1.11
06192	Benzene	71-43-2	0.12	U	0.12	4.9		1.11
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.9		1.11
06192	Bromochloromethane	74-97-5	0.41	U	0.41	4.9		1.11
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.9		1.11
06192	Bromoform	75-25-2	0.49	U	0.49	4.9		1.11
06192	Bromomethane	74-83-9	0.31	U	0.31	4.9		1.11
06192	2-Butanone	78-93-3	1.5	U	1.5	9.8		1.11
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	4.9		1.11
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.9		1.11
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	4.9		1.11
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.9		1.11
06192	Chlorobenzene	108-90-7	0.14	U	0.14	4.9		1.11
06192	Chloroethane	75-00-3	0.16	U	0.16	4.9		1.11
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	4.9		1.11
06192	Chloroform	67-66-3	0.15	U	0.15	4.9		1.11
06192	Chloromethane	74-87-3	0.41	U	0.41	4.9		1.11
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.9		1.11
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.9		1.11
06192	Chlorotrifluoroethene	79-38-9	0.61	U	0.61	6.1		1.11
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.86	U	0.86	4.9		1.11
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	4.9		1.11
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	4.9		1.11
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.9		1.11
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.9		1.11
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	4.9		1.11
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	4.9		1.11
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	4.9		1.11
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.9		1.11
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.9		1.11
06192	1,1-Dichloroethene	75-35-4	0.48	U	0.48	4.9		1.11
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.9		1.11
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	4.9		1.11
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	4.9		1.11
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.9		1.11
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	4.9		1.11
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.9		1.11
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	4.9		1.11
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	4.9		1.11
06192	Ethylbenzene	100-41-4	0.09	J	0.07	4.9		1.11
06192	Freon 113	76-13-1	0.14	U	0.14	4.9		1.11
06192	Freon 133a	75-88-7	0.61	U	0.61	6.1		1.11
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.9		1.11
06192	2-Hexanone	591-78-6	2.0	U	2.0	9.8		1.11
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.9		1.11
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	4.9		1.11
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	4.9		1.11
06192	4-Methyl-2-pentanone	108-10-1	0.48	U	0.48	9.8		1.11
06192	Methylene Chloride	75-09-2	1.1	J	0.29	4.9		1.11
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	4.9		1.11

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-326-SA5B-SB-18.5-19.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.9		1.11
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	4.9		1.11
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.9		1.11
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	4.9		1.11
06192	Toluene	108-88-3	0.1	U	0.1	4.9		1.11
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.9		1.11
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.9		1.11
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	4.9		1.11
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.9		1.11
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.9		1.11
06192	Trichlorofluoromethane	75-69-4	0.36	U	0.36	4.9		1.11
06192	1,2,3-Trichloropropane	96-18-4	0.41	U	0.41	4.9		1.11
06192	1,2,4-Trimethylbenzene	95-63-6	0.49	U	0.49	4.9		1.11
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.9		1.11
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	4.9		1.11
06192	m+p-Xylene	179601-23-1	0.30	J	0.21	4.9		1.11
06192	o-Xylene	95-47-6	0.21	U	0.21	4.9		1.11
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25.25
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	92.5	U	92.5	185		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-326-SA5B-SB-18.5-19.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.6	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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Sample Description: **SL-326-SA5B-SB-18.5-19.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.7	20		1
10138	Fluoranthene	206-44-0	1.1	J	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	1.4	J	0.74	1.8		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.65
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1

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Sample Description: SL-326-SA5B-SB-18.5-19.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	7.0		0.37	1.9		1
10225	PCB-1260	11096-82-5	2.4		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	6.9		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	25		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Sample Description: SL-326-SA5B-SB-18.5-19.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.47	21.8		1
07914	Boron	7440-42-8	1.67	J	0.968	5.44		1
01650	Calcium	7440-70-2	2,850		6.67	21.8		1
01654	Iron	7439-89-6	21,600		5.13	21.8		1
01656	Lithium	7439-93-2	23.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,310		2.76	10.9		1
06958	Manganese	7439-96-5	329		0.0849	0.544		1
10145	Phosphorus	7723-14-0	273		0.609	10.9		1
01662	Potassium	7440-09-7	2,990		19.6	54.4		1
01667	Sodium	7440-23-5	309		40.6	109		1
07968	Strontium	7440-24-6	21.3		0.0675	0.544		1
06969	Tin	7440-31-5	2.65	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,110		0.413	1.09		1
10146	Zirconium	7440-67-7	1.23	J	0.914	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.84		0.0862	0.431		2
06126	Barium	7440-39-3	96.0		0.116	0.431		2
06127	Beryllium	7440-41-7	0.558		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.106	J	0.0431	0.108		2
06131	Chromium	7440-47-3	16.4		0.129	0.431		2
06132	Cobalt	7440-48-4	6.02		0.0216	0.108		2
06133	Copper	7440-50-8	7.14		0.0711	0.431		2
06135	Lead	7439-92-1	6.45		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.462		0.0539	0.108		2
06139	Nickel	7440-02-0	9.59		0.108	0.431		2
06141	Selenium	7782-49-2	0.0660	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0275	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.312		0.0323	0.108		2
06148	Vanadium	7440-62-2	34.6		0.0237	0.108		2
06149	Zinc	7440-66-6	124		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0182	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.89	U	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-326-SA5B-SB-18.5-19.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	446		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.51		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-326-SA5B-SB-19.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 20:23	Chelsea B Eastep	1.11
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 13:44	Jason M Long	25.25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104223672	02/11/2011 14:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104223672	02/11/2011 14:21	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-326-SA5B-SB-18.5-19.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104223672	02/11/2011 13:56	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 16:29	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 04:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 08:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34C	02/14/2011 18:38	Elizabeth J Marin	26.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 13:55	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 18:32	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 22:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 03:55	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/19/2011 04:00	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 22:10	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 20:03	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110460012A	02/17/2011 06:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110460012A	02/15/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:09	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-18.5-19.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203549
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8009 SDG#: DE080-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 14:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202A	02/23/2011 14:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 20:21	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11045243202A	02/16/2011 23:33	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 11:29	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11046182101A	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401A	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-326-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8010 SDG#: DE080-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.9	J	7.6	9.1		1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.02
06192	Bromoform	75-25-2	0.46	U	0.46	4.5		1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.02
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.02
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.5		1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.02
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.02
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.5		1.02
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.02
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.02
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.02
06192	Freon 113	76-13-1	0.13	U	0.13	4.5		1.02
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.02
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.5		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.02
06192	Methylene Chloride	75-09-2	0.90	J	0.27	4.5		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.02

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-326-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8010 SDG#: DE080-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.5		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.02
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.02
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.02
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.5		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.02
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.02
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	93.2	U	93.2	186		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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Sample Description: SL-326-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8010 SDG#: DE080-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.96	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	2.1		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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Sample Description: **SL-326-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8010 SDG#: DE080-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.7	20		1
10138	Fluoranthene	206-44-0	2.1		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	2.5		0.75	1.9		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1

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Sample Description: SL-326-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8010 SDG#: DE080-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	8.1		0.37	1.9		1
10225	PCB-1260	11096-82-5	4.2		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	13		10
10199	EFH (C15-C20)	n.a.	4.5	U	4.5	13		10
10199	EFH (C21-C30)	n.a.	71		4.5	13		10
10199	EFH (C30 - C40)	n.a.	150		4.5	13		10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Sample Description: SL-326-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8010 SDG#: DE080-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,610		5.57	22.1		1
07914	Boron	7440-42-8	2.83	J	0.986	5.54		1
01650	Calcium	7440-70-2	14,000		6.79	22.1		1
01654	Iron	7439-89-6	16,700		5.22	22.1		1
01656	Lithium	7439-93-2	11.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,160		2.81	11.1		1
06958	Manganese	7439-96-5	193		0.0864	0.554		1
10145	Phosphorus	7723-14-0	382		0.620	11.1		1
01662	Potassium	7440-09-7	2,210		19.9	55.4		1
01667	Sodium	7440-23-5	1,700		41.3	111		1
07968	Strontium	7440-24-6	40.3		0.0687	0.554		1
06969	Tin	7440-31-5	2.01	J	1.11	11.1		1
06970	Titanium	7440-32-6	696		0.421	1.11		1
10146	Zirconium	7440-67-7	2.96	J	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.98		0.0886	0.443		2
06126	Barium	7440-39-3	115		0.120	0.443		2
06127	Beryllium	7440-41-7	0.402		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.246		0.0443	0.111		2
06131	Chromium	7440-47-3	15.0		0.133	0.443		2
06132	Cobalt	7440-48-4	5.59		0.0221	0.111		2
06133	Copper	7440-50-8	20.4		0.0731	0.443		2
06135	Lead	7439-92-1	10.8		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.785		0.0554	0.111		2
06139	Nickel	7440-02-0	12.7		0.111	0.443		2
06141	Selenium	7782-49-2	0.100	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0695	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.181		0.0332	0.111		2
06148	Vanadium	7440-62-2	93.3		0.0244	0.111		2
06149	Zinc	7440-66-6	79.9		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0426	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.0		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-326-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8010 SDG#: DE080-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	305		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-326-SA5B-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110421AA	02/11/2011 20:45	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110461AA	02/15/2011 14:04	Jason M Long	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 14:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104223672	02/11/2011 14:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104223672	02/11/2011 14:21	Christopher D Meeks	n.a.

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Sample Description: SL-326-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8010 SDG#: DE080-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104223672	02/11/2011 14:01	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 16:48	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 04:42	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 09:25	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11035A34C	02/14/2011 19:15	Elizabeth J Marin	22.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104223672	02/11/2011 14:00	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 19:15	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 22:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 04:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/22/2011 11:59	Heather E Williams	10
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 22:25	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 20:21	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110460012A	02/17/2011 13:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110460012A	02/15/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:13	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-326-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203550
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8010 SDG#: DE080-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202A	02/23/2011 14:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202A	02/23/2011 14:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 20:45	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/16/2011 23:39	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 11:30	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202A	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11046182101A	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401A	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-329-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203551
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8011 SDG#: DE080-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	88.5	U	88.5	177		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-329-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203551
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8011 SDG#: DE080-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.47	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	13		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	12		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	18		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.8		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	7.2		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	7.3	J	6.4	19		1
10138	Chrysene	218-01-9	13		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.99	J	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	J	6.4	19		1
10138	Fluoranthene	206-44-0	13		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.9		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.1	J	0.71	1.8		1
10138	Pyrene	129-00-0	17		0.71	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1

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Sample Description: SL-329-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203551
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8011 SDG#: DE080-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	130	U	130	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.092	J	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-329-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203551
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8011 SDG#: DE080-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.20	U	0.20	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	1.6	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.92	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C21-C30)	n.a.	41		2.1	6.4		5
10199	EFH (C30 - C40)	n.a.	180		2.1	6.4		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.4		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-329-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203551
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8011 SDG#: DE080-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		5.24	20.8		1
07914	Boron	7440-42-8	3.02	J	0.926	5.20		1
01650	Calcium	7440-70-2	4,410		6.38	20.8		1
01654	Iron	7439-89-6	19,800		4.90	20.8		1
01656	Lithium	7439-93-2	25.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,710		2.64	10.4		1
06958	Manganese	7439-96-5	279		0.0812	0.520		1
10145	Phosphorus	7723-14-0	668		0.583	10.4		1
01662	Potassium	7440-09-7	2,960		18.7	52.0		1
01667	Sodium	7440-23-5	352		38.8	104		1
07968	Strontium	7440-24-6	20.1		0.0645	0.520		1
06969	Tin	7440-31-5	2.64	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,040		0.395	1.04		1
10146	Zirconium	7440-67-7	1.25	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.51		0.0833	0.416		2
06126	Barium	7440-39-3	89.9		0.112	0.416		2
06127	Beryllium	7440-41-7	0.489		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.136		0.0416	0.104		2
06131	Chromium	7440-47-3	19.4		0.125	0.416		2
06132	Cobalt	7440-48-4	5.22		0.0208	0.104		2
06133	Copper	7440-50-8	9.45		0.0687	0.416		2
06135	Lead	7439-92-1	5.34		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.483		0.0520	0.104		2
06139	Nickel	7440-02-0	10.2		0.104	0.416		2
06141	Selenium	7782-49-2	0.116	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.0272	J	0.0125	0.104		2

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Sample Description: **SL-329-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203551
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8011 SDG#: DE080-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.288		0.0312	0.104		2
06148	Vanadium	7440-62-2	34.2		0.0229	0.104		2
06149	Zinc	7440-66-6	72.3		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.9		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.22		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-329-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203551
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8011 SDG#: DE080-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 17:06	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 05:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 09:57	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 19:57	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 22:56	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 21:23	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110460015A	02/18/2011 09:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 04:32	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110460015A	02/15/2011 18:25	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/22/2011 12:24	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 22:39	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 20:38	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110460012A	02/17/2011 15:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110460012A	02/15/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:17	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2

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Sample Description: **SL-329-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203551
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8011 SDG#: DE080-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 15:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202B	02/23/2011 15:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 21:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/16/2011 23:52	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 12:30	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11046182101B	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401B	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-330-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203552
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8012 SDG#: DE080-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	86.8	U	86.8	174		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(g,h,i)perylene	191-24-2	27	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Chrysene	218-01-9	18	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	61	J	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-330-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203552
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8012 SDG#: DE080-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	18	J	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.7		5
10138	Benzo(a)anthracene	56-55-3	4.1	J	3.5	8.7		5
10138	Benzo(a)pyrene	50-32-8	8.9		3.5	8.7		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.5	8.7		5
10138	Benzo(k)fluoranthene	207-08-9	7.7	J	3.5	8.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34	J	31	94		5
10138	Fluoranthene	206-44-0	6.5	J	3.5	8.7		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.7		5

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-330-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203552
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8012 SDG#: DE080-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	130	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.7	U	4.7	4.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	3.9		0.64	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	500	U	500	500		1
10401	MCPP (Mecoprop)	93-65-2	240	U	240	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.28		0.078	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP, MCPA and 2,4-D.

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Sample Description: SL-330-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203552
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8012 SDG#: DE080-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.5	U	1.5	3.5		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35		1
01363	p,p-DDT	50-29-3	0.33	U	0.33	0.35		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35		1
01363	Endrin	72-20-8	0.10	U	0.10	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.35		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35		1
01363	Heptachlor	76-44-8	0.61		0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	1.1	U	1.1	1.1		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	1.4	J	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.89	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.6	J	2.1	6.2		5

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Sample Description: **SL-330-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203552
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8012 SDG#: DE080-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	62		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	240		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	190	J	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		5.04	20.0		1
07914	Boron	7440-42-8	4.01	J	0.891	5.01		1
01650	Calcium	7440-70-2	4,300		6.14	20.0		1
01654	Iron	7439-89-6	17,300		4.72	20.0		1
01656	Lithium	7439-93-2	17.8		0.22	2.0		1
01657	Magnesium	7439-95-4	4,010		2.54	10.0		1
06958	Manganese	7439-96-5	233		0.0781	0.501		1
10145	Phosphorus	7723-14-0	497		0.561	10.0		1
01662	Potassium	7440-09-7	2,760		18.0	50.1		1
01667	Sodium	7440-23-5	531		37.4	100		1
07968	Strontium	7440-24-6	34.2		0.0621	0.501		1
06969	Tin	7440-31-5	2.58	J	1.00	10.0		1
06970	Titanium	7440-32-6	962		0.381	1.00		1
10146	Zirconium	7440-67-7	2.67	J	0.841	5.01		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0607	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.74		0.0809	0.405		2
06126	Barium	7440-39-3	87.3		0.109	0.405		2
06127	Beryllium	7440-41-7	0.401		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.323		0.0405	0.101		2
06131	Chromium	7440-47-3	22.6		0.121	0.405		2

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Sample Description: **SL-330-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203552
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8012 SDG#: DE080-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	5.12		0.0202	0.101		2
06133	Copper	7440-50-8	14.0		0.0667	0.405		2
06135	Lead	7439-92-1	7.90		0.0105	0.202		2
06138	Molybdenum	7439-98-7	1.09		0.0506	0.101		2
06139	Nickel	7440-02-0	11.8		0.101	0.405		2
06141	Selenium	7782-49-2	0.204	J	0.0405	0.405		2
06142	Silver	7440-22-4	0.0465	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.210		0.0303	0.101		2
06148	Vanadium	7440-62-2	34.8		0.0222	0.101		2
06149	Zinc	7440-66-6	98.3		0.566	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0091	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.83	U	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	384		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-330-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203552
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

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E8012 SDG#: DE080-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 17:25	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 05:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 01:26	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 20:39	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 23:05	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 21:50	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110460015A	02/18/2011 10:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 04:51	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110460015A	02/15/2011 18:25	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/22/2011 12:49	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 22:54	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 20:56	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110460012A	02/17/2011 16:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110460012A	02/15/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-330-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203552
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8012 SDG#: DE080-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:21	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 16:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202B	02/23/2011 16:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201A	02/23/2011 21:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/17/2011 00:04	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 12:32	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201A	02/23/2011 13:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11046182101B	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401B	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-331-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203553
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8013 SDG#: DE080-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	87.7	U	87.7	175		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-331-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203553
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8013 SDG#: DE080-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	5.1	J	3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	5.9	J	3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	9.5		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	3.5	U	3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	5.8	J	3.5	8.8		5
10138	Chrysene	218-01-9	5.2	J	1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32	U	32	95		5
10138	Fluoranthene	206-44-0	4.7	J	3.5	8.8		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.8		5
10138	Pyrene	129-00-0	6.9	J	3.5	8.8		5

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-331-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203553
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8013 SDG#: DE080-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	240	U	240	260		1
10401	MCPP (Mecoprop)	93-65-2	170	U	170	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	630	U	630	1,600		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-331-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203553
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8013 SDG#: DE080-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.098	U	0.098	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.36		1
01363	Endrin Ketone	53494-70-5	0.34	J	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	2.2		0.35	1.8		1
10225	PCB-1260	11096-82-5	1.3	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-331-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203553
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8013 SDG#: DE080-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	7.7		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	27		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		5.19	20.6		1
07914	Boron	7440-42-8	3.69	J	0.918	5.15		1
01650	Calcium	7440-70-2	8,300		6.32	20.6		1
01654	Iron	7439-89-6	17,900		4.86	20.6		1
01656	Lithium	7439-93-2	24.0		0.23	2.1		1
01657	Magnesium	7439-95-4	4,440		2.62	10.3		1
06958	Manganese	7439-96-5	283		0.0804	0.515		1
10145	Phosphorus	7723-14-0	406		0.577	10.3		1
01662	Potassium	7440-09-7	2,890		18.6	51.5		1
01667	Sodium	7440-23-5	484		38.5	103		1
07968	Strontium	7440-24-6	21.5		0.0639	0.515		1
06969	Tin	7440-31-5	2.57	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,070		0.392	1.03		1
10146	Zirconium	7440-67-7	1.28	J	0.866	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0956	J	0.0625	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.73		0.0833	0.416		2
06126	Barium	7440-39-3	88.7		0.112	0.416		2
06127	Beryllium	7440-41-7	0.470		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.127		0.0416	0.104		2
06131	Chromium	7440-47-3	17.8		0.125	0.416		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-331-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203553
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8013 SDG#: DE080-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	5.32		0.0208	0.104		2
06133	Copper	7440-50-8	7.79		0.0687	0.416		2
06135	Lead	7439-92-1	5.61		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.459		0.0521	0.104		2
06139	Nickel	7440-02-0	9.91		0.104	0.416		2
06141	Selenium	7782-49-2	0.118	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.0312	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.289		0.0312	0.104		2
06148	Vanadium	7440-62-2	34.1		0.0229	0.104		2
06149	Zinc	7440-66-6	70.0		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0133	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	24.0		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	391		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	4.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-331-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203553
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8013 SDG#: DE080-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	11045SLF026	02/21/2011 17:43	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 05:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 01:57	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11045SLF026	02/15/2011 08:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10132	20a Energetics by 8330A	SW-846 8330A	1	110460005A	02/18/2011 21:22	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110450008A	02/16/2011 23:15	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 22:18	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110460015A	02/18/2011 10:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 06:23	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110460015A	02/15/2011 18:25	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110450008A	02/14/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110460005A	02/15/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/19/2011 02:45	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110420012A	02/11/2011 23:09	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 21:13	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110460012A	02/17/2011 14:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110460012A	02/15/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110420012A	02/11/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-331-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203553
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8013 SDG#: DE080-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:32	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 16:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 16:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 16:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 16:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 16:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11053621202B	02/23/2011 16:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201B	02/23/2011 23:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11045243202A	02/17/2011 00:23	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 12:33	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201B	02/23/2011 13:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11046182101B	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401B	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-332-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203554
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8014 SDG#: DE080-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	97	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	120	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	150	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	48	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	62	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	130	J	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	19	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	30	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	45	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

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Sample Description: SL-332-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203554
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8014 SDG#: DE080-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	75	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32	U	32	97		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	11		3.6	9.0		5
10138	Phenanthrene	85-01-8	3.6	U	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	0.72	J	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	140	U	140	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the							

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Sample Description: SL-332-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203554
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8014 SDG#: DE080-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.35	U	0.35	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.29	U	0.29	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.6		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	3.0		0.36	1.8		1
10225	PCB-1260	11096-82-5	3.1		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,820		5.33	21.2		1

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Sample Description: SL-332-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203554
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8014 SDG#: DE080-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	2.22	J	0.943	5.30		1
01650	Calcium	7440-70-2	3,110		6.50	21.2		1
01654	Iron	7439-89-6	16,100		4.99	21.2		1
01656	Lithium	7439-93-2	11.6		0.23	2.1		1
01657	Magnesium	7439-95-4	3,190		2.69	10.6		1
06958	Manganese	7439-96-5	180		0.0827	0.530		1
10145	Phosphorus	7723-14-0	499		0.594	10.6		1
01662	Potassium	7440-09-7	2,090		19.1	53.0		1
01667	Sodium	7440-23-5	192		39.5	106		1
07968	Strontium	7440-24-6	31.4		0.0657	0.530		1
06969	Tin	7440-31-5	2.77	J	1.06	10.6		1
06970	Titanium	7440-32-6	810		0.403	1.06		1
10146	Zirconium	7440-67-7	0.890	U	0.890	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0752	J	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.65		0.0840	0.420		2
06126	Barium	7440-39-3	89.6		0.113	0.420		2
06127	Beryllium	7440-41-7	0.317		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0721	J	0.0420	0.105		2
06131	Chromium	7440-47-3	13.9		0.126	0.420		2
06132	Cobalt	7440-48-4	4.18		0.0210	0.105		2
06133	Copper	7440-50-8	7.06		0.0693	0.420		2
06135	Lead	7439-92-1	4.43		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.204		0.0525	0.105		2
06139	Nickel	7440-02-0	5.93		0.105	0.420		2
06141	Selenium	7782-49-2	0.0768	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0272	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.161		0.0315	0.105		2
06148	Vanadium	7440-62-2	34.3		0.0231	0.105		2
06149	Zinc	7440-66-6	60.0		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0130	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.22	1.1		1

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Sample Description: **SL-332-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203554
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8014 SDG#: DE080-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	381	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 06:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 02:29	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 22:46	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 13:45	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 06:42	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1

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Sample Description: **SL-332-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203554
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

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E8014 SDG#: DE080-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:36	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 16:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 16:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 16:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 16:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 16:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201B	02/23/2011 23:57	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11045243202A	02/17/2011 00:35	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201B	02/23/2011 13:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11046182101B	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401B	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-333-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203555
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-333-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203555
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.89	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.83	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.89	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.3	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.8	J	6.4	19		1
10138	Fluoranthene	206-44-0	1.1	J	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	1.3	J	0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	7.0	U	7.0	9.6		1
10401	2,4-DB	94-82-6	2.0		0.66	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	130	J	81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

Due to interfering peaks on the chromatogram, the values reported for dalapon represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203555
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.081	U	0.081	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.27	U	0.27	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.38	U	0.38	0.38		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.31	U	0.31	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.43	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	5,420		5.18	20.6		1
07914	Boron	7440-42-8	1.48	J	0.917	5.15		1
01650	Calcium	7440-70-2	2,600		6.32	20.6		1
01654	Iron	7439-89-6	14,000		4.85	20.6		1

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Sample Description: **SL-333-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203555
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	6.6		0.23	2.1		1
01657	Magnesium	7439-95-4	2,260		2.62	10.3		1
06958	Manganese	7439-96-5	132		0.0804	0.515		1
10145	Phosphorus	7723-14-0	423		0.577	10.3		1
01662	Potassium	7440-09-7	1,480		18.6	51.5		1
01667	Sodium	7440-23-5	226		38.4	103		1
07968	Strontium	7440-24-6	19.7		0.0639	0.515		1
06969	Tin	7440-31-5	1.81	J	1.03	10.3		1
06970	Titanium	7440-32-6	654		0.392	1.03		1
10146	Zirconium	7440-67-7	0.866	U	0.866	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0612	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	1.38		0.0817	0.408		2
06126	Barium	7440-39-3	62.4		0.110	0.408		2
06127	Beryllium	7440-41-7	0.187		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.107		0.0408	0.102		2
06131	Chromium	7440-47-3	7.34		0.122	0.408		2
06132	Cobalt	7440-48-4	4.41		0.0204	0.102		2
06133	Copper	7440-50-8	8.73		0.0674	0.408		2
06135	Lead	7439-92-1	2.90		0.0106	0.204		2
06138	Molybdenum	7439-98-7	0.199		0.0510	0.102		2
06139	Nickel	7440-02-0	4.86		0.102	0.408		2
06141	Selenium	7782-49-2	0.0643	J	0.0408	0.408		2
06142	Silver	7440-22-4	0.0162	J	0.0122	0.102		2
06145	Thallium	7440-28-0	0.158		0.0306	0.102		2
06148	Vanadium	7440-62-2	32.7		0.0225	0.102		2
06149	Zinc	7440-66-6	61.1		0.572	3.06		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0125	J	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	400		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-333-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203555
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.64	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 00:30	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/17/2011 18:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110450011A	02/15/2011 19:07	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 14:13	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 07:00	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110450011A	02/15/2011 02:35	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203555
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 16:11	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 14:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201B	02/23/2011 21:57	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/17/2011 00:42	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201B	02/23/2011 13:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11046182101B	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401B	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-333-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203556
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700	17	170		1
04688	Acenaphthylene	208-96-8	1,800	17	170		1
04688	Aniline	62-53-3	1,200	170	520		1
04688	Anthracene	120-12-7	1,800	17	170		1
04688	Benzidine	92-87-5	5,300	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,800	17	170		1
04688	Benzo(a)pyrene	50-32-8	1,800	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	2,000	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	17	170		1
04688	Benzoic acid	65-85-0	1,400	170	520		1
04688	Benzyl alcohol	100-51-6	1,700	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800	17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700	17	170		1
04688	Carbazole	86-74-8	1,700	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	35	170		1
04688	4-Chloroaniline	106-47-8	690	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	17	170		1
04688	2-Chloronaphthalene	91-58-7	1,400	17	170		1
04688	2-Chlorophenol	95-57-8	1,700	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	35	170		1
04688	Chrysene	218-01-9	1,900	17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	17	170		1
04688	Dibenzofuran	132-64-9	1,700	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,800	17	170		1
04688	Diethylphthalate	84-66-2	1,700	17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700	35	170		1
04688	3,5-Dimethylphenol	108-68-9	1,700	35	170		1
04688	Dimethylphthalate	131-11-3	1,700	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	170	520		1
04688	2,4-Dinitrophenol	51-28-5	2,200	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	17	350		1
04688	Fluoranthene	206-44-0	1,800	17	170		1
04688	Fluorene	86-73-7	1,700	17	170		1
04688	Hexachlorobenzene	118-74-1	1,900	17	170		1
04688	Hexachlorobutadiene	87-68-3	1,800	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	3,200	170	520		1
04688	Hexachloroethane	67-72-1	1,600	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	17	170		1
04688	Isophorone	78-59-1	1,600	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203556
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170		1
04688	2-Methylphenol	95-48-7	1,600	35	170		1
04688	4-Methylphenol	106-44-5	1,600	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	17	170		1
04688	2-Nitroaniline	88-74-4	1,700	17	170		1
04688	3-Nitroaniline	99-09-2	1,600	35	170		1
04688	4-Nitroaniline	100-01-6	1,200	70	170		1
04688	Nitrobenzene	98-95-3	1,700	17	170		1
04688	2-Nitrophenol	88-75-5	1,700	17	170		1
04688	4-Nitrophenol	100-02-7	1,500	170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	17	170		1
04688	Pentachlorophenol	87-86-5	1,300	170	520		1
04688	Phenanthrene	85-01-8	1,700	17	170		1
04688	Phenol	108-95-2	1,500	17	170		1
04688	Pyrene	129-00-0	1,800	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	35	170		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 33 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.71	1.8		1
10138	Acenaphthylene	208-96-8	36	0.35	1.8		1
10138	Anthracene	120-12-7	38	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	92	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	110	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	140	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	84	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	52	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	42	6.4	19		1
10138	Chrysene	218-01-9	100	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	28	0.71	1.8		1
10138	Diethylphthalate	84-66-2	41	6.4	19		1
10138	Dimethylphthalate	131-11-3	39	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	58	6.4	19		1
10138	Fluoranthene	206-44-0	55	0.71	1.8		1
10138	Fluorene	86-73-7	36	0.71	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-333-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203556
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	34		0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	30		0.71	1.8		1
10138	Naphthalene	91-20-3	34		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	37		0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	68		6.4	19		1
10138	Phenanthrene	85-01-8	36		0.71	1.8		1
10138	Pyrene	129-00-0	77		0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	11		1.3	3.8		1
10401	Dalapon	75-99-0	8.7	J	4.7	9.6		1
10401	2,4-DB	94-82-6	9.4		0.66	1.8		1
10401	Dicamba	1918-00-9	0.70	J	0.42	1.3		1
10401	Dinoseb	88-85-7	2.5	J	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.8		0.85	1.8		1
10401	MCPA	94-74-6	960		81	270		1
10401	MCPP (Mecoprop)	93-65-2	800		80	270		1
10401	2,4,5-T	93-76-5	0.80		0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.65		0.080	0.18		1

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.40		0.070	0.18		1
01363	Alpha BHC	319-84-6	0.22		0.036	0.18		1
01363	Beta BHC	319-85-7	0.29		0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.27		0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.62		0.070	0.36		1
01363	p,p-DDE	72-55-9	0.74		0.070	0.36		1
01363	p,p-DDT	50-29-3	0.70		0.070	0.36		1
01363	Delta BHC	319-86-8	0.25		0.038	0.18		1
01363	Dieldrin	60-57-1	0.51		0.070	0.36		1
01363	Endosulfan I	959-98-8	0.17	J	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.55		0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.65		0.070	0.36		1
01363	Endrin	72-20-8	0.49		0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.40		0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.75		0.070	0.36		1
01363	Heptachlor	76-44-8	0.27		0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.35		0.036	0.18		1
01363	Methoxychlor	72-43-5	2.9		0.36	1.8		1
01363	Mirex	2385-85-5	0.18	J	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203556
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	6.3		1.1	3.5		1
10225	PCB-1016	12674-11-2	17		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	18		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,430		5.29	21.0		1
07914	Boron	7440-42-8	216		0.935	5.26		1
01650	Calcium	7440-70-2	4,440		6.44	21.0		1
01654	Iron	7439-89-6	18,200		4.95	21.0		1
01656	Lithium	7439-93-2	117		0.23	2.1		1
01657	Magnesium	7439-95-4	3,460		2.67	10.5		1
06958	Manganese	7439-96-5	232		0.0820	0.526		1
10145	Phosphorus	7723-14-0	593		0.589	10.5		1
01662	Potassium	7440-09-7	3,030		18.9	52.6		1
01667	Sodium	7440-23-5	1,480		39.2	105		1
07968	Strontium	7440-24-6	138		0.0652	0.526		1
06969	Tin	7440-31-5	404		1.05	10.5		1
06970	Titanium	7440-32-6	1,210		0.399	1.05		1
10146	Zirconium	7440-67-7	106		0.883	5.26		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.720		0.0631	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.89		0.0841	0.420		2
06126	Barium	7440-39-3	69.1		0.114	0.420		2
06127	Beryllium	7440-41-7	1.08		0.0168	0.105		2
06128	Cadmium	7440-43-9	1.31		0.0420	0.105		2
06131	Chromium	7440-47-3	19.9		0.126	0.420		2
06132	Cobalt	7440-48-4	58.4		0.0210	0.105		2
06133	Copper	7440-50-8	18.7		0.0694	0.420		2
06135	Lead	7439-92-1	6.83		0.0109	0.210		2
06138	Molybdenum	7439-98-7	12.4		0.0526	0.105		2
06139	Nickel	7440-02-0	17.9		0.105	0.420		2
06141	Selenium	7782-49-2	2.52		0.0420	0.420		2
06142	Silver	7440-22-4	12.5		0.0126	0.105		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-333-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203556
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.553	0.0315	0.105		2
06148	Vanadium	7440-62-2	57.9	0.0231	0.105		2
06149	Zinc	7440-66-6	77.4	0.589	3.15		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.185	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.4	0.85	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	679	9.6	31.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.6	1.1	5.3		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 00:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/17/2011 19:00	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110450011A	02/15/2011 20:30	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 14:43	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 07:19	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110450011A	02/15/2011 02:35	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-333-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203556
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 16:23	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 15:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201B	02/23/2011 23:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11045243202A	02/17/2011 01:13	Carrie E Miller	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201B	02/23/2011 13:10	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-333-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203557
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700	17	170		1
04688	Acenaphthylene	208-96-8	1,800	17	170		1
04688	Aniline	62-53-3	1,100	170	520		1
04688	Anthracene	120-12-7	1,700	17	170		1
04688	Benzidine	92-87-5	4,200	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,900	17	170		1
04688	Benzo(a)pyrene	50-32-8	1,900	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	2,000	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	17	170		1
04688	Benzoic acid	65-85-0	1,400	170	520		1
04688	Benzyl alcohol	100-51-6	1,700	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800	17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700	17	170		1
04688	Carbazole	86-74-8	1,700	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	35	170		1
04688	4-Chloroaniline	106-47-8	560	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600	17	170		1
04688	2-Chlorophenol	95-57-8	1,700	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	35	170		1
04688	Chrysene	218-01-9	1,900	17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	17	170		1
04688	Dibenzofuran	132-64-9	1,700	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,800	17	170		1
04688	Diethylphthalate	84-66-2	1,700	17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700	35	170		1
04688	3,5-Dimethylphenol	108-68-9	1,700	35	170		1
04688	Dimethylphthalate	131-11-3	1,700	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	170	520		1
04688	2,4-Dinitrophenol	51-28-5	2,200	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	17	350		1
04688	Fluoranthene	206-44-0	1,800	17	170		1
04688	Fluorene	86-73-7	1,700	17	170		1
04688	Hexachlorobenzene	118-74-1	1,900	17	170		1
04688	Hexachlorobutadiene	87-68-3	1,800	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	3,100	170	520		1
04688	Hexachloroethane	67-72-1	1,600	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	17	170		1
04688	Isophorone	78-59-1	1,600	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203557
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170		1
04688	2-Methylphenol	95-48-7	1,600	35	170		1
04688	4-Methylphenol	106-44-5	1,600	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	17	170		1
04688	2-Nitroaniline	88-74-4	1,700	17	170		1
04688	3-Nitroaniline	99-09-2	1,500	35	170		1
04688	4-Nitroaniline	100-01-6	1,200	70	170		1
04688	Nitrobenzene	98-95-3	1,600	17	170		1
04688	2-Nitrophenol	88-75-5	1,700	17	170		1
04688	4-Nitrophenol	100-02-7	1,500	170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	17	170		1
04688	Pentachlorophenol	87-86-5	1,300	170	520		1
04688	Phenanthrene	85-01-8	1,700	17	170		1
04688	Phenol	108-95-2	1,500	17	170		1
04688	Pyrene	129-00-0	1,900	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	35	170		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 33 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.71	1.8		1
10138	Acenaphthylene	208-96-8	36	0.35	1.8		1
10138	Anthracene	120-12-7	35	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	40	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	40	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	46	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	23	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	41	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	47	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	42	6.4	19		1
10138	Chrysene	218-01-9	38	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	29	0.71	1.8		1
10138	Diethylphthalate	84-66-2	40	6.4	19		1
10138	Dimethylphthalate	131-11-3	39	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52	6.4	19		1
10138	Fluoranthene	206-44-0	36	0.71	1.8		1
10138	Fluorene	86-73-7	36	0.71	1.8		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-333-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203557
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	33		0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	30		0.71	1.8		1
10138	Naphthalene	91-20-3	33		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	38		0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	58		6.4	19		1
10138	Phenanthrene	85-01-8	35		0.71	1.8		1
10138	Pyrene	129-00-0	38		0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.6		1.3	3.8		1
10401	Dalapon	75-99-0	6.9	J	4.7	9.6		1
10401	2,4-DB	94-82-6	8.4		0.66	1.8		1
10401	Dicamba	1918-00-9	0.73	J	0.42	1.3		1
10401	Dinoseb	88-85-7	3.0		0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.8		0.85	1.8		1
10401	MCPA	94-74-6	820		81	270		1
10401	MCPP (Mecoprop)	93-65-2	710		80	270		1
10401	2,4,5-T	93-76-5	0.75		0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.67		0.080	0.18		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.41		0.070	0.18		1
01363	Alpha BHC	319-84-6	0.22		0.036	0.18		1
01363	Beta BHC	319-85-7	0.27		0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.25		0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.61		0.070	0.36		1
01363	p,p-DDE	72-55-9	0.77		0.070	0.36		1
01363	p,p-DDT	50-29-3	0.90		0.070	0.36		1
01363	Delta BHC	319-86-8	0.27		0.038	0.18		1
01363	Dieldrin	60-57-1	0.55		0.070	0.36		1
01363	Endosulfan I	959-98-8	0.18		0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.64		0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.65		0.070	0.36		1
01363	Endrin	72-20-8	0.53		0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.45		0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.69		0.070	0.36		1
01363	Heptachlor	76-44-8	0.27		0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.42		0.036	0.18		1
01363	Methoxychlor	72-43-5	2.2		0.36	1.8		1
01363	Mirex	2385-85-5	0.19	J	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203557
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	9.6		1.1	3.5		1
10225	PCB-1016	12674-11-2	16		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	20		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,920		5.29	21.0		1
07914	Boron	7440-42-8	217		0.935	5.26		1
01650	Calcium	7440-70-2	4,010		6.44	21.0		1
01654	Iron	7439-89-6	16,100		4.95	21.0		1
01656	Lithium	7439-93-2	117		0.23	2.1		1
01657	Magnesium	7439-95-4	3,190		2.67	10.5		1
06958	Manganese	7439-96-5	220		0.0820	0.526		1
10145	Phosphorus	7723-14-0	507		0.589	10.5		1
01662	Potassium	7440-09-7	3,080		18.9	52.6		1
01667	Sodium	7440-23-5	1,480		39.2	105		1
07968	Strontium	7440-24-6	130		0.0652	0.526		1
06969	Tin	7440-31-5	406		1.05	10.5		1
06970	Titanium	7440-32-6	991		0.399	1.05		1
10146	Zirconium	7440-67-7	107		0.883	5.26		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.717		0.0631	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.13		0.0841	0.420		2
06126	Barium	7440-39-3	76.2		0.114	0.420		2
06127	Beryllium	7440-41-7	1.08		0.0168	0.105		2
06128	Cadmium	7440-43-9	1.28		0.0420	0.105		2
06131	Chromium	7440-47-3	19.6		0.126	0.420		2
06132	Cobalt	7440-48-4	56.4		0.0210	0.105		2
06133	Copper	7440-50-8	17.5		0.0694	0.420		2
06135	Lead	7439-92-1	6.69		0.0109	0.210		2
06138	Molybdenum	7439-98-7	11.6		0.0526	0.105		2
06139	Nickel	7440-02-0	15.7		0.105	0.420		2
06141	Selenium	7782-49-2	2.42		0.0420	0.420		2
06142	Silver	7440-22-4	12.0		0.0126	0.105		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203557
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06145	Thallium	7440-28-0	0.579	0.0315	0.105		2
06148	Vanadium	7440-62-2	42.4	0.0231	0.105		2
06149	Zinc	7440-66-6	72.1	0.589	3.15		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.191	0.0030	0.105		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011	01:21	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/17/2011	19:32	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110450011A	02/15/2011	20:58	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011	15:12	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011	07:37	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011	13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011	04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110450011A	02/15/2011	02:35	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011	16:27	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203557
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 16:27	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 16:27	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 16:27	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-333-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203558
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	5,120		5.24	20.8		1
07914	Boron	7440-42-8	1.24	J	0.926	5.20		1
01650	Calcium	7440-70-2	2,370		6.38	20.8		1
01654	Iron	7439-89-6	13,900		4.90	20.8		1
01656	Lithium	7439-93-2	7.1		0.23	2.1		1
01657	Magnesium	7439-95-4	2,160		2.64	10.4		1
06958	Manganese	7439-96-5	136		0.0812	0.520		1
10145	Phosphorus	7723-14-0	425		0.583	10.4		1
01662	Potassium	7440-09-7	1,450		18.7	52.0		1
01667	Sodium	7440-23-5	198		38.8	104		1
07968	Strontium	7440-24-6	17.6		0.0645	0.520		1
06969	Tin	7440-31-5	1.64	J	1.04	10.4		1
06970	Titanium	7440-32-6	682		0.395	1.04		1
10146	Zirconium	7440-67-7	0.874	U	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.266		0.0631	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.08		0.0841	0.420		2
06126	Barium	7440-39-3	70.1		0.114	0.420		2
06127	Beryllium	7440-41-7	0.286		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.222		0.0420	0.105		2
06131	Chromium	7440-47-3	13.4		0.126	0.420		2
06132	Cobalt	7440-48-4	4.56		0.0210	0.105		2
06133	Copper	7440-50-8	13.4		0.0694	0.420		2
06135	Lead	7439-92-1	5.64		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.334		0.0526	0.105		2
06139	Nickel	7440-02-0	6.57		0.105	0.420		2
06141	Selenium	7782-49-2	0.149	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0411	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.153		0.0315	0.105		2
06148	Vanadium	7440-62-2	48.7		0.0231	0.105		2
06149	Zinc	7440-66-6	142		0.589	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0126	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203558
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		mV	mV	mV	mV	
01821	32a OR Potential	n.a.	398	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 16:19	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 15:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-333-SA5B-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203558
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8015 SDG#: DE080-15DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 15:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 15:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 15:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 14:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201B	02/23/2011 22:21	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/17/2011 01:44	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201B	02/23/2011 13:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11046182101B	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401B	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-334-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203559
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8016 SDG#: DE080-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-334-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203559
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8016 SDG#: DE080-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.4		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.4		5
10138	Benzo(a)pyrene	50-32-8	11		3.7	9.4		5
10138	Benzo(b)fluoranthene	205-99-2	7.3	J	3.7	9.4		5
10138	Benzo(g,h,i)perylene	191-24-2	6.5	J	3.7	9.4		5
10138	Benzo(k)fluoranthene	207-08-9	14		3.7	9.4		5
10138	Chrysene	218-01-9	11		1.9	9.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	65	J	34	100		5
10138	Fluoranthene	206-44-0	3.7	U	3.7	9.4		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.4		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.4		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.4		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.4		5
10138	Di-n-octylphthalate	117-84-0	35	J	34	100		5
10138	Phenanthrene	85-01-8	5.1	J	3.7	9.4		5
10138	Pyrene	129-00-0	6.5	J	3.7	9.4		5

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	7.9	U	7.9	10		1
10401	2,4-DB	94-82-6	0.78	J	0.69	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-334-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203559
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8016 SDG#: DE080-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

Due to interfering peaks on the chromatogram, the values reported for dalapon represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	1.9	U	1.9	3.8		1
01363	p,p-DDD	72-54-8	0.11	U	0.11	0.38		1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38		1
01363	p,p-DDT	50-29-3	0.52	U	0.52	0.52		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.32	U	0.32	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.28	U	0.28	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.1	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-334-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203559
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8016 SDG#: DE080-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
based on our experience with the site, and the data is reported.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.53	22.0		1
07914	Boron	7440-42-8	3.23	J	0.979	5.50		1
01650	Calcium	7440-70-2	2,400		6.75	22.0		1
01654	Iron	7439-89-6	21,300		5.18	22.0		1
01656	Lithium	7439-93-2	18.7		0.24	2.2		1
01657	Magnesium	7439-95-4	3,330		2.79	11.0		1
06958	Manganese	7439-96-5	237		0.0858	0.550		1
10145	Phosphorus	7723-14-0	451		0.616	11.0		1
01662	Potassium	7440-09-7	2,480		19.8	55.0		1
01667	Sodium	7440-23-5	1,120		41.0	110		1
07968	Strontium	7440-24-6	16.7		0.0682	0.550		1
06969	Tin	7440-31-5	4.79	J	1.10	11.0		1
06970	Titanium	7440-32-6	921		0.418	1.10		1
10146	Zirconium	7440-67-7	0.924	U	0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.55		0.0880	0.440		2
06126	Barium	7440-39-3	103		0.119	0.440		2
06127	Beryllium	7440-41-7	0.540		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.525		0.0440	0.110		2
06131	Chromium	7440-47-3	17.0		0.132	0.440		2
06132	Cobalt	7440-48-4	6.11		0.0220	0.110		2
06133	Copper	7440-50-8	11.1		0.0726	0.440		2
06135	Lead	7439-92-1	7.93		0.0114	0.220		2
06138	Molybdenum	7439-98-7	1.24		0.0550	0.110		2
06139	Nickel	7440-02-0	11.0		0.110	0.440		2
06141	Selenium	7782-49-2	0.829		0.0440	0.440		2
06142	Silver	7440-22-4	0.0491	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.332		0.0330	0.110		2
06148	Vanadium	7440-62-2	39.1		0.0242	0.110		2
06149	Zinc	7440-66-6	139		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0159	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-334-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203559
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8016 SDG#: DE080-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011	06:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011	03:02	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110450011A	02/16/2011	05:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011	15:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011	07:56	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011	13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011	04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110450011A	02/15/2011	02:35	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011	17:40	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011	17:40	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011	17:40	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011	17:40	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011	17:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011	17:40	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011	17:40	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-334-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203559
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8016 SDG#: DE080-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:40	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:40	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:40	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:40	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:40	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:40	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 16:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 16:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 16:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 16:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 16:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201B	02/23/2011 00:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11045243202A	02/17/2011 02:03	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201B	02/23/2011 13:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11046182101B	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401B	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-335-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203560
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8017 SDG#: DE080-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-335-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203560
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8017 SDG#: DE080-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.86	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.64	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.7 ug/kg. The blank value was not subtracted from the analytical result.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	320	U	320	320		1
10401	MCPP (Mecoprop)	93-65-2	220	U	220	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-335-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203560
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8017 SDG#: DE080-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.072	U	0.072	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.086	U	0.086	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.30	U	0.30	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-335-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203560
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8017 SDG#: DE080-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		5.36	21.3		1
07914	Boron	7440-42-8	3.40	J	0.948	5.33		1
01650	Calcium	7440-70-2	5,220		6.53	21.3		1
01654	Iron	7439-89-6	16,300		5.02	21.3		1
01656	Lithium	7439-93-2	9.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,350		2.71	10.7		1
06958	Manganese	7439-96-5	190		0.0831	0.533		1
10145	Phosphorus	7723-14-0	1,270		0.597	10.7		1
01662	Potassium	7440-09-7	1,860		19.2	53.3		1
01667	Sodium	7440-23-5	728		39.8	107		1
07968	Strontium	7440-24-6	46.9		0.0661	0.533		1
06969	Tin	7440-31-5	1.78	J	1.07	10.7		1
06970	Titanium	7440-32-6	679		0.405	1.07		1
10146	Zirconium	7440-67-7	1.04	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.234		0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.94		0.0869	0.435		2
06126	Barium	7440-39-3	131		0.117	0.435		2
06127	Beryllium	7440-41-7	0.425		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.549		0.0435	0.109		2
06131	Chromium	7440-47-3	17.8		0.130	0.435		2
06132	Cobalt	7440-48-4	6.18		0.0217	0.109		2
06133	Copper	7440-50-8	15.0		0.0717	0.435		2
06135	Lead	7439-92-1	4.35		0.0113	0.217		2
06138	Molybdenum	7439-98-7	4.21		0.0543	0.109		2
06139	Nickel	7440-02-0	11.2		0.109	0.435		2
06141	Selenium	7782-49-2	7.48		0.0435	0.435		2
06142	Silver	7440-22-4	0.0293	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.140		0.0326	0.109		2
06148	Vanadium	7440-62-2	46.5		0.0239	0.109		2
06149	Zinc	7440-66-6	58.3		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0499	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-335-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203560
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8017 SDG#: DE080-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	416	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.10	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLF026	02/23/2011 07:13	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11047SLD026	02/18/2011 03:34	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11047SLD026	02/17/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11052SLF026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110520023A	02/22/2011 23:13	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110420002A	02/16/2011 16:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110460020A	03/04/2011 08:14	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110420002A	02/11/2011 13:00	Wanda F Oswald	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110460020A	02/16/2011 04:40	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110520023A	02/22/2011 02:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-335-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203560
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8017 SDG#: DE080-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	110455708001	02/15/2011 17:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110451026001D	02/24/2011 16:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110451026001C	02/24/2011 16:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110451026001B	02/24/2011 16:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110451026001A	02/24/2011 16:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110455711001	02/15/2011 10:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110455708001	02/14/2011 20:24	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110451026001	02/14/2011 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110455711001	02/14/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11053621202B	02/23/2011 17:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621201B	02/23/2011 00:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11045243202A	02/17/2011 02:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11053621202B	02/22/2011 14:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621201B	02/23/2011 13:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11046182101B	02/15/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11046039401B	02/15/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11045243202A	02/14/2011 20:20	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-021011 Water**
SSFL Area IV Collocated Soil Sampling
TB-021011

LLI Sample # WW 6203561
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:00

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8018 SDG#: DE080-18TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-021011 Water**
SSFL Area IV Collocated Soil Sampling
TB-021011

LLI Sample # WW 6203561
LLI Group # 1232736
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:00

Submitted: 02/11/2011 09:40
Reported: 03/13/2011 18:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8018 SDG#: DE080-18TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110451AA	02/14/2011	11:08	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110451AA	02/14/2011	11:31	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110451AA	02/14/2011	11:08	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110451AA	02/14/2011	11:31	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11048A20A	02/18/2011	13:04	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11048A20A	02/18/2011	13:04	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110421AA	Sample number(s): 6203543,6203545,6203548-6203550									
Acetone	9.5		6.7	8.0	ug/kg	139	136	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	101	98	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	83	84	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	105	102	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96	92	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	90	70-120	4	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	86	84	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	114	110	46-153	3	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	96	95	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	90	88	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	83	80	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	98	69-122	7	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	96	80-120	4	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	82	79	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	113	113	43-146	0	30
Chloroform	0.23	J	0.12	4.0	ug/kg	104	100	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	78	77	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	86	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	90	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	57	50	22-131	15	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91	93	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	100	95	77-120	4	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96	95	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	99	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93	92	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88	87	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	91	89	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	62	58	20-120	5	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	97	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	107	103	71-129	4	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	95	73-123	6	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	96	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	100	95	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97	95	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97	96	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	97	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100	95	77-120	5	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	84	83	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	87	77-120	0	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	95	93	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	103	96	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	81	75*	78-120	8	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	84	81	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	82	82	45-155	0	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	92	89	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	92	91	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	93	92	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	73	72	61-134	0	30
Methylene Chloride	0.54	J	0.24	4.0	ug/kg	97	93	76-124	4	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	96	95	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	98	94	76-120	4	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100	98	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92	92	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	100	95	77-120	6	30
Toluene	0.11	J	0.08	4.0	ug/kg	99	96	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	80	81	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	73	73	68-120	0	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	97	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	98	80-120	4	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97	95	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97	90	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96	96	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93	93	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	93	92	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	80	77	53-120	3	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	98	80-120	4	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	89	87	80-120	2	30
Batch number: E110451AA	Sample number(s): 6203561									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	103	80-123	1	30
Batch number: E110461AA	Sample number(s): 6203543,6203545,6203548-6203550									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	108	117	70-130	8	30
Batch number: Y110451AA	Sample number(s): 6203561									
Acetone	6	U	6.	20	ug/l	126	124	49-234	2	30
Benzene	0.5	U	0.5	5	ug/l	99	100	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	98	103	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	102	108	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	97	99	80-120	2	30
Bromoform	1	U	1.	5	ug/l	88	94	61-120	7	30
Bromomethane	1	U	1.	5	ug/l	86	81	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	123	126	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	100	97	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	102	99	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	97	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	101	97	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	102	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	79	71	49-129	11	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	114	127	56-129	11	30
Chloroform	0.8	U	0.8	5	ug/l	101	101	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	91	84	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	100	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	100	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	60	60	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	99	108	56-126	9	30
Dibromochloromethane	1	U	1.	5	ug/l	93	101	80-120	8	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	105	80-120	7	30
Dibromomethane	1	U	1.	5	ug/l	98	105	80-120	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	97	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	97	99	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	99	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	76	47-120	10	30
1,1-Dichloroethane	1	U	1.	5	ug/l	101	102	79-120	1	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	111	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	100	98	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	102	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	101	109	80-120	7	30
2,2-Dichloropropane	1	U	1.	5	ug/l	100	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	100	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	100	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	97	104	79-120	7	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	99	79-120	0	30
Freon 113	2	U	2.	10	ug/l	108	99	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	90	95	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	90	87	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	115	120	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	99	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	98	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	102	107	76-120	6	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	107	112	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	101	105	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	96	98	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	100	80-120	5	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	107	71-120	7	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	96	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	99	101	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	95	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	93	91	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	106	80-120	6	30
Trichloroethene	1	U	1.	5	ug/l	98	97	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	104	95	64-129	9	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	111	80-120	11	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	100	102	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	100	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	95	86	65-125	10	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
Batch number: 11045SLF026	Sample number(s): 6203543,6203545,6203548-6203553									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	95		70-130		
Batch number: 11045WAC026	Sample number(s): 6203542									
Aniline	1	U	1.	5	ug/l	67	70	49-101	4	30
Benzidine	20	U	20.	60	ug/l	75	80	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	29	28	10-69	3	30
Benzyl alcohol	5	U	5.	15	ug/l	69	67	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	105	99	82-117	5	30
Carbazole	1	U	1.	5	ug/l	96	95	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	90	87	70-123	3	30
4-Chloroaniline	1	U	1.	5	ug/l	60	66	42-124	10	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	94	94	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	92	92	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	95	95	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	95	94	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	86	85	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	98	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	97	95	83-108	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	1	U	1.	5	ug/l	85	86	55-118	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	85	86	50-119	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	87	88	53-119	0	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	70	75	49-111	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	92	93	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	90	92	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	94	94	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	92	88	78-119	5	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	75	73	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	97	81-115	0	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	97	96	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	102	99	78-116	3	30
Hexachlorobenzene	1	U	1.	5	ug/l	104	102	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	96	96	57-124	0	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	70	68	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	86	85	52-113	1	30
Isophorone	1	U	1.	5	ug/l	94	93	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	76	73	64-101	5	30
4-Methylphenol	2	U	2.	5	ug/l	74	70	61-103	6	30
2-Nitroaniline	1	U	1.	5	ug/l	94	96	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	91	91	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	71	71	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	94	93	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	94	95	86-120	1	30
4-Nitrophenol	10	U	10.	30	ug/l	42	37	16-78	14	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	90	92	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	97	96	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	75	74	53-110	2	30
Phenol	1	U	1.	5	ug/l	31	29	21-67	9	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	93	71-112	0	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	95	97	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	96	97	81-113	1	30
Batch number: 11045WAF026	Sample number(s): 6203542									
Acenaphthene	0.010	U	0.010	0.050	ug/l	99	103	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	103	106	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	103	107	66-111	4	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	116*	118*	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	107	110	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	111	122	69-123	9	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	105	101	57-131	5	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	109	102	59-130	7	30
Butylbenzylphthalate	0.13	J	0.050	1.0	ug/l	98	110	40-138	12	30
Di-n-butylphthalate	0.14	J	0.050	1.0	ug/l	101	108	74-131	7	30
Chrysene	0.010	U	0.010	0.050	ug/l	110	114	76-116	3	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	108	105	55-134	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	94	97	57-134	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	68	65	40-119	4	30
Bis(2-Ethylhexyl)phthalate	0.19	J	0.050	1.0	ug/l	128	136	57-154	6	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	101	108	75-116	7	30
Fluorene	0.010	U	0.010	0.050	ug/l	105	109	75-114	3	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	108	106	69-124	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	97	100	71-117	3	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	87	90	75-115	3	30
Naphthalene	0.010	U	0.010	0.050	ug/l	95	96	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	71	72	36-89	2	30
Di-n-octylphthalate	0.18	J	0.050	1.0	ug/l	115	121	57-145	5	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	99	103	76-111	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Pyrene	0.010	U	0.010	0.050	ug/l	109	113	69-118	4	30
Batch number: 11047SLD026	Sample number(s): 6203541,6203543,6203545-6203557,6203559-6203560									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	107		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	116		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	121		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	114		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	109		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	8.7	J	6.0	18	ug/kg	132		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	93		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	114		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	97		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	128		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 11052SLF026	Sample number(s): 6203541,6203543,6203545-6203557,6203559-6203560									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	97		75-122		
Aniline	170 U		170.	500	ug/kg	60		34-94		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	104		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	102		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	98		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	103		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	106		67-125		
Benzoic acid	170 U		170.	500	ug/kg	89		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	106		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	99		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	26		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	91		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chrysene	17	U	17.	170	ug/kg	104		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	104		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	68		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	66		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	98		77-111		
bis(2-Ethylhexyl)phthalate	33	J	17.	330	ug/kg	103		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	95		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	104		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	103		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	91		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	105		64-119		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	88		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	81		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	87		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	104		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	67		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	85		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11035A34C	Sample number(s): 6203543,6203545,6203548-6203550									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	69	67-119	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11048A20A	Sample number(s): 6203561									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 110460005A	Sample number(s): 6203543,6203545,6203548-6203553									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	123*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	124	119	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	124	118	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	121		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	119		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
HMX	100 U		100.	300	ug/kg	110		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	122*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	100		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	118		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	117		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	120		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	121		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 110450008A	Sample number(s): 6203543,6203545,6203548-6203553									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	95		80-126		
Batch number: 110450011A	Sample number(s): 6203555-6203557,6203559									
2,4-D	1.2	U	1.2	3.6	ug/kg	88		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	62		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	85		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	75		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	13		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	96		60-141		
MCPA	76	U	76.	250	ug/kg	84		34-113		
MCPP (Mecoprop)	88	J	75.	250	ug/kg	81		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	84		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	78		48-138		
Batch number: 110470013A	Sample number(s): 6203542									
2,4-D	0.16	U	0.16	0.50	ug/l	108	108	45-128	0	30
Dalapon	0.25	U	0.25	1.3	ug/l	79	76	40-100	4	30
2,4-DB	0.30	U	0.30	1.0	ug/l	96	96	41-138	0	30
Dicamba	0.080	U	0.080	0.30	ug/l	100	96	51-144	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	98*	95*	23-93	2	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	116	112	72-145	4	30
MCPA	300 U		300.	1,000	ug/l	100	100	69-129	0	30
MCPP	50	U	50.	200	ug/l	96	96	66-132	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	92	88	53-141	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	100	100	56-135	0	30
Batch number: 110520023A	Sample number(s): 6203541,6203546-6203547,6203551-6203554,6203560									
2,4-D	1.2	U	1.2	3.6	ug/kg	89		40-140		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dalapon	4.4	U	4.4	9.0	ug/kg	29		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	82		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	80		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	19		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	98		60-141		
MCPA	76	U	76.	250	ug/kg	99		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	77		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	83		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	77		48-138		
Batch number: 110470012A	Sample number(s): 6203546									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	102		85-115		
Batch number: 110420002A	Sample number(s): 6203541,6203546-6203547,6203554-6203557,6203559-6203560									
Aldrin	0.066	U	0.066	0.17	ug/kg	133		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	97		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	135		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	103		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	98		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	70		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	117		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	131		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	95		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	98		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	123		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	127		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	103		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110460015A	Sample number(s): 6203551-6203553									
Aldrin	0.066	U	0.066	0.17	ug/kg	118		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	67		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	81		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	76		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	82		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	118		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	95		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	88		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	64		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	112		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	120		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	86		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	82		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	117		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	82		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	115		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	95		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110460020A	Sample number(s): 6203541,6203543,6203545,6203547-6203557,6203559-6203560									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	63	60	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	97		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110470002A	Sample number(s): 6203542									
Aldrin	0.0020	U	0.0020	0.010	ug/l	101	98	54-159	3	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	102	102	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	100	102	73-147	2	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	111	111	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	105	110	71-139	5	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	105	100	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	100	90	53-126	11	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	103	103	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	105	105	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	111	101	68-128	10	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	105	100	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	105	100	71-142	5	30
Endrin	0.0081	U	0.0081	0.020	ug/l	90	65	52-132	32*	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	105	110	68-139	5	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	110	120	69-146	9	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	100	102	57-126	2	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	102	101	73-156	1	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	100	92	52-133	8	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 110470003A	Sample number(s): 6203542									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	68	70	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	96	100	68-119	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	94	98	68-121	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110520008A	Sample number(s): 6203546									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	57	70	36-106	21	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	207*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	235*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110470026A	Sample number(s): 6203543,6203545,6203548-6203553									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	78		66-113		
Batch number: 110420012A	Sample number(s): 6203543,6203545,6203548-6203553									
Ethanol	100	U	100.	500	ug/kg	98		75-112		
Isopropanol	100	U	100.	500	ug/kg	101		75-125		
Methanol	100	U	100.	500	ug/kg	94		75-134		
Batch number: 110470017A	Sample number(s): 6203543,6203545,6203548-6203553									
Diethylene glycol	5.0	U	5.0	13	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	89		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		
Batch number: 110460012A	Sample number(s): 6203543,6203545,6203548-6203553									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
Batch number: 110451026001A	Sample number(s): 6203541,6203543,6203545-6203560									
Antimony	0.0600	U	0.0600	0.200	mg/kg	87		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	102		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	106		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.117	J	0.0660	0.400	mg/kg	101		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	103		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	105		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	104		78-122		
Batch number: 110451026001B	Sample number(s): 6203541,6203543,6203545-6203560									
Selenium	0.0400	U	0.0400	0.400	mg/kg	112		79-122		
Batch number: 110451026001C	Sample number(s): 6203541,6203543,6203545-6203560									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	103		78-122		
Batch number: 110451026001D	Sample number(s): 6203541,6203543,6203545-6203560									
Barium	0.108	U	0.108	0.400	mg/kg	101		79-121		
Batch number: 110451848006	Sample number(s): 6203542									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aluminum	0.0834 U	0.0834	0.200	mg/l	98	97	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	101	100	90-110	1	20
Calcium	0.0894 J	0.0702	0.200	mg/l	100	99	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	100	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	96	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	101	100	90-110	2	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	103	101	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	99	97	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	92	90	87-114	2	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	105	104	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	97	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	101	100	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	100	100	80-120	1	20
Batch number: 110455708001	Sample number(s): 6203541,6203543,6203545-6203560								
Aluminum	5.03 U	5.03	20.0	mg/kg	98		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	9.29 J	6.13	20.0	mg/kg	101		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	96		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	101		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	0.808 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3 U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	105		79-121		
Tin	1.48 J	1.00	10.0	mg/kg	104		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	95		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110455711001	Sample number(s): 6203541,6203543,6203545-6203560								
Mercury	0.0027 U	0.0027	0.0951	mg/kg	102		88-123		
Batch number: 110455713002	Sample number(s): 6203542								
Mercury	0.000050 U	0.00005 0	0.00020	mg/l	108	104	80-120	4	20
Batch number: 110456050006A	Sample number(s): 6203542								
Antimony	0.00030 U	0.00030	0.0010	mg/l	119*	104	87-110	14	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	109	110	86-111	1	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	113*	115*	90-112	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	113	111	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	109	111	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	108	107	80-120	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	108	107	90-113	1	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	110	111	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	114*	116*	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	113	113	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	111	115	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	110	113	80-120	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	112	111	80-120	1	20
Batch number: 110456050006B	Sample number(s): 6203542								
Selenium	0.00025 U	0.00025	0.0020	mg/l	109	109	85-114	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110456050006C	Sample number(s): 6203542								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	116	113	80-120	3	20
Batch number: 110456050006D	Sample number(s): 6203542								
Barium	0.00053 U	0.00053	0.0020	mg/l	107	115*	88-113	7	20
Batch number: 11042196401A	Sample number(s): 6203542								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	101	100	90-110	1	20
Batch number: 11045243202A	Sample number(s): 6203541,6203543,6203545-6203556,6203558-6203560								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11047196902C	Sample number(s): 6203542								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	99	99	90-110	0	20
Batch number: 11048102201A	Sample number(s): 6203543,6203545,6203548-6203553								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	94		80-120		
Batch number: 11053621202A	Sample number(s): 6203541,6203543,6203545-6203550								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	91		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11053621202B	Sample number(s): 6203551-6203556,6203558-6203560								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	91		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11054621201A	Sample number(s): 6203541,6203543,6203545-6203552								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11054621201B	Sample number(s): 6203553-6203556,6203558-6203560								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11059199401A	Sample number(s): 6203542								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	101	104	85-115	3	20
Batch number: 11046039401A	Sample number(s): 6203541,6203543,6203545-6203550								
22a pH by 9045C					100		95-105		
Batch number: 11046039401B	Sample number(s): 6203551-6203555,6203558-6203560								
22a pH by 9045C					100		95-105		
Batch number: 11046182101A	Sample number(s): 6203541,6203543,6203545-6203550								
32a OR Potential					99		98-102		
Batch number: 11046182101B	Sample number(s): 6203551-6203555,6203558-6203560								
32a OR Potential					99		98-102		
Batch number: 11052162401B	Sample number(s): 6203541,6203546-6203547,6203554-6203560								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
Batch number: 11054162401B	Sample number(s): 6203543,6203545,6203548-6203553								
28a Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11045SLF026	Sample number(s): 6203543,6203545,6203548-6203553 UNSPK: P202505								
N-Nitrosodimethylamine	90	88	70-130	1	30				
Batch number: 11047SLD026	Sample number(s): 6203541,6203543,6203545-6203557,6203559-6203560 UNSPK: 6203555								
Acenaphthene	100	96	63-105	4	30				
Acenaphthylene	100	101	67-114	1	30				
Anthracene	108	100	60-122	8	30				
Benzo(a)anthracene	257*	111	59-128	78*	30				
Benzo(a)pyrene	307*	109	45-138	94*	30				
Benzo(b)fluoranthene	402*	125	43-155	103*	30				
Benzo(g,h,i)perylene	94	61	33-141	40*	30				
Benzo(k)fluoranthene	236*	114	42-144	69*	30				
Butylbenzylphthalate	147	134	57-173	9	30				
Di-n-butylphthalate	119	118	65-148	0	30				
Chrysene	290*	103	48-134	93*	30				
Dibenz(a,h)anthracene	78	82	22-133	5	30				
Diethylphthalate	116	114	70-136	2	30				
Dimethylphthalate	110	110	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	139	124	39-167	10	30				
Fluoranthene	152	99	26-166	41*	30				
Fluorene	102	101	66-122	1	30				
Indeno(1,2,3-cd)pyrene	108	80	21-143	30	30				
1-Methylnaphthalene	95	94	72-123	1	30				
2-Methylnaphthalene	84	84	64-103	0	30				
Naphthalene	96	94	61-102	2	30				
N-Nitrosodimethylamine	105	107	48-113	2	30				
Di-n-octylphthalate	193*	163	40-192	17	30				
Phenanthrene	101	98	12-165	4	30				
Pyrene	214*	104	15-153	67*	30				
Batch number: 11052SLF026	Sample number(s): 6203541,6203543,6203545-6203557,6203559-6203560 UNSPK: 6203555								
Acenaphthene	98	96	75-115	2	30				
Acenaphthylene	102	100	81-110	2	30				
Aniline	72	61	35-95	15	30				
Anthracene	100	99	75-115	2	30				
Benzidine	61	48	35-141	23	30				
Benzo(a)anthracene	105	107	65-122	2	30				
Benzo(a)pyrene	106	106	57-126	0	30				
Benzo(b)fluoranthene	112	113	59-125	1	30				
Benzo(g,h,i)perylene	112	110	59-127	2	30				
Benzo(k)fluoranthene	98	96	56-132	2	30				
Benzoic acid	80	78	10-173	2	30				
Benzyl alcohol	95	96	67-115	0	30				
4-Bromophenyl-phenylether	110	109	67-129	1	30				
Butylbenzylphthalate	103	104	73-134	2	30				
Di-n-butylphthalate	99	97	67-123	2	30				
Carbazole	96	97	64-120	1	30				
4-Chloro-3-methylphenol	92	90	76-110	2	30				
4-Chloroaniline	39	32	23-95	20	30				
bis(2-Chloroethoxy)methane	96	95	75-104	1	30				
bis(2-Chloroethyl)ether	95	92	60-116	3	30				
bis(2-Chloroisopropyl)ether	92	90	55-142	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloronaphthalene	79	90	50-141	13	30				
2-Chlorophenol	98	97	73-121	1	30				
4-Chlorophenyl-phenylether	102	102	80-109	0	30				
Chrysene	106	108	62-128	2	30				
Dibenz(a,h)anthracene	110	108	65-125	1	30				
Dibenzofuran	98	97	71-112	1	30				
1,2-Dichlorobenzene	92	93	66-108	0	30				
1,3-Dichlorobenzene	92	91	63-109	1	30				
1,4-Dichlorobenzene	93	92	70-100	1	30				
3,3'-Dichlorobenzidine	66	59	16-119	12	30				
2,4-Dichlorophenol	101	101	78-117	0	30				
Diethylphthalate	97	96	66-118	1	30				
2,4-Dimethylphenol	97	96	78-110	1	30				
3,5-Dimethylphenol	100	97	70-130	2	30				
Dimethylphthalate	98	98	64-118	0	30				
4,6-Dinitro-2-methylphenol	88	88	24-116	0	30				
2,4-Dinitrophenol	63	63	20-143	0	30				
2,4-Dinitrotoluene	97	97	73-113	0	30				
2,6-Dinitrotoluene	98	96	69-123	3	30				
1,2-Diphenylhydrazine	100	101	71-129	1	30				
bis(2-Ethylhexyl)phthalate	102	106	63-122	4	30				
Fluoranthene	102	103	73-112	1	30				
Fluorene	98	96	77-111	1	30				
Hexachlorobenzene	108	108	77-114	0	30				
Hexachlorobutadiene	106	102	62-120	3	30				
Hexachlorocyclopentadiene	92	87	10-153	5	30				
Hexachloroethane	90	90	57-109	0	30				
Indeno(1,2,3-cd)pyrene	109	109	61-126	0	30				
Isophorone	94	91	73-102	2	30				
1-Methylnaphthalene	97	96	73-112	1	30				
2-Methylnaphthalene	92	90	76-114	2	30				
2-Methylphenol	93	93	75-111	0	30				
4-Methylphenol	92	91	71-111	0	30				
Naphthalene	95	93	72-116	2	30				
2-Nitroaniline	98	96	67-125	2	30				
3-Nitroaniline	91	87	59-122	5	30				
4-Nitroaniline	71	69	52-112	3	30				
Nitrobenzene	95	94	72-106	2	30				
2-Nitrophenol	97	97	74-115	0	30				
4-Nitrophenol	88	89	54-113	0	30				
N-Nitroso-di-n-propylamine	90	87	60-116	4	30				
N-Nitrosodimethylamine	90	93	47-116	3	30				
N-Nitrosodiphenylamine	102	102	86-145	1	30				
Di-n-octylphthalate	107	106	56-126	0	30				
Pentachlorophenol	75	74	28-127	2	30				
Phenanthrene	99	98	65-125	1	30				
Phenol	88	87	58-126	1	30				
Pyrene	106	107	74-126	1	30				
1,2,4-Trichlorobenzene	102	98	72-115	4	30				
2,4,5-Trichlorophenol	103	99	78-109	3	30				
2,4,6-Trichlorophenol	103	105	77-115	2	30				

Batch number: 11035A34C Sample number(s): 6203543,6203545,6203548-6203550 UNSPK: P197571

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
9a TPH by EPA 8015B Gas C5-C12	60	60	39-118	6	30				
Batch number: 110460005A	Sample number(s): 6203543,6203545,6203548-6203553 UNSPK: P201155								
4-Amino-2,6-Dinitrotoluene	85	105	80-127	21	50				
2-Amino-4,6-Dinitrotoluene	87	106	80-137	20	50				
1,3-Dinitrobenzene	91	107	38-166	16	50				
2,4-Dinitrotoluene	89	105	80-131	17	50				
2,6-Dinitrotoluene	91	106	80-127	15	50				
HMX	75	95	63-128	24	50				
Nitrobenzene	93	104	80-125	11	50				
Nitroglycerin	77*	93	80-120	19	50				
2-Nitrotoluene	92	105	80-122	14	50				
3-Nitrotoluene	92	105	72-119	13	50				
4-Nitrotoluene	91	103	80-125	13	50				
PETN	87	110	80-121	23	50				
RDX	79	99	75-129	22	50				
Tetryl	69	89	55-174	26	50				
1,3,5-Trinitrobenzene	88	105	82-126	17	50				
2,4,6-Trinitrotoluene	87	105	82-130	19	50				
Batch number: 110450008A	Sample number(s): 6203543,6203545,6203548-6203553 UNSPK: P201155								
17a Formaldehyde by 8315A	98	93	80-120	5	50				
Batch number: 110450011A	Sample number(s): 6203555-6203557,6203559 UNSPK: 6203555								
2,4-D	122	109	28-161	12	35				
Dalapon	39	31	12-86	22	50				
2,4-DB	84	73	20-170	11	50				
Dicamba	80	83	33-120	4	50				
Dinoseb	16	20	1-44	20	35				
2,4-DP (Dichlorprop)	99	100	55-141	0	50				
MCPA	93	78	31-184	15	50				
MCPP (Mecoprop)	91	80	16-174	12	50				
2,4,5-T	90	86	25-132	5	35				
2,4,5-TP	73	76	10-183	3	35				
Batch number: 110520023A	Sample number(s): 6203541,6203546-6203547,6203551-6203554,6203560 UNSPK: P201161								
2,4-D	98	83	28-161	16	35				
Dalapon	39	41	12-86	6	50				
2,4-DB	112	131	20-170	16	50				
Dicamba	59	93	33-120	44	50				
Dinoseb	17	19	1-44	8	35				
2,4-DP (Dichlorprop)	100	101	55-141	1	50				
MCPA	76	72	31-184	4	50				
MCPP (Mecoprop)	95	124	16-174	27	50				
2,4,5-T	83	57	25-132	38*	35				
2,4,5-TP	76	78	10-183	3	35				
Batch number: 110470012A	Sample number(s): 6203546 UNSPK: P206985								
6a Perchlorate EPA 6850	107	107	80-120	0	20				
Batch number: 110420002A	Sample number(s): 6203541,6203546-6203547,6203554-6203557,6203559-6203560 UNSPK: 6203555								
Aldrin	115	118	16-126	3	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Alpha BHC	64	64	10-129	0	50				
Beta BHC	84	78	14-147	8	50				
Gamma BHC - Lindane	76	73	10-140	4	50				
p,p-DDD	87	85	16-163	2	50				
p,p-DDE	108	112	18-161	4	50				
p,p-DDT	102	131	10-176	25	50				
Delta BHC	75	78	23-140	4	50				
Dieldrin	73	79	19-154	8	50				
Endosulfan I	48	52	16-137	6	50				
Endosulfan II	80	92	28-154	14	50				
Endosulfan Sulfate	94	94	21-160	0	50				
Endrin	70	76	11-149	8	50				
Endrin Aldehyde	58	64	10-148	10	35				
Endrin Ketone	108	98	22-165	9	50				
Heptachlor	76	76	13-126	0	50				
Heptachlor Epoxide	100	121	13-157	19	50				
Methoxychlor	79	59	32-147	29	50				
Batch number: 110460015A	Sample number(s): 6203551-6203553 UNSPK: 6203551								
Aldrin	103	100	16-126	3	50				
Alpha BHC	64	61	10-129	5	50				
Beta BHC	91	75	14-147	19	50				
Gamma BHC - Lindane	64	61	10-140	5	50				
p,p-DDD	69	63	16-163	9	50				
p,p-DDE	95	88	18-161	8	50				
p,p-DDT	85	83	10-176	2	50				
Delta BHC	72	69	23-140	4	50				
Dieldrin	70	62	19-154	11	50				
Endosulfan I	48	39	16-137	21	50				
Endosulfan II	91	75	28-154	19	50				
Endosulfan Sulfate	78	82	21-160	4	50				
Endrin	79	71	11-149	10	50				
Endrin Aldehyde	71	53	10-148	29	35				
Endrin Ketone	97	114	22-165	16	50				
Heptachlor	70	70	13-126	0	50				
Heptachlor Epoxide	85	88	13-157	4	50				
Methoxychlor	90	53	32-147	51*	50				
Batch number: 110460020A	Sample number(s): 6203541,6203543,6203545,6203547-6203557,6203559-6203560 UNSPK: 6203555								
PCB-1016	93	90	29-146	3	50				
PCB-1260	97	110	39-149	12	50				
Batch number: 110520008A	Sample number(s): 6203546 UNSPK: P206985								
PCB-1016	86	81	29-146	6	50				
PCB-1260	102	91	39-149	11	50				
Batch number: 110470026A	Sample number(s): 6203543,6203545,6203548-6203553 UNSPK: P206985								
EFH (C12-C14)	85	89	49-123	5	20				
EFH (C15-C20)	290*	449*	49-123	43*	20				
EFH (C21-C30)	1321*	2098*	49-123	43*	20				
EFH (C30 - C40)	1212*	1816*	49-123	36*	20				
EFH (C8-C11)	75	77	49-123	3	20				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110420012A	Sample number(s): 6203543,6203545,6203548-6203553 UNSPK: 6203545								
Ethanol	91	93	24-143	2	20				
Isopropanol	93	94	75-125	1	20				
Methanol	89	95	45-136	7	20				
Batch number: 110470017A	Sample number(s): 6203543,6203545,6203548-6203553 UNSPK: P206985								
Diethylene glycol	82	82	59-109	0	20				
Ethylene glycol	80	81	63-107	0	20				
Propylene glycol	86	87	63-107	1	20				
Batch number: 110460012A	Sample number(s): 6203543,6203545,6203548-6203553 UNSPK: 6203543								
m-Terphenyl	92	93	75-125	1	20				
o-Terphenyl	102	104	75-125	2	20				
p-Terphenyl	82	81	75-125	1	20				
Batch number: 110451026001A	Sample number(s): 6203541,6203543,6203545-6203560 UNSPK: 6203555 BKG: 6203555								
Antimony	48*	48*	75-125	0	20	0.108 J	0.251	80* (1)	20
Arsenic	119	131*	75-125	6	20	1.30	2.90	76* (1)	20
Beryllium	106	106	75-125	0	20	0.176	0.270	42* (1)	20
Cadmium	114	111	75-125	2	20	0.101	0.210	70* (1)	20
Chromium	119	117	75-125	1	20	6.92	12.6	58*	20
Cobalt	103	99	75-125	4	20	4.16	4.29	3	20
Copper	95	84	75-125	6	20	8.23	12.7	42*	20
Lead	125	120	75-125	2	20	2.73	5.31	64*	20
Nickel	124	103	75-125	14	20	4.58	6.19	30*	20
Silver	119	114	75-125	4	20	0.0152 J	0.0387 J	87* (1)	20
Thallium	94	100	75-125	4	20	0.149	0.144	3 (1)	20
Vanadium	239*	93	75-125	31*	20	30.8	45.9	39*	20
Zinc	156 (2)	105 (2)	75-125	7	20	57.5	134	80*	20
Batch number: 110451026001B	Sample number(s): 6203541,6203543,6203545-6203560 UNSPK: 6203555 BKG: 6203555								
Selenium	117	112	75-125	4	20	0.0606 J	0.140 J	79* (1)	20
Batch number: 110451026001C	Sample number(s): 6203541,6203543,6203545-6203560 UNSPK: 6203555 BKG: 6203555								
Molybdenum	116	109	75-125	7	20	0.188	0.315	51* (1)	20
Batch number: 110451026001D	Sample number(s): 6203541,6203543,6203545-6203560 UNSPK: 6203555 BKG: 6203555								
Barium	63 (2)	131 (2)	75-125	10	20	58.8	66.0	12	20
Batch number: 110455708001	Sample number(s): 6203541,6203543,6203545-6203560 UNSPK: 6203555 BKG: 6203555								
Aluminum	1434 (2)	1664 (2)	75-125	6	20	5,110	4,830	6	20
Boron	102	102	84-115	0	20	1.40 J	1.17 J	18 (1)	20
Calcium	438 (2)	335 (2)	75-125	10	20	2,450	2,230	9	20
Iron	4009 (2)	1994 (2)	75-125	12	20	13,200	13,100	1	20
Lithium	105	105	82-114	0	20	6.2	6.7	8 (1)	20
Magnesium	572 (2)	442 (2)	75-125	8	20	2,130	2,040	5	20
Manganese	189*	166*	75-125	5	20	125	128	3	20
Phosphorus	162 (2)	79 (2)	75-125	16	20	399	400	0	20
Potassium	147*	152*	75-125	2	20	1,400	1,370	2	20
Sodium	119	120	75-125	0	20	213	186	13 (1)	20

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Strontium	113	105	75-115	6	20	18.5		16.6		11	20
Tin	96	96	80-110	0	20	1.71	J	1.55	J	10 (1)	20
Titanium	527 (2)	321 (2)	75-125	20	20	616		642		4	20
Zirconium	101	102	75-125	1	20	0.816	U	0.824	U	0 (1)	20
Batch number: 110455711001	Sample number(s): 6203541,6203543,6203545-6203560 UNSPK: 6203555 BKG: 6203555										
Mercury	100	102	65-135	3	20	0.0118	J	0.0119	J	1 (1)	20
Batch number: 11045243202A	Sample number(s): 6203541,6203543,6203545-6203556,6203558-6203560 UNSPK: 6203555 BKG: 6203555										
3a Cr VI by EPA 7199	93		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11048102201A	Sample number(s): 6203543,6203545,6203548-6203553 UNSPK: 6203543 BKG: 6203543										
21a Cyanide by 9012B	89		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11053621202A	Sample number(s): 6203541,6203543,6203545-6203550 UNSPK: P201161 BKG: P201161										
11a Anions by 300.0 - Fluoride	83		80-120			2.1		2.4		14 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11053621202B	Sample number(s): 6203551-6203556,6203558-6203560 UNSPK: 6203555 BKG: 6203555										
11a Anions by 300.0 - Fluoride	96		80-120			0.80	U	0.80	U	0 (1)	20
11a Anions by 300.0 - Nitrate	103		80-120			1.2	J	1.1	J	10 (1)	20
Batch number: 11054621201A	Sample number(s): 6203541,6203543,6203545-6203552 UNSPK: 6203541 BKG: 6203541										
7a Perchlorate EPA 314.0	99		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11054621201B	Sample number(s): 6203553-6203556,6203558-6203560 UNSPK: 6203555 BKG: 6203555										
7a Perchlorate EPA 314.0	130*		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11046039401A	Sample number(s): 6203541,6203543,6203545-6203550 BKG: 6203541										
22a pH by 9045C						6.97		6.97		0	1
Batch number: 11046039401B	Sample number(s): 6203551-6203555,6203558-6203560 BKG: 6203555										
22a pH by 9045C						8.64		8.66		0	1
Batch number: 11046182101A	Sample number(s): 6203541,6203543,6203545-6203550 BKG: 6203541										
32a OR Potential						360		361		0	6
Batch number: 11046182101B	Sample number(s): 6203551-6203555,6203558-6203560 BKG: 6203555										
32a OR Potential						400		398		1	6
Batch number: 11052162401B	Sample number(s): 6203541,6203546-6203547,6203554-6203560 BKG: 6203555										
28a Moisture Content by 160.3						5.8		5.8		1	20
28a Moisture Content by 160.3						5.8		5.8		1	20
28a Moisture Content by 160.3						5.8		5.8		1	20
Batch number: 11054162401B	Sample number(s): 6203543,6203545,6203548-6203553 BKG: 6203548										
28a Moisture Content by 160.3						14.6		13.4		9	20

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Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6203543	111	107	101	90
6203545	112	106	100	87
6203548	110	105	99	85
6203549	111	106	100	87
6203550	113	107	100	87
Blank	112	111	98	89
LCS	103	107	106	107
LCSD	102	107	106	105
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110451AA

	Toluene-d8
6203561	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110461AA

	Toluene-d8
6203543	94
6203545	94
6203548	94
6203549	94
6203550	95
Blank	96
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6203561	101	103	104	99
Blank	99	101	103	98
LCS	100	103	104	101
LCSD	100	101	105	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 19a NDMA by 1625C
Batch number: 11045SLF026

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Quality Control Summary

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Surrogate Quality Control

	N-Nitrosodimethylamine-d6
6203543	411*
6203545	445*
6203548	454*
6203549	507*
6203550	456*
6203551	525*
6203552	406*
6203553	517*
Blank	87
LCS	76
MS	477*
MSD	505*
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11045WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6203542	39	22	85	81	83	88
Blank	44	25	90	78	84	87
LCS	51	31	93	89	94	92
LCSD	48	29	93	89	94	90
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11045WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6203542	100	86	100
Blank	96	89	105
LCS	107	93	104
LCSD	107	94	106
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11047SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6203541	108	90	107
6203543	89	75	90
6203545	109	92	106
6203546	90	78	89
6203547	91	81	86
6203548	110	90	97
6203549	109	89	100
6203550	102	87	98
6203551	103	89	99
6203552	97	86	121
6203553	91	85	113
6203554	94	88	121
6203555	99	86	102

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Surrogate Quality Control

6203556	114	91	104
6203557	112	93	98
6203559	78	69	104
6203560	108	93	135
Blank	117	100	123
LCS	107	86	99
MS	114	91	104
MSD	112	93	98
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11052SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6203541	84	86	90	81	87	91
6203543	89	93	93	87	93	96
6203545	89	93	88	88	94	94
6203546	82	88	88	86	94	89
6203547	84	88	83	83	92	91
6203548	84	86	87	81	89	89
6203549	82	87	83	84	88	92
6203550	86	90	88	87	91	87
6203551	79	83	80	81	90	87
6203552	86	91	82	87	93	91
6203553	79	82	79	81	87	85
6203554	86	91	84	88	93	88
6203555	88	93	92	88	96	93
6203556	89	93	92	89	95	92
6203557	88	92	92	86	94	94
6203559	85	90	87	86	95	88
6203560	82	87	83	86	93	85
Blank	82	87	90	85	92	88
LCS	87	92	90	86	92	91
MS	89	93	92	89	95	92
MSD	88	92	92	86	94	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11035A34C

	Trifluorotoluene-F
6203543	85
6203545	82
6203548	77
6203549	79
6203550	75
Blank	90
LCS	87
LCSD	86
MS	72
MSD	70
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11048A20A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Surrogate Quality Control

	Trifluorotoluene-F
6203561	86
Blank	87
LCS	117
LCSD	113
Limits:	63-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 110420002A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6203541	84	104
6203546	68	70
6203547	69	93
6203554	69	46
6203555	67	48
6203556	65	79
6203557	62	51
6203559	69	114
6203560	70	78
Blank	87	107
LCS	83	109
MS	65	79
MSD	62	51
Limits:	50-130	20-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110450008A

	Butyraldehyde
6203543	96
6203545	94
6203548	99
6203549	99
6203550	89
6203551	92
6203552	106
6203553	85
Blank	105
LCS	98
MS	106
MSD	100
Limits:	64-126

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110450011A

	2,4-Dichlorophenylacetic acid
6203555	100
6203556	121
6203557	112
6203559	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Surrogate Quality Control

Blank	83
LCS	86
MS	121
MSD	112
Limits:	36-156

Analysis Name: 20a Energetics by 8330A
Batch number: 110460005A

	2-Nitro-m-xylene
6203543	121
6203545	128
6203548	128
6203549	118
6203550	116
6203551	106
6203552	129
6203553	112
Blank	124
LCS	133
LCSD	125
MS	109
MSD	124
Limits:	80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 110460015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6203551	69	92
6203552	67	58
6203553	73	48
Blank	67	102
LCS	63	102
MS	71	66
MSD	69	70
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110460020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6203541	99	97
6203543	80	88
6203545	85	95
6203547	97	87
6203548	88	100
6203549	96	97
6203550	101	95
6203551	63	64
6203552	93	80
6203553	97	77
6203554	96	86
6203555	102	92

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Surrogate Quality Control

6203556	98	84
6203557	98	92
6203559	89	85
6203560	96	89
Blank	91	95
LCS	93	103
LCSD	92	105
MS	98	84
MSD	98	92
Limits:	53-139	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 110470002A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6203542	84	96
Blank	99	98
LCS	95	103
LCSD	94	102
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110470003A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6203542	82	72
Blank	89	81
LCS	103	91
LCSD	104	92
Limits:	30-150	45-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 110470013A

	2,4-Dichlorophenylacetic acid
6203542	84
Blank	89
LCS	102
LCSD	99
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110520008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6203546	92	95
Blank	81	83
LCS	227*	216*
LCSD	88	98
MS	95	92
MSD	85	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Surrogate Quality Control

Limits: 53-139 45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110520023A

	2,4-Dichlorophenylacetic acid
6203541	91
6203546	96
6203547	94
6203551	90
6203552	67
6203553	101
6203554	95
6203560	102
Blank	85
LCS	94
MS	108
MSD	112

Limits: 36-156

Analysis Name: 25a Alcohols by 8015B
Batch number: 110420012A

	Acetone
6203543	92
6203545	94
6203548	83
6203549	97
6203550	92
6203551	95
6203552	96
6203553	100
Blank	105
LCS	104
MS	94
MSD	95

Limits: 42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110460012A

	n-Triacontane-d62
6203543	119
6203545	118
6203548	112
6203549	114
6203550	112
6203551	141
6203552	181*
6203553	123
Blank	108
LCS	110
MS	125
MSD	122

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232736
Reported: 03/13/11 at 06:17 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 27a Glycols by 8015B
Batch number: 110470017A

	Tetramethylene glycol
6203543	79
6203545	80
6203548	75
6203549	83
6203550	78
6203551	83
6203552	82
6203553	87
Blank	87
LCS	95
MS	95
MSD	97
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110470026A

	Chlorobenzene	Orthoterphenyl
6203543	79	100
6203545	82	93
6203548	78	86
6203549	75	85
6203550	80	93
6203551	83	98
6203552	84	98
6203553	78	88
Blank	73	94
LCS	78	95
MS	76	92
MSD	78	97
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

A#13013 Grp# 1232736 Sample# 6203541-61

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex. Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (Surface soil only)	SS ONLY: *Herbicides EPA 8151 (Surface soil only)	VOCs: VOCs/EPA 8260B $	VOCs: 1,4-Dioxane EPA 8260SIM $	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes: Amended COC
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-6-inch sleeve			X	X																				
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	6-1L Amber jars			X	X	X				X	X														RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	1-500 ml poly		X				X	X																	RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	HN03	1-500 ml poly	X																							RINSATE FOR SS TOOL
SL-315-SA5B-SB-3.0-4.0	2.10.2011	1055	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-315-SA5B-SB-3.5	2.10.2011	1051	SOIL	NONE	5-Encores											X	X	X											
~~SL-317-SA5B-SB-3.0-4.0~~	~~2.10.2011~~	~~1206~~	~~SOIL~~	~~NONE~~	~~4-16 oz. jars~~	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
~~SL-317-SA5B-SB-3.5~~	2.10.2011	1202	~~SOIL~~	~~NONE~~	~~5-Encores~~											X	X	X											
SL-319-SA5B-SB-4.0-5.0	2.10.2011	1527	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-319-SA5B-SB-4.5	2.10.2011	1522	SOIL	NONE	5-Encores											X	X	X											
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X														
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-326-SA5B-SB-14.0-15.0	2.10.2011	0859	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-14.5	2.10.2011	0854	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-18.5-19.5	2.10.2011	0909	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-19.0	2.10.2011	0903	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-9.0-10.0	2.10.2011	0848	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-9.5	2.10.2011	0845	SOIL	NONE	5-Encores											X	X	X											
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0948	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0948	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-16 oz jars	X	X			X	X	X		X	X														
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-6-inch sleeves			X	X																				
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-6-inch sleeve			X	X																				
TB-021011	2.10.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (*Signature*)	Date/Time: 02/10/2011 / 17:00	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s): 8695 1432 2957, ...2968, ...2979, ...2980	No. of coolers = 4

acct# 13013 Grp# 1232736 sample# 620-3541-61

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Jennifer Hartman, Guillermo Ortiz

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: *VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: *pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetraethyl EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-6-inch sleeve			X	X																				
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	6-1L Amber jars			X	X	X				X	X														RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	1-500 ml poly		X				X	X																	RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	HN03	1-500 ml poly	X																							RINSATE FOR SS TOOL
SL-315-SA5B-SB-3.0-4.0	2.10.2011	1055	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-315-SA5B-SB-3.5	2.10.2011	1051	SOIL	NONE	5-Encores											X	X	X											
SL-317-SA5B-SB-3.0-4.0	2.10.2011	1206	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-317-SA5B-SB-3.5	2.10.2011	1202	SOIL	NONE	5-Encores											X	X	X											
SL-319-SA5B-SB-4.0-5.0	2.10.2011	1527	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-319-SA5B-SB-4.5	2.10.2011	1522	SOIL	NONE	5-Encores											X	X	X											
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X														
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-326-SA5B-SB-14.0-15.0	2.10.2011	0859	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-14.5	2.10.2011	0854	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-18.5-19.5	2.10.2011	0909	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-19.0	2.10.2011	0903	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-9.0-10.0	2.10.2011	0848	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-9.5	2.10.2011	0845	SOIL	NONE	5-Encores											X	X	X											
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0948	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0948	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-16 oz jars	X	X			X	X	X		X	X														
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-6-inch sleeves			X	X																				
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-6-inch sleeve			X	X																				
TB-021011	2.10.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
[signature]	02/10/2011 / 17:00	Harry ML- LLJ 2/11/11 940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	No. of coolers = 4
		8695 1432 2957, ...2968, ...2979, ...2980	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/11/2011
Group Number: 1232737
SDG: DX048
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP-024-QC-021011 Soil	6203562
EB31-SA5B-021011 Water	6203563
SL-315-SA5B-SB-3.0-4.0 Soil	6203564
SL-319-SA5B-SB-4.0-5.0 Soil	6203566
SL-321-SA5B-SS-0.0-0.5 Soil	6203567

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-024-QC-021011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203562
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4816 SDG#: DX048-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-024-QC-021011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203562
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4816 SDG#: DX048-16FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.170	JB	0.0151	1.07	1
11031	12378-PeCDD	40321-76-4	2.04	JB	0.0763	5.36	1
11031	123478-HxCDD	39227-28-6	4.11	J	0.0909	5.36	1
11031	123678-HxCDD	57653-85-7	8.91	B	0.0922	5.36	1
11031	123789-HxCDD	19408-74-3	8.24	B	0.0807	5.36	1
11031	1234678-HpCDD	35822-46-9	321	B	0.143	5.36	1
11031	OCDD	3268-87-9	3,810	B	0.183	10.7	1
11031	2378-TCDF	51207-31-9	0.142	JQ	0.0383	1.07	1
11031	12378-PeCDF	57117-41-6	0.397	JB	0.0352	5.36	1
11031	23478-PeCDF	57117-31-4	1.41	JB	0.0334	5.36	1
11031	123478-HxCDF	70648-26-9	3.86	JB	0.109	5.36	1
11031	123678-HxCDF	57117-44-9	3.05	JB	0.0869	5.36	1
11031	123789-HxCDF	72918-21-9	1.30	JB	0.0723	5.36	1
11031	234678-HxCDF	60851-34-5	2.69	JB	0.0660	5.36	1
11031	1234678-HpCDF	67562-39-4	52.9	B	0.0782	5.36	1
11031	1234789-HpCDF	55673-89-7	4.71	JB	0.0780	5.36	1
11031	OCDF	39001-02-0	99.4	B	0.0457	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP-024-QC-021011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203562
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4816 SDG#: DX048-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP-024-QC-021011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-024-QC-021011

LLI Sample # SW 6203562
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4816 SDG#: DX048-16FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 07:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: **EB31-SA5B-021011 Water**
SSFL Area IV Collocated Soil Sampling
EB31-SA5B-021011

LLI Sample # WW 6203563
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:15

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4817 SDG#: DX048-17EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	5.83	B	0.146	2.05	1
10915	12378-PeCDD	40321-76-4	3.53	JB	0.252	10.3	1
10915	123478-HxCDD	39227-28-6	1.25	JB	0.836	10.3	1
10915	123678-HxCDD	57653-85-7	3.93	JB	0.716	10.3	1
10915	123789-HxCDD	19408-74-3	2.52	JBQ	0.217	10.3	1
10915	1234678-HpCDD	35822-46-9	2.24	JB	0.416	10.3	1
10915	OCDD	3268-87-9	3.15	JB	0.455	20.5	1
10915	2378-TCDF	51207-31-9	0.956	JB	0.0992	2.05	1
10915	12378-PeCDF	57117-41-6	1.28	JB	0.129	10.3	1
10915	23478-PeCDF	57117-31-4	3.35	JB	0.234	10.3	1
10915	123478-HxCDF	70648-26-9	2.61	JB	1.46	10.3	1
10915	123678-HxCDF	57117-44-9	3.73	JB	1.07	10.3	1
10915	123789-HxCDF	72918-21-9	2.72	JB	0.171	10.3	1
10915	234678-HxCDF	60851-34-5	1.83	JB	0.294	10.3	1
10915	1234678-HpCDF	67562-39-4	3.44	JB	0.852	10.3	1
10915	1234789-HpCDF	55673-89-7	1.99	JB	0.286	10.3	1
10915	OCDF	39001-02-0	1.21	JB	0.694	20.5	1

The recoveries of several labeled compounds were outside QC limits in this equipment blank sample and the associated OPR. Sufficient sample volume was not available to perform a re-extraction.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	44	25 - 164
13C12-12378-PeCDD	21	25 - 181
13C12-123478-HxCDD	9	32 - 141
13C12-123678-HxCDD	11	28 - 130
13C12-123789-HxCDD	35	28 - 130
13C12-1234678-HpCDD	14	23 - 140
13C12-OCDD	12	17 - 157
13C12-2378-TCDF	40	24 - 169
13C12-12378-PeCDF	27	24 - 185
13C12-23478-PeCDF	14	21 - 178
13C12-123478-HxCDF	4	26 - 152
13C12-123678-HxCDF	5	26 - 123
13C12-234678-HxCDF	18	28 - 136
13C12-123789-HxCDF	33	29 - 147
13C12-1234678-HpCDF	4	28 - 143
13C12-1234789-HpCDF	14	26 - 138
13C12-OCDF	8	17 - 157
13C12-1278-TCDD (CRS)	38	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB31-SA5B-021011 Water**
SSFL Area IV Collocated Soil Sampling
EB31-SA5B-021011

LLI Sample # WW 6203563
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:15

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4817 SDG#: DX048-17EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11046002	02/17/2011 22:24	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11046002	02/16/2011 10:00	Deborah M Zimmerman	1

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Analysis Report

Sample Description: **SL-315-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203564
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4818 SDG#: DX048-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-315-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203564
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4818 SDG#: DX048-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0282	JB	0.00991	1.08	1
11031	12378-PeCDD	40321-76-4	0.105	JB	0.0142	5.39	1
11031	123478-HxCDD	39227-28-6	0.141	J	0.0547	5.39	1
11031	123678-HxCDD	57653-85-7	1.81	JB	0.0550	5.39	1
11031	123789-HxCDD	19408-74-3	1.22	JB	0.0548	5.39	1
11031	1234678-HpCDD	35822-46-9	68.5	B	0.0716	5.39	1
11031	OCDD	3268-87-9	777	B	0.0847	10.8	1
11031	2378-TCDF	51207-31-9	0.0325	J	0.0112	1.08	1
11031	12378-PeCDF	57117-41-6	0.123	JB	0.00700	5.39	1
11031	23478-PeCDF	57117-31-4	0.182	JBQ	0.00722	5.39	1
11031	123478-HxCDF	70648-26-9	0.424	JB	0.0332	5.39	1
11031	123678-HxCDF	57117-44-9	0.637	JB	0.0270	5.39	1
11031	123789-HxCDF	72918-21-9	0.254	JB	0.0336	5.39	1
11031	234678-HxCDF	60851-34-5	0.325	JB	0.0263	5.39	1
11031	1234678-HpCDF	67562-39-4	8.22	B	0.0295	5.39	1
11031	1234789-HpCDF	55673-89-7	0.778	JB	0.0498	5.39	1
11031	OCDF	39001-02-0	27.5	B	0.0356	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	104	24 - 169
13C12-12378-PeCDF	124	24 - 185
13C12-23478-PeCDF	111	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	100	26 - 123
13C12-234678-HxCDF	101	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	109	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	106	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-315-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203564
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4818 SDG#: DX048-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-315-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-315-SA5B-SB-3.0-4.0

LLI Sample # SW 6203564
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:55

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4818 SDG#: DX048-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 08:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-319-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203566
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4820 SDG#: DX048-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-319-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203566
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4820 SDG#: DX048-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.00986 U	0.00986	1.07	1
11031	12378-PeCDD	40321-76-4	0.0761 JBQ	0.0162	5.36	1
11031	123478-HxCDD	39227-28-6	0.112 J	0.0655	5.36	1
11031	123678-HxCDD	57653-85-7	1.97 JB	0.0602	5.36	1
11031	123789-HxCDD	19408-74-3	1.27 JB	0.0508	5.36	1
11031	1234678-HpCDD	35822-46-9	83.5 B	0.0861	5.36	1
11031	OCDD	3268-87-9	901 B	0.0672	10.7	1
11031	2378-TCDF	51207-31-9	0.0273 JQ	0.0108	1.07	1
11031	12378-PeCDF	57117-41-6	0.0750 JB	0.00697	5.36	1
11031	23478-PeCDF	57117-31-4	0.125 JB	0.00793	5.36	1
11031	123478-HxCDF	70648-26-9	0.437 JB	0.0610	5.36	1
11031	123678-HxCDF	57117-44-9	0.918 JB	0.0401	5.36	1
11031	123789-HxCDF	72918-21-9	0.268 JB	0.0335	5.36	1
11031	234678-HxCDF	60851-34-5	0.335 JB	0.0256	5.36	1
11031	1234678-HpCDF	67562-39-4	9.42 B	0.0529	5.36	1
11031	1234789-HpCDF	55673-89-7	0.865 JB	0.0621	5.36	1
11031	OCDF	39001-02-0	30.4 B	0.0430	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	95	24 - 169
13C12-12378-PeCDF	112	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-319-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203566
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4820 SDG#: DX048-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-319-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-319-SA5B-SB-4.0-5.0

LLI Sample # SW 6203566
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 15:27

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4820 SDG#: DX048-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 09:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-321-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203567
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4821 SDG#: DX048-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-321-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203567
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4821 SDG#: DX048-21*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.215	JB	0.0175	1.06	1
11031	12378-PeCDD	40321-76-4	2.44	JB	0.0810	5.28	1
11031	123478-HxCDD	39227-28-6	4.21	J	0.0766	5.28	1
11031	123678-HxCDD	57653-85-7	7.58	B	0.0755	5.28	1
11031	123789-HxCDD	19408-74-3	9.21	B	0.0705	5.28	1
11031	1234678-HpCDD	35822-46-9	188	B	0.123	5.28	1
11031	OCDD	3268-87-9	1,940	B	0.161	10.6	1
11031	2378-TCDF	51207-31-9	0.233	J	0.0315	1.06	1
11031	12378-PeCDF	57117-41-6	0.536	JB	0.0268	5.28	1
11031	23478-PeCDF	57117-31-4	1.15	JB	0.0266	5.28	1
11031	123478-HxCDF	70648-26-9	1.94	JB	0.0922	5.28	1
11031	123678-HxCDF	57117-44-9	2.31	JB	0.0703	5.28	1
11031	123789-HxCDF	72918-21-9	0.715	JB	0.0660	5.28	1
11031	234678-HxCDF	60851-34-5	3.69	JB	0.0533	5.28	1
11031	1234678-HpCDF	67562-39-4	35.2	B	0.0897	5.28	1
11031	1234789-HpCDF	55673-89-7	2.33	JB	0.0867	5.28	1
11031	OCDF	39001-02-0	73.4	B	0.0654	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	54	23 - 140
13C12-OCDD	38	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	47	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-321-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203567
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4821 SDG#: DX048-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-321-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SS-0.0-0.5

LLI Sample # SW 6203567
LLI Group # 1232737
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:06

Submitted: 02/11/2011 09:40
Reported: 03/18/2011 12:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4821 SDG#: DX048-21*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049002	02/25/2011 15:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11049002	02/19/2011 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232737
Reported: 03/18/11 at 12:15 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11052162401B	Sample number(s): 6203562,6203567								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11054162401B	Sample number(s): 6203564,6203566								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11046002	Sample number(s): 6203563								
2378-TCDD	0.136 J	0.0816	2.00	pg/l	87		67-158		
12378-PeCDD	0.275 J	0.0885	10.0	pg/l	89		70-142		
123478-HxCDD	0.240 J	0.111	10.0	pg/l	89		70-164		
123678-HxCDD	0.155 J	0.0998	10.0	pg/l	88		76-134		
123789-HxCDD	0.237 J	0.0932	10.0	pg/l	86		64-162		
1234678-HpCDD	0.911 J	0.120	10.0	pg/l	90		70-140		
OCDD	2.00 J	0.188	20.0	pg/l	95		78-144		
2378-TCDF	0.109 J	0.0665	2.00	pg/l	91		75-158		
12378-PeCDF	0.324 J	0.0615	10.0	pg/l	88		80-134		
23478-PeCDF	0.495 J	0.0623	10.0	pg/l	88		68-160		
123478-HxCDF	0.311 J	0.133	10.0	pg/l	92		72-134		
123678-HxCDF	0.163 J	0.0935	10.0	pg/l	92		84-130		
123789-HxCDF	0.322 J	0.0643	10.0	pg/l	90		78-130		
234678-HxCDF	0.214 J	0.0593	10.0	pg/l	92		70-156		
1234678-HpCDF	0.206 J	0.102	10.0	pg/l	93		82-122		
1234789-HpCDF	0.478 J	0.0713	10.0	pg/l	92		78-138		
OCDF	0.292 J	0.149	20.0	pg/l	97		63-170		
Batch number: 11049002	Sample number(s): 6203562,6203564,6203566-6203567								
2378-TCDD	0.0139 J	0.0121	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0159 J	0.0123	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0123 U	0.0123	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0154 J	0.0116	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0248 J	0.00980	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.135 J	0.0131	5.00	ng/kg	95		70-140		
OCDD	0.324 J	0.0199	10.0	ng/kg	93		78-144		
2378-TCDF	0.0103 U	0.0103	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0168 J	0.00620	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0476 J	0.00670	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0290 J	0.0168	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0270 J	0.0111	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0398 J	0.00850	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0418 J	0.00710	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.144 J	0.0105	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0364 J	0.00950	5.00	ng/kg	94		78-138		
OCDF	0.153 J	0.0183	10.0	ng/kg	95		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232737
Reported: 03/18/11 at 12:15 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11052162401B	Sample number(s): 6203562,6203567					BKG: P203555			
28a Moisture Content by 160.3						5.8	5.8	1	20
Batch number: 11054162401B	Sample number(s): 6203564,6203566					BKG: P203548			
28a Moisture Content by 160.3						14.6	13.4	9	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11046002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6203563	44	14*	4*	5*	18*	33
Blank	63	52	26	35	57	57
OPR	71	40	11*	14*	55	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6203563	4*	14*	8*	38	21*	9*
Blank	30	50	43	85	62	49
OPR	13*	48	26	64	60	27*
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6203563	11*	35	14*	12*	40	27
Blank	56	60	55	48	59	55
OPR	34	71	46	42	62	59
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11049002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6203562	79	92	52	63	84	82
6203564	88	111	81	100	101	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232737
Reported: 03/18/11 at 12:15 PM

Surrogate Quality Control

6203566	84	92	40	59	92	79
6203567	76	81	53	66	89	79
Blank	82	96	38	54	87	77
OPR	73	86	54	69	76	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6203562	59	70	56	88	84	71
6203564	109	74	58	106	101	90
6203566	63	61	40	90	87	64
6203567	47	55	38	93	71	71
Blank	52	67	51	101	90	61
OPR	68	54	41	94	83	68
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6203562	72	76	70	61	89	93
6203564	92	90	86	75	104	124
6203566	74	84	75	64	95	112
6203567	74	74	54	38	92	84
Blank	68	79	71	63	86	108
OPR	71	74	66	57	79	97
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

A#13013 Grp.#1232738 (2) Nov 2011 Sample # G2035G2-67

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Pyrotechnics Confirmation by EPA 6850 (TAL)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes: Amended COC
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-6-inch sleeve			X	X																				
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	6-1L Amber jars			X	X	X				X	X														RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	1-500 ml poly		X				X	X																	RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	HN03	1-500 ml poly	X																							RINSATE FOR SS TOOL
~~SL-315-SA5B-SB-3.0-4.0~~	~~2.10.2011~~	~~1055~~	~~SOIL~~	~~NONE~~	~~4-16 oz. jars~~	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
~~SL-315-SA5B-SB-3.5~~	~~2.10.2011~~	~~1051~~	~~SOIL~~	~~NONE~~	~~5-Encores~~											X	X	X										
~~SL-317-SA5B-SB-3.0-4.0~~	~~2.10.2011~~	~~1206~~	~~SOIL~~	~~NONE~~	~~4-16 oz. jars~~	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
~~SL-317-SA5B-SB-3.5~~	~~2.10.2011~~	~~1202~~	~~SOIL~~	~~NONE~~	~~5-Encores~~											X	X	X										
~~SL-319-SA5B-SB-4.0-5.0~~	~~2.10.2011~~	~~1527~~	~~SOIL~~	~~NONE~~	~~4-16 oz. jars~~	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
~~SL-319-SA5B-SB-4.5~~	~~2.10.2011~~	~~1522~~	~~SOIL~~	~~NONE~~	~~5-Encores~~											X	X	X										
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X														
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-6-inch sleeve			X	X																				
~~SL-322-SA5B-SS-0.0-0.5~~	~~2.10.2011~~	~~0925~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	X	X			X	X	X		X	X														
~~SL-322-SA5B-SS-0.0-0.5~~	~~2.10.2011~~	~~0925~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			X	X																				
SL-326-SA5B-SB-14.0-15.0	2.10.2011	0859	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-326-SA5B-SB-14.5	2.10.2011	0854	SOIL	NONE	5-Encores											X	X	X										
SL-326-SA5B-SB-18.5-19.5	2.10.2011	0909	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-326-SA5B-SB-19.0	2.10.2011	0903	SOIL	NONE	5-Encores											X	X	X										
SL-326-SA5B-SB-9.0-10.0	2.10.2011	0848	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-326-SA5B-SB-9.5	2.10.2011	0845	SOIL	NONE	5-Encores											X	X	X										
~~SL-329-SA5B-SS-0.0-0.5~~	~~2.10.2011~~	~~0948~~	~~SOIL~~	~~NONE~~	~~2-16 oz. jars~~	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X	
~~SL-329-SA5B-SS-0.0-0.5~~	~~2.10.2011~~	~~0948~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			X	X																				
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X	
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	1-6-inch sleeve			X	X																				
~~SL-331-SA5B-SS-0.0-0.5~~	~~2.10.2011~~	~~1035~~	~~SOIL~~	~~NONE~~	~~2-16 oz. jars~~	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X	
~~SL-331-SA5B-SS-0.0-0.5~~	~~2.10.2011~~	~~1035~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			X	X																				
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-6-inch sleeve			X	X																				
~~SL-333-SA5B-SS-0.0-0.5MS~~	~~2.10.2011~~	~~1305~~	~~SOIL~~	~~NONE~~	~~3-16 oz jars~~	X	X			X	X	X		X	X														
~~SL-333-SA5B-SS-0.0-0.5MS~~	~~2.10.2011~~	~~1305~~	~~SOIL~~	~~NONE~~	~~3-6-inch sleeves~~			X	X																				
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-6-inch sleeve			X	X																				
~~SL-335-SA5B-SS-0.0-0.5~~	~~2.10.2011~~	~~1330~~	~~SOIL~~	~~NONE~~	~~1-16 oz. jar~~	X	X			X	X	X		X	X														
~~SL-335-SA5B-SS-0.0-0.5~~	~~2.10.2011~~	~~1330~~	~~SOIL~~	~~NONE~~	~~1-6-inch sleeve~~			X	X																				
TB-021011	2.10.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	02/10/2011 / 17:00		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 2957, ...2968, ...2979, ...2980	No. of coolers = 4

acct# 13013 Ap# 1232737 Sample# 6203562 67

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by ERA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hartman, Cindy Hurlbert

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (Aqueous soil only)	Herbicides EPA 8151 (Aqueous soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	*tpH EPA 9045C	*TPH-EPH EPA 8015B Mod.	*Nitrates EPA 300.0	*Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenoids EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-6-inch sleeve			X	X																				
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	6-1L Amber jars			X	X	X				X	X														RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	1-500 ml poly		X				X	X																	RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	HN03	1-500 ml poly	X																							RINSATE FOR SS TOOL
SL-315-SA5B-SB-3.0-4.0	2.10.2011	1056	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-315-SA5B-SB-3.5	2.10.2011	1051	SOIL	NONE	5-Encores											X	X	X											
SL-317-SA5B-SB-3.0-4.0	2.10.2011	1206	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-317-SA5B-SB-3.5	2.10.2011	1202	SOIL	NONE	5-Encores											X	X	X											
SL-319-SA5B-SB-4.0-5.0	2.10.2011	1527	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-319-SA5B-SB-4.5	2.10.2011	1522	SOIL	NONE	5-Encores											X	X	X											
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X														
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-326-SA5B-SB-14.0-15.0	2.10.2011	0859	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-14.5	2.10.2011	0854	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-18.5-19.5	2.10.2011	0909	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-19.0	2.10.2011	0903	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-9.0-10.0	2.10.2011	0848	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-9.5	2.10.2011	0845	SOIL	NONE	5-Encores											X	X	X											
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0948	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0948	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-16 oz jars	X	X			X	X	X		X	X														
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-6-inch sleeves			X	X																				
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-6-inch sleeve			X	X																				
TB-021011	2.10.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/10/2011 / 17:00

Received by: (Signature) — Date/Time

Received for Laboratory by: (Signature). Harry M. LLS 2/11/11 940

Airbill No.(s): 8695 1432 2957, ...2968, ...2979, ...2980

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 4

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/11/2011
Group Number: 1232754
SDG: DX049
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-322-SA5B-SS-0.0-0.5 Soil	6203639
SL-326-SA5B-SB-14.0-15.0 Soil	6203640
SL-326-SA5B-SB-18.5-19.5 Soil	6203641
SL-326-SA5B-SB-9.0-10.0 Soil	6203642
SL-329-SA5B-SS-0.0-0.5 Soil	6203643
SL-330-SA5B-SS-0.0-0.5 Soil	6203644
SL-331-SA5B-SS-0.0-0.5 Soil	6203645
SL-332-SA5B-SS-0.0-0.5 Soil	6203646
SL-333-SA5B-SS-0.0-0.5 Soil	6203647
SL-333-SA5B-SS-0.0-0.5MS Soil	6203648
SL-333-SA5B-SS-0.0-0.5MSD Soil	6203649

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-322-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203639
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX049-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-322-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203639
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX049-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.117	JB	0.0126	1.06	1
11031	12378-PeCDD	40321-76-4	1.22	JB	0.0505	5.28	1
11031	123478-HxCDD	39227-28-6	2.49	J	0.0941	5.28	1
11031	123678-HxCDD	57653-85-7	5.43	B	0.0868	5.28	1
11031	123789-HxCDD	19408-74-3	4.91	JB	0.0779	5.28	1
11031	1234678-HpCDD	35822-46-9	189	B	0.152	5.28	1
11031	OCDD	3268-87-9	2,200	B	0.109	10.6	1
11031	2378-TCDF	51207-31-9	0.122	JBQ	0.0201	1.06	1
11031	12378-PeCDF	57117-41-6	0.248	JB	0.0197	5.28	1
11031	23478-PeCDF	57117-31-4	0.640	JB	0.0204	5.28	1
11031	123478-HxCDF	70648-26-9	1.45	JB	0.104	5.28	1
11031	123678-HxCDF	57117-44-9	1.93	JB	0.0769	5.28	1
11031	123789-HxCDF	72918-21-9	0.508	JB	0.0525	5.28	1
11031	234678-HxCDF	60851-34-5	1.96	JB	0.0526	5.28	1
11031	1234678-HpCDF	67562-39-4	28.5	B	0.0886	5.28	1
11031	1234789-HpCDF	55673-89-7	2.16	JB	0.0653	5.28	1
11031	OCDF	39001-02-0	56.3	B	0.0532	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	46	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-322-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203639
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX049-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-322-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SS-0.0-0.5

LLI Sample # SW 6203639
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:25

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX049-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/22/2011 22:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203640
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX049-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-326-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203640
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX049-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0278 JB	0.00913	1.17	1
11031	12378-PeCDD	40321-76-4	0.0382 JBQ	0.0116	5.85	1
11031	123478-HxCDD	39227-28-6	0.0386 JQ	0.0233	5.85	1
11031	123678-HxCDD	57653-85-7	0.191 JB	0.0231	5.85	1
11031	123789-HxCDD	19408-74-3	0.198 JB	0.0220	5.85	1
11031	1234678-HpCDD	35822-46-9	4.37 JB	0.0300	5.85	1
11031	OCDD	3268-87-9	43.8 B	0.0259	11.7	1
11031	2378-TCDF	51207-31-9	0.0187 JBQ	0.0141	1.17	1
11031	12378-PeCDF	57117-41-6	0.0355 JBQ	0.00902	5.85	1
11031	23478-PeCDF	57117-31-4	0.0844 JB	0.0101	5.85	1
11031	123478-HxCDF	70648-26-9	0.0567 JBQ	0.0181	5.85	1
11031	123678-HxCDF	57117-44-9	0.0393 JBQ	0.0119	5.85	1
11031	123789-HxCDF	72918-21-9	0.104 JB	0.0150	5.85	1
11031	234678-HxCDF	60851-34-5	0.0331 JBQ	0.0114	5.85	1
11031	1234678-HpCDF	67562-39-4	0.450 JB	0.0193	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0540 JB	0.0285	5.85	1
11031	OCDF	39001-02-0	1.07 JB	0.0282	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203640
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX049-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-14.0-15.0

LLI Sample # SW 6203640
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:59

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX049-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 01:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-326-SA5B-SB-18.5-19.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203641
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX049-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-326-SA5B-SB-18.5-19.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203641
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX049-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0305 JBQ	0.0112	1.11	1
11031	12378-PeCDD	40321-76-4	0.0718 JBQ	0.0181	5.55	1
11031	123478-HxCDD	39227-28-6	0.106 J	0.0468	5.55	1
11031	123678-HxCDD	57653-85-7	0.394 JB	0.0468	5.55	1
11031	123789-HxCDD	19408-74-3	0.347 JB	0.0446	5.55	1
11031	1234678-HpCDD	35822-46-9	20.3 B	0.0701	5.55	1
11031	OCDD	3268-87-9	275 B	0.0452	11.1	1
11031	2378-TCDF	51207-31-9	0.397 JBQ	0.0370	1.11	1
11031	12378-PeCDF	57117-41-6	0.142 JB	0.0186	5.55	1
11031	23478-PeCDF	57117-31-4	0.156 JBQ	0.0198	5.55	1
11031	123478-HxCDF	70648-26-9	0.134 JB	0.0377	5.55	1
11031	123678-HxCDF	57117-44-9	0.0978 JB	0.0277	5.55	1
11031	123789-HxCDF	72918-21-9	0.0992 JBQ	0.0295	5.55	1
11031	234678-HxCDF	60851-34-5	0.103 JB	0.0246	5.55	1
11031	1234678-HpCDF	67562-39-4	2.23 JB	0.0293	5.55	1
11031	1234789-HpCDF	55673-89-7	0.243 JB	0.0354	5.55	1
11031	OCDF	39001-02-0	8.81 JB	0.0316	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-18.5-19.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203641
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX049-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-18.5-19.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-18.5-19.5

LLI Sample # SW 6203641
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:09

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX049-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 02:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203642
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4915 SDG#: DX049-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-326-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203642
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4915 SDG#: DX049-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0198 JBQ	0.0106	1.12	1
11031	12378-PeCDD	40321-76-4	0.0470 JBQ	0.0154	5.59	1
11031	123478-HxCDD	39227-28-6	0.150 J	0.0536	5.59	1
11031	123678-HxCDD	57653-85-7	1.11 JB	0.0547	5.59	1
11031	123789-HxCDD	19408-74-3	0.582 JB	0.0529	5.59	1
11031	1234678-HpCDD	35822-46-9	62.1 B	0.0821	5.59	1
11031	OCDD	3268-87-9	374 B	0.0419	11.2	1
11031	2378-TCDF	51207-31-9	0.0774 JB	0.0218	1.12	1
11031	12378-PeCDF	57117-41-6	0.0494 JBQ	0.0120	5.59	1
11031	23478-PeCDF	57117-31-4	0.187 JB	0.0130	5.59	1
11031	123478-HxCDF	70648-26-9	0.197 JB	0.0301	5.59	1
11031	123678-HxCDF	57117-44-9	0.121 JB	0.0235	5.59	1
11031	123789-HxCDF	72918-21-9	0.158 JBQ	0.0268	5.59	1
11031	234678-HxCDF	60851-34-5	0.103 JBQ	0.0224	5.59	1
11031	1234678-HpCDF	67562-39-4	1.79 JB	0.0238	5.59	1
11031	1234789-HpCDF	55673-89-7	0.157 JB	0.0358	5.59	1
11031	OCDF	39001-02-0	7.10 JB	0.0247	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203642
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4915 SDG#: DX049-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-326-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-326-SA5B-SB-9.0-10.0

LLI Sample # SW 6203642
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 08:48

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4915 SDG#: DX049-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 03:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203643
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4916 SDG#: DX049-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-329-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203643
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4916 SDG#: DX049-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0376 JBQ	0.00892	1.06	1
11031	12378-PeCDD	40321-76-4	0.202 JB	0.0204	5.31	1
11031	123478-HxCDD	39227-28-6	0.420 J	0.0701	5.31	1
11031	123678-HxCDD	57653-85-7	1.39 JB	0.0637	5.31	1
11031	123789-HxCDD	19408-74-3	0.899 JB	0.0565	5.31	1
11031	1234678-HpCDD	35822-46-9	59.0 B	0.0901	5.31	1
11031	OCDD	3268-87-9	818 B	0.0677	10.6	1
11031	2378-TCDF	51207-31-9	0.0180 JBQ	0.00998	1.06	1
11031	12378-PeCDF	57117-41-6	0.0633 JBQ	0.0114	5.31	1
11031	23478-PeCDF	57117-31-4	0.242 JB	0.0109	5.31	1
11031	123478-HxCDF	70648-26-9	0.773 JB	0.0676	5.31	1
11031	123678-HxCDF	57117-44-9	0.475 JB	0.0495	5.31	1
11031	123789-HxCDF	72918-21-9	0.278 JBQ	0.0343	5.31	1
11031	234678-HxCDF	60851-34-5	0.456 JB	0.0315	5.31	1
11031	1234678-HpCDF	67562-39-4	8.77 B	0.0504	5.31	1
11031	1234789-HpCDF	55673-89-7	0.939 JB	0.0361	5.31	1
11031	OCDF	39001-02-0	18.4 B	0.0276	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-329-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203643
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4916 SDG#: DX049-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SS-0.0-0.5

LLI Sample # SW 6203643
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 09:48

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4916 SDG#: DX049-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 04:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-330-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203644
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4917 SDG#: DX049-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-330-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203644
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4917 SDG#: DX049-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.130	JB	0.0142	1.04	1
11031	12378-PeCDD	40321-76-4	1.37	JB	0.0613	5.21	1
11031	123478-HxCDD	39227-28-6	2.82	J	0.120	5.21	1
11031	123678-HxCDD	57653-85-7	7.53	B	0.111	5.21	1
11031	123789-HxCDD	19408-74-3	5.22	B	0.102	5.21	1
11031	1234678-HpCDD	35822-46-9	272	B	0.206	5.21	1
11031	OCDD	3268-87-9	3,890	B	0.158	10.4	1
11031	2378-TCDF	51207-31-9	0.123	JB	0.0257	1.04	1
11031	12378-PeCDF	57117-41-6	0.402	JB	0.0197	5.21	1
11031	23478-PeCDF	57117-31-4	0.674	JB	0.0198	5.21	1
11031	123478-HxCDF	70648-26-9	2.81	JB	0.121	5.21	1
11031	123678-HxCDF	57117-44-9	2.63	JB	0.0890	5.21	1
11031	123789-HxCDF	72918-21-9	0.968	JB	0.0610	5.21	1
11031	234678-HxCDF	60851-34-5	2.41	JB	0.0578	5.21	1
11031	1234678-HpCDF	67562-39-4	40.0	B	0.102	5.21	1
11031	1234789-HpCDF	55673-89-7	3.57	JB	0.0786	5.21	1
11031	OCDF	39001-02-0	83.1	B	0.0456	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	103	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-330-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203644
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4917 SDG#: DX049-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-330-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SS-0.0-0.5

LLI Sample # SW 6203644
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:08

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4917 SDG#: DX049-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 05:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-331-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203645
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4918 SDG#: DX049-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-331-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203645
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4918 SDG#: DX049-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0457	JB	0.0102	1.05	1
11031	12378-PeCDD	40321-76-4	0.280	JB	0.0220	5.26	1
11031	123478-HxCDD	39227-28-6	0.386	J	0.0720	5.26	1
11031	123678-HxCDD	57653-85-7	0.919	JB	0.0652	5.26	1
11031	123789-HxCDD	19408-74-3	0.726	JB	0.0566	5.26	1
11031	1234678-HpCDD	35822-46-9	27.8	B	0.0595	5.26	1
11031	OCDD	3268-87-9	318	B	0.0417	10.5	1
11031	2378-TCDF	51207-31-9	0.213	JB	0.0197	1.05	1
11031	12378-PeCDF	57117-41-6	0.697	JB	0.0200	5.26	1
11031	23478-PeCDF	57117-31-4	0.967	JB	0.0207	5.26	1
11031	123478-HxCDF	70648-26-9	2.09	JB	0.0900	5.26	1
11031	123678-HxCDF	57117-44-9	1.62	JB	0.0630	5.26	1
11031	123789-HxCDF	72918-21-9	0.609	JB	0.0452	5.26	1
11031	234678-HxCDF	60851-34-5	1.11	JB	0.0423	5.26	1
11031	1234678-HpCDF	67562-39-4	6.91	B	0.0555	5.26	1
11031	1234789-HpCDF	55673-89-7	1.20	JB	0.0446	5.26	1
11031	OCDF	39001-02-0	8.53	JB	0.0280	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-331-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203645
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4918 SDG#: DX049-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-331-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SS-0.0-0.5

LLI Sample # SW 6203645
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 10:35

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4918 SDG#: DX049-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 06:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11054162401B	02/23/2011 19:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-332-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203646
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4919 SDG#: DX049-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-332-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203646
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4919 SDG#: DX049-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0103	JBQ	0.00800	1.08	1
11031	12378-PeCDD	40321-76-4	0.0716	JBQ	0.0128	5.41	1
11031	123478-HxCDD	39227-28-6	0.0989	J	0.0467	5.41	1
11031	123678-HxCDD	57653-85-7	0.568	JB	0.0481	5.41	1
11031	123789-HxCDD	19408-74-3	0.361	JB	0.0454	5.41	1
11031	1234678-HpCDD	35822-46-9	22.3	B	0.0699	5.41	1
11031	OCDD	3268-87-9	284	B	0.0370	10.8	1
11031	2378-TCDF	51207-31-9	0.0556	JB	0.0254	1.08	1
11031	12378-PeCDF	57117-41-6	0.106	JBQ	0.0238	5.41	1
11031	23478-PeCDF	57117-31-4	0.627	JB	0.0235	5.41	1
11031	123478-HxCDF	70648-26-9	0.544	JB	0.0479	5.41	1
11031	123678-HxCDF	57117-44-9	0.279	JB	0.0368	5.41	1
11031	123789-HxCDF	72918-21-9	0.143	JB	0.0358	5.41	1
11031	234678-HxCDF	60851-34-5	0.271	JBQ	0.0311	5.41	1
11031	1234678-HpCDF	67562-39-4	2.80	JB	0.0289	5.41	1
11031	1234789-HpCDF	55673-89-7	0.322	JB	0.0355	5.41	1
11031	OCDF	39001-02-0	5.93	JB	0.0214	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-332-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203646
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4919 SDG#: DX049-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-332-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SS-0.0-0.5

LLI Sample # SW 6203646
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:23

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4919 SDG#: DX049-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 07:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203647
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-333-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203647
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.113	JBQ	0.0166	1.06	1
11031	12378-PeCDD	40321-76-4	1.76	JB	0.0798	5.31	1
11031	123478-HxCDD	39227-28-6	4.08	J	0.173	5.31	1
11031	123678-HxCDD	57653-85-7	8.49	B	0.153	5.31	1
11031	123789-HxCDD	19408-74-3	7.84	B	0.137	5.31	1
11031	1234678-HpCDD	35822-46-9	324	B	0.235	5.31	1
11031	OCDD	3268-87-9	3,900	B	0.281	10.6	1
11031	2378-TCDF	51207-31-9	0.106	JB	0.0401	1.06	1
11031	12378-PeCDF	57117-41-6	0.311	JB	0.0412	5.31	1
11031	23478-PeCDF	57117-31-4	1.02	JB	0.0383	5.31	1
11031	123478-HxCDF	70648-26-9	3.25	JB	0.187	5.31	1
11031	123678-HxCDF	57117-44-9	3.14	JB	0.135	5.31	1
11031	123789-HxCDF	72918-21-9	0.924	JB	0.0893	5.31	1
11031	234678-HxCDF	60851-34-5	2.48	JB	0.0874	5.31	1
11031	1234678-HpCDF	67562-39-4	54.1	B	0.143	5.31	1
11031	1234789-HpCDF	55673-89-7	4.49	JB	0.106	5.31	1
11031	OCDF	39001-02-0	98.5	B	0.0680	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203647
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203647
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 08:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203648
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-333-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203648
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.4	B	0.0221	1.06	1
11031	12378-PeCDD	40321-76-4	108	B	0.0700	5.31	1
11031	123478-HxCDD	39227-28-6	109		0.173	5.31	1
11031	123678-HxCDD	57653-85-7	111	B	0.168	5.31	1
11031	123789-HxCDD	19408-74-3	111	B	0.158	5.31	1
11031	1234678-HpCDD	35822-46-9	370	B	0.197	5.31	1
11031	OCDD	3268-87-9	3,680	B	0.235	10.6	1
11031	2378-TCDF	51207-31-9	21.9	B	0.0400	1.06	1
11031	12378-PeCDF	57117-41-6	103	B	0.0408	5.31	1
11031	23478-PeCDF	57117-31-4	104	B	0.0385	5.31	1
11031	123478-HxCDF	70648-26-9	106	B	0.174	5.31	1
11031	123678-HxCDF	57117-44-9	106	B	0.127	5.31	1
11031	123789-HxCDF	72918-21-9	103	B	0.100	5.31	1
11031	234678-HxCDF	60851-34-5	107	B	0.0954	5.31	1
11031	1234678-HpCDF	67562-39-4	145	B	0.127	5.31	1
11031	1234789-HpCDF	55673-89-7	107	B	0.115	5.31	1
11031	OCDF	39001-02-0	290	B	0.0775	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203648
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203648
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 09:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203649
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20MSD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-333-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203649
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20MSD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.6	B	0.0296	1.06	1
11031	12378-PeCDD	40321-76-4	113	B	0.0933	5.31	1
11031	123478-HxCDD	39227-28-6	114		0.247	5.31	1
11031	123678-HxCDD	57653-85-7	120	B	0.245	5.31	1
11031	123789-HxCDD	19408-74-3	118	B	0.212	5.31	1
11031	1234678-HpCDD	35822-46-9	505	B	0.322	5.31	1
11031	OCDD	3268-87-9	5,210	EB	0.524	10.6	1
11031	2378-TCDF	51207-31-9	23.4	B	0.0464	1.06	1
11031	12378-PeCDF	57117-41-6	108	B	0.0567	5.31	1
11031	23478-PeCDF	57117-31-4	108	B	0.0562	5.31	1
11031	123478-HxCDF	70648-26-9	110	B	0.200	5.31	1
11031	123678-HxCDF	57117-44-9	109	B	0.135	5.31	1
11031	123789-HxCDF	72918-21-9	107	B	0.0980	5.31	1
11031	234678-HxCDF	60851-34-5	110	B	0.0925	5.31	1
11031	1234678-HpCDF	67562-39-4	170	B	0.206	5.31	1
11031	1234789-HpCDF	55673-89-7	111	B	0.163	5.31	1
11031	OCDF	39001-02-0	330	B	0.135	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203649
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20MSD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SS-0.0-0.5

LLI Sample # SW 6203649
LLI Group # 1232754
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:05

Submitted: 02/11/2011 09:40
Reported: 03/03/2011 20:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4920 SDG#: DX049-20MSD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11048001	02/23/2011 10:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11048001	02/17/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232754
Reported: 03/03/11 at 08:22 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11052162401B	Sample number(s): 6203639,6203646-6203649								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11054162401B	Sample number(s): 6203640-6203645								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11048001	Sample number(s): 6203639-6203649								
2378-TCDD	0.0120 J	0.00880	1.00	ng/kg	108		67-158		
12378-PeCDD	0.0287 J	0.00920	5.00	ng/kg	108		70-142		
123478-HxCDD	0.00830 U	0.00830	5.00	ng/kg	106		70-164		
123678-HxCDD	0.0117 J	0.00820	5.00	ng/kg	105		76-134		
123789-HxCDD	0.0162 J	0.00790	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.119 J	0.0109	5.00	ng/kg	104		70-140		
OCDD	0.260 J	0.0138	10.0	ng/kg	103		78-144		
2378-TCDF	0.00997 J	0.00800	1.00	ng/kg	129		75-158		
12378-PeCDF	0.0112 J	0.00520	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0490 J	0.00550	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0263 J	0.0106	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0167 J	0.00710	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0163 J	0.00830	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0117 J	0.00660	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0427 J	0.00600	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0202 J	0.00860	5.00	ng/kg	103		78-138		
OCDF	0.121 J	0.0127	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11052162401B	Sample number(s): 6203639,6203646-6203649 BKG: P203555								
28a Moisture Content by 160.3						5.8	5.8	1	20
Batch number: 11054162401B	Sample number(s): 6203640-6203645 BKG: P203548								
28a Moisture Content by 160.3						14.6	13.4	9	20
Batch number: 11048001	Sample number(s): 6203639-6203649 UNSPK: 6203647								
2378-TCDD	100	106	67-158	5	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232754
Reported: 03/03/11 at 08:22 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	100	105	70-142	4	25				
123478-HxCDD	99	104	70-164	5	25				
123678-HxCDD	97	105	76-134	7	25				
123789-HxCDD	97	104	64-162	6	25				
1234678-HpCDD	43*	170*	70-140	31*	25				
OCDD	-104 (2)	617 (2)	78-144	34*	25				
2378-TCDF	103	110	75-158	7	25				
12378-PeCDF	97	102	80-134	5	25				
23478-PeCDF	97	101	68-160	4	25				
123478-HxCDF	97	100	72-134	4	25				
123678-HxCDF	97	99	84-130	2	25				
123789-HxCDF	96	100	78-130	3	25				
234678-HxCDF	99	101	70-156	2	25				
1234678-HpCDF	86	109	82-122	15	25				
1234789-HpCDF	96	100	78-138	4	25				
OCDF	90	109	63-170	13	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11048001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6203639	76	74	38	49	77	78
6203640	77	69	43	64	68	56
6203641	81	76	48	64	72	67
6203642	76	81	61	78	78	72
6203643	83	77	37	49	79	77
6203644	84	84	44	58	86	89
6203645	85	86	40	56	85	82
6203646	82	78	55	69	79	77
6203647	81	82	38	50	80	80
6203648	87	83	45	58	79	78
6203649	79	78	37	52	78	78
Blank	73	69	43	62	69	60
MS	87	83	45	58	79	78
MSD	79	78	37	52	78	78
OPR	68	56	27	45	57	46
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6203639	46	73	62	90	78	65
6203640	69	53	47	92	74	72

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232754
Reported: 03/03/11 at 08:22 PM

Surrogate Quality Control

6203641	70	64	58	93	79	76
6203642	85	67	62	93	82	78
6203643	45	73	65	94	80	66
6203644	54	79	69	103	85	72
6203645	54	77	65	96	87	67
6203646	68	67	57	93	79	77
6203647	48	75	66	93	83	68
6203648	57	75	68	95	87	76
6203649	50	73	67	91	79	74
Blank	71	58	53	92	73	70
MS	57	75	68	95	87	76
MSD	50	73	67	91	79	74
OPR	54	43	39	80	66	58
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6203639	71	78	74	68	80	77
6203640	75	75	74	68	74	82
6203641	78	78	79	75	78	83
6203642	80	80	79	74	80	89
6203643	75	81	78	75	83	80
6203644	80	87	82	79	86	88
6203645	76	86	81	75	90	97
6203646	79	80	75	67	81	82
6203647	76	82	79	77	83	84
6203648	79	84	82	78	86	84
6203649	74	81	78	75	83	79
Blank	73	74	74	71	70	79
MS	79	84	82	78	86	84
MSD	74	81	78	75	83	79
OPR	62	67	66	65	60	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

QC# 13013 Cap# 12332754 Sample #: 6203039-49

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hartman, Cindy Hurlbert

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Cadmium EPA 6010 (Metals not used)	Triethylene EPA 8270 (HpCDD not used)	VOCs: VOCs EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: *pH EPA 9045C	*TPH-EPH EPA 8015B Mod.	*Nitrates EPA 300.0	*Formaldehyde EPA 8315A	*n-NDMA EPA 1625C	*Energetics EPA 8330A	*Cyanide EPA 9012B	*Terphenyls EPA 8015B	*Glycols EPA 8015B	*Alcohols EPA 8015B	Other Instructions and Notes
DUP-024-GC-021011	2.10.2011	1305	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
DUP-024-GC-021011	2.10.2011	1305	SOIL	NONE	1-6 inch sleeve			X	X																				
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	6-1L Amber jars			X	X	X				X	X														RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	1-500 ml poly		X				X	X																	RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	HN03	1-500 ml poly	X																							RINSATE FOR SS TOOL
SL-316-SA5B-SB-3.5-4.0	2.10.2011	1055	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-316-SA5B-SB-3.5	2.10.2011	1051	SOIL	NONE	5-Encores											X	X	X											
SL-317-SA5B-SB-3.0-4.0	2.10.2011	1206	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-317-SA5B-SB-3.5	2.10.2011	1202	SOIL	NONE	5-Encores											X	X	X											
SL-318-SA5B-SB-4.0-5.0	2.10.2011	1527	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X*	
SL-318-SA5B-SB-4.5	2.10.2011	1522	SOIL	NONE	5-Encores											X	X	X											
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X														
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-326-SA5B-SB-14.0-15.0	2.10.2011	0859	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-326-SA5B-SB-14.5	2.10.2011	0854	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-18.5-19.5	2.10.2011	0909	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-326-SA5B-SB-19.0	2.10.2011	0903	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-9.0-10.0	2.10.2011	0848	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-326-SA5B-SB-9.5	2.10.2011	0845	SOIL	NONE	5-Encores											X	X	X											
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0949	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0949	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-16 oz jars	X	X			X	X	X		X	X														
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-6-inch sleeves			X	X																				
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-6-inch sleeve			X	X																				
TB-021011	2.10.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/10/2011 / 17:00

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature): Mary M. LLS 2/11/11 940

Airbill No.(s): 8695 1432 2957, ...2968, ...2979, ...2980

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 4

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/11/2011
Group Number: 1232755
SDG: DX050
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-334-SA5B-SS-0.0-0.5 Soil	6203650
SL-335-SA5B-SS-0.0-0.5 Soil	6203651

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-334-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203650
LLI Group # 1232755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/12/2011 12:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX050-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-334-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203650
LLI Group # 1232755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/12/2011 12:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX050-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0518	J	0.0134	1.12	1
11031	12378-PeCDD	40321-76-4	0.402	JQ	0.0361	5.61	1
11031	123478-HxCDD	39227-28-6	0.843	JBQ	0.0978	5.61	1
11031	123678-HxCDD	57653-85-7	2.04	JB	0.0888	5.61	1
11031	123789-HxCDD	19408-74-3	1.91	J	0.0829	5.61	1
11031	1234678-HpCDD	35822-46-9	64.0	B	0.0893	5.61	1
11031	OCDD	3268-87-9	657	B	0.119	11.2	1
11031	2378-TCDF	51207-31-9	0.237	JB	0.0410	1.12	1
11031	12378-PeCDF	57117-41-6	0.110	JB	0.0305	5.61	1
11031	23478-PeCDF	57117-31-4	0.772	JB	0.0292	5.61	1
11031	123478-HxCDF	70648-26-9	0.654	JB	0.113	5.61	1
11031	123678-HxCDF	57117-44-9	1.02	JB	0.0853	5.61	1
11031	123789-HxCDF	72918-21-9	0.359	JBQ	0.0569	5.61	1
11031	234678-HxCDF	60851-34-5	0.617	JB	0.0499	5.61	1
11031	1234678-HpCDF	67562-39-4	8.77	B	0.0806	5.61	1
11031	1234789-HpCDF	55673-89-7	0.770	JB	0.0602	5.61	1
11031	OCDF	39001-02-0	18.2	B	0.0432	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	43	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	39	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-334-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203650
LLI Group # 1232755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/12/2011 12:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX050-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-334-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-334-SA5B-SS-0.0-0.5

LLI Sample # SW 6203650
LLI Group # 1232755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 14:49

Submitted: 02/11/2011 09:40
Reported: 03/12/2011 12:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX050-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/25/2011 21:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-335-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203651
LLI Group # 1232755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/12/2011 12:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX050-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-335-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203651
LLI Group # 1232755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/12/2011 12:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX050-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0236	J	0.0133	1.10	1
11031	12378-PeCDD	40321-76-4	0.272	JQ	0.0281	5.49	1
11031	123478-HxCDD	39227-28-6	0.602	JB	0.111	5.49	1
11031	123678-HxCDD	57653-85-7	1.20	JB	0.0933	5.49	1
11031	123789-HxCDD	19408-74-3	1.08	JQ	0.0644	5.49	1
11031	1234678-HpCDD	35822-46-9	42.9	B	0.0832	5.49	1
11031	OCDD	3268-87-9	444	B	0.0790	11.0	1
11031	2378-TCDF	51207-31-9	0.0336	JBQ	0.0119	1.10	1
11031	12378-PeCDF	57117-41-6	0.0379	JB	0.0155	5.49	1
11031	23478-PeCDF	57117-31-4	0.232	JB	0.0173	5.49	1
11031	123478-HxCDF	70648-26-9	1.02	JB	0.117	5.49	1
11031	123678-HxCDF	57117-44-9	0.565	JB	0.0818	5.49	1
11031	123789-HxCDF	72918-21-9	0.205	JB	0.0391	5.49	1
11031	234678-HxCDF	60851-34-5	0.359	JB	0.0346	5.49	1
11031	1234678-HpCDF	67562-39-4	6.11	B	0.0800	5.49	1
11031	1234789-HpCDF	55673-89-7	0.550	JB	0.0447	5.49	1
11031	OCDF	39001-02-0	11.5	B	0.0618	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	47	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	32	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-335-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203651
LLI Group # 1232755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/12/2011 12:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX050-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-335-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SS-0.0-0.5

LLI Sample # SW 6203651
LLI Group # 1232755
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/10/2011 13:30

Submitted: 02/11/2011 09:40
Reported: 03/12/2011 12:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX050-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/25/2011 22:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232755
Reported: 03/12/11 at 12:42 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11052162401B	Sample number(s): 6203650-6203651								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11052001	Sample number(s): 6203650-6203651								
2378-TCDD	0.0111 U	0.0111	1.00	ng/kg	112		67-158		
12378-PeCDD	0.00790 U	0.00790	5.00	ng/kg	114		70-142		
123478-HxCDD	0.00913 J	0.00870	5.00	ng/kg	112		70-164		
123678-HxCDD	0.0152 J	0.00900	5.00	ng/kg	109		76-134		
123789-HxCDD	0.00860 U	0.00860	5.00	ng/kg	109		64-162		
1234678-HpCDD	0.154 J	0.0103	5.00	ng/kg	106		70-140		
OCDD	0.286 J	0.0148	10.0	ng/kg	104		78-144		
2378-TCDF	0.0160 J	0.00720	1.00	ng/kg	123		75-158		
12378-PeCDF	0.0225 J	0.00500	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0499 J	0.00500	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0339 J	0.00560	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0145 J	0.00470	5.00	ng/kg	108		84-130		
123789-HxCDF	0.0329 J	0.00550	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0128 J	0.00470	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.0408 J	0.00500	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0129 J	0.00720	5.00	ng/kg	104		78-138		
OCDF	0.0988 J	0.0122	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11052162401B	Sample number(s): 6203650-6203651					BKG: P203555			
28a Moisture Content by 160.3						5.8	5.8	1	20
Batch number: 11052001	Sample number(s): 6203650-6203651					UNSPK: P206996			
2378-TCDD	108	107	67-158	1	25				
12378-PeCDD	110	109	70-142	1	25				
123478-HxCDD	106	107	70-164	1	25				
123678-HxCDD	107	107	76-134	0	25				
123789-HxCDD	107	106	64-162	0	25				
1234678-HpCDD	106	105	70-140	1	25				
OCDD	113	103	78-144	9	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232755
Reported: 03/12/11 at 12:42 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	116	116	75-158	0	25				
12378-PeCDF	106	105	80-134	0	25				
23478-PeCDF	106	108	68-160	1	25				
123478-HxCDF	104	106	72-134	1	25				
123678-HxCDF	105	104	84-130	1	25				
123789-HxCDF	104	103	78-130	0	25				
234678-HxCDF	106	104	70-156	2	25				
1234678-HpCDF	105	101	82-122	3	25				
1234789-HpCDF	102	102	78-138	0	25				
OCDF	104	103	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11052001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6203650	77	86	39	51	87	80
6203651	80	84	28	37	89	84
Blank	76	97	80	94	91	88
MS	84	97	47	60	89	84
MSD	73	82	66	79	79	76
OPR	73	91	68	81	85	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6203650	39	61	43	89	79	64
6203651	32	70	49	80	84	47
Blank	96	76	66	102	90	84
MS	62	72	60	101	92	75
MSD	77	61	49	91	77	75
OPR	84	71	62	91	82	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6203650	71	75	60	43	91	89
6203651	60	78	62	56	94	100
Blank	85	84	81	72	85	105
MS	78	83	76	67	92	103
MSD	74	74	65	55	81	89
OPR	79	78	76	68	81	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1232755
Reported: 03/12/11 at 12:42 PM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Grp#1232755 Sample#: 6203650-51

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
§ Moisture by ERA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hartman, Chad Burkhart

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196A	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Perchlorate EPA 6850 (1 extra vial per day)	*Perchlorate EPA 6850 (Duplicate, Triplicate, Matrix Spike)	VOCs: VOCs EPA 8260B §	1,4-Dioxane EPA 8260B SIM §	TPH-GRO EPA 8015B §	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
DUP-024-QC-021011	2.10.2011	1305	SOIL	NONE	1-6-inch sleeve			X	X																				
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	6-1L Amber jars			X	X	X				X	X														RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	NONE	1-500 ml poly		X				X	X																	RINSATE FOR SS TOOL
EB31-SA5B-021011	2.10.2011	1515	WATER	HN03	1-500 ml poly	X																							RINSATE FOR SS TOOL
SL-315-SA5B-SB-3.0-4.0	2.10.2011	1055	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-315-SA5B-SB-3.5	2.10.2011	1051	SOIL	NONE	5-Encores											X	X	X											
SL-317-SA5B-SB-3.0-4.0	2.10.2011	1206	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-317-SA5B-SB-3.5	2.10.2011	1202	SOIL	NONE	5-Encores											X	X	X											
SL-319-SA5B-SB-4.0-5.0	2.10.2011	1527	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-319-SA5B-SB-4.5	2.10.2011	1522	SOIL	NONE	5-Encores											X	X	X											
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X														
SL-321-SA5B-SS-0.0-0.5	2.10.2011	0906	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0926	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-322-SA5B-SS-0.0-0.5	2.10.2011	0925	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-326-SA5B-SB-14.0-15.0	2.10.2011	0859	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-14.5	2.10.2011	0854	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-18.5-19.5	2.10.2011	0909	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-19.0	2.10.2011	0903	SOIL	NONE	5-Encores											X	X	X											
SL-326-SA5B-SB-9.0-10.0	2.10.2011	0848	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-326-SA5B-SB-9.5	2.10.2011	0845	SOIL	NONE	5-Encores											X	X	X											
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0949	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-329-SA5B-SS-0.0-0.5	2.10.2011	0948	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-330-SA5B-SS-0.0-0.5	2.10.2011	1008	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	2-16 oz. jars	X	X			X	X	X		X	X				X	X	X	X	X	X	X	X	X		
SL-331-SA5B-SS-0.0-0.5	2.10.2011	1035	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-332-SA5B-SS-0.0-0.5	2.10.2011	1423	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-16 oz jars	X	X			X	X	X		X	X														
SL-333-SA5B-SS-0.0-0.5MS	2.10.2011	1305	SOIL	NONE	3-6-inch sleeves			X	X																				
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-334-SA5B-SS-0.0-0.5	2.10.2011	1449	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-335-SA5B-SS-0.0-0.5	2.10.2011	1330	SOIL	NONE	1-6-inch sleeve			X	X																				
TB-021011	2.10.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/10/2011 / 17:00

Received for Laboratory by: (Signature). — LLS 2/11/11 940

Received by: (Signature) — Date/Time

Airbill No.(s)

8695 1432 2957, ...2968, ...2979, ...2980

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 4

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/15/2011
Group Number: 1233076
SDG: DE081
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-049-SA5B-SS-0.0-0.5 Soil	6205493
SL-138-SA5B-SS-0.0-0.5 Soil	6205494
SL-141-SA5B-SS-0.0-0.5 Soil	6205495
SL-144-SA5B-SS-0.0-0.5 Soil	6205496
SL-253-SA5B-SS-0.0-0.5 Soil	6205497
SL-254-SA5B-SS-0.0-0.5 Soil	6205498
SL-289-SA5B-SS-0.0-0.5 Soil	6205499
SL-324-SA5B-SB-4.0-5.0 Soil	6205500
SL-324-SA5B-SB-8.0-9.0 Soil	6205501
TB-021411 Water	6205502

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-049-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205493
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE081-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205493
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE081-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19		6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	87	J	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205493
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE081-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35		1
01363	p,p-DDT	50-29-3	0.068	U	0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. A reextraction was performed outside the sample hold time. Results from the reextraction are within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205493
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE081-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	2,770		5.12	20.4		1
07914	Boron	7440-42-8	1.49	J	0.906	5.09		1
01650	Calcium	7440-70-2	9,610		6.24	20.4		1
01654	Iron	7439-89-6	4,530		4.79	20.4		1
01656	Lithium	7439-93-2	3.3		0.22	2.0		1
01657	Magnesium	7439-95-4	800		2.58	10.2		1
06958	Manganese	7439-96-5	85.8		0.0794	0.509		1
10145	Phosphorus	7723-14-0	452		0.570	10.2		1
01662	Potassium	7440-09-7	452		18.3	50.9		1
01667	Sodium	7440-23-5	56.5	J	38.0	102		1
07968	Strontium	7440-24-6	18.4		0.0631	0.509		1
06969	Tin	7440-31-5	1.75	J	1.02	10.2		1
06970	Titanium	7440-32-6	172		0.387	1.02		1
10146	Zirconium	7440-67-7	2.48	J	0.855	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0605	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.86		0.0806	0.403		2
06126	Barium	7440-39-3	20.6		0.109	0.403		2
06127	Beryllium	7440-41-7	0.156		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.0873	J	0.0403	0.101		2
06131	Chromium	7440-47-3	14.1		0.121	0.403		2
06132	Cobalt	7440-48-4	2.75		0.0202	0.101		2
06133	Copper	7440-50-8	3.31		0.0665	0.403		2
06135	Lead	7439-92-1	1.71		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.634		0.0504	0.101		2
06139	Nickel	7440-02-0	8.03		0.101	0.403		2
06141	Selenium	7782-49-2	0.154	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.0121	U	0.0121	0.101		2
06145	Thallium	7440-28-0	0.0618	J	0.0302	0.101		2
06148	Vanadium	7440-62-2	16.2		0.0222	0.101		2
06149	Zinc	7440-66-6	11.8		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.0995		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205493
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE081-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	401	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.24	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011 08:08	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/24/2011 22:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011 07:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110530018A	02/24/2011 09:49	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011 18:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 10:06	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110530018A	02/23/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011 10:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205493
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE081-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 09:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 20:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 09:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/25/2011 09:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/01/2011 22:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621202A	02/24/2011 03:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11055243201A	02/25/2011 15:33	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621202A	02/23/2011 13:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205494
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL138 SDG#: DE081-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	22	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	22	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	35	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	32	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	160	J	18	180		1
04688	Di-n-butylphthalate	84-74-2	60	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	31	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	150	J	18	370		1
04688	Fluoranthene	206-44-0	38	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	20	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205494
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL138 SDG#: DE081-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	110	J	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	35	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.85	J	0.37	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.73	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.0	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Phenanthrene	85-01-8	2.9		0.73	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	6.3		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	J	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	290		84	280		1
10401	MCPP (Mecoprop)	93-65-2	370	U	370	370		1
10401	2,4,5-T	93-76-5	0.30	U	0.30	0.30		1
10401	2,4,5-TP	93-72-1	0.15	U	0.15	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP, 2,4,5-TP and 2,4,5-T.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205494
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL138 SDG#: DE081-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	22	U	22	22		5
01363	p,p-DDD	72-54-8	0.36	U	0.36	1.9		5
01363	p,p-DDE	72-55-9	1.4	U	1.4	1.9		5
01363	p,p-DDT	50-29-3	3.0	U	3.0	3.0		5
01363	Delta BHC	319-86-8	0.14	U	0.14	0.18		1
01363	Dieldrin	60-57-1	0.76	U	0.76	1.9		5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.91		5
01363	Endosulfan II	33213-65-9	0.36	U	0.36	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.36	U	0.36	1.9		5
01363	Endrin	72-20-8	0.36	U	0.36	1.9		5
01363	Endrin Aldehyde	7421-93-4	1.4	U	1.4	1.9		5
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	1.9		5
01363	Heptachlor	76-44-8	0.088	U	0.088	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.91		5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.1		5
01363	Mirex	2385-85-5	0.36	U	0.36	1.9		5
01363	Toxaphene	8001-35-2	12	U	12	36		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. A reextraction was performed outside the sample hold time. Results from the reextraction are within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.
Due to interfering peaks on the chromatogram, the values reported various compounds represent the lowest reporting limits attainable.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	55	U	55	180		50
10225	Aroclor 5442	12642-23-8	55	U	55	180		50
10225	Aroclor 5460	11126-42-4	650		55	180		50
10225	PCB-1016	12674-11-2	18	U	18	94		50
10225	PCB-1221	11104-28-2	18	U	18	94		50
10225	PCB-1232	11141-16-5	18	U	18	94		50
10225	PCB-1242	53469-21-9	18	U	18	94		50
10225	PCB-1248	12672-29-6	200		18	94		50
10225	PCB-1254	11097-69-1	240		18	94		50

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205494
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL138 SDG#: DE081-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	120		21	94		50
10225	PCB-1262	37324-23-5	18	U	18	94		50
10225	PCB-1268	11100-14-4	18	U	18	94		50
	The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		5.38	21.4		1
07914	Boron	7440-42-8	2.91	J	0.952	5.35		1
01650	Calcium	7440-70-2	4,520		6.55	21.4		1
01654	Iron	7439-89-6	20,600		5.04	21.4		1
01656	Lithium	7439-93-2	25.9		0.24	2.1		1
01657	Magnesium	7439-95-4	4,810		2.72	10.7		1
06958	Manganese	7439-96-5	190		0.0834	0.535		1
10145	Phosphorus	7723-14-0	508		0.599	10.7		1
01662	Potassium	7440-09-7	3,070		19.2	53.5		1
01667	Sodium	7440-23-5	151		39.9	107		1
07968	Strontium	7440-24-6	16.3		0.0663	0.535		1
06969	Tin	7440-31-5	3.48	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,060		0.406	1.07		1
10146	Zirconium	7440-67-7	1.38	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.595		0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.47		0.0881	0.441		2
06126	Barium	7440-39-3	91.5		0.119	0.441		2
06127	Beryllium	7440-41-7	0.580		0.0176	0.110		2
06128	Cadmium	7440-43-9	1.44		0.0441	0.110		2
06131	Chromium	7440-47-3	63.3		0.132	0.441		2
06132	Cobalt	7440-48-4	7.34		0.0220	0.110		2
06133	Copper	7440-50-8	53.5		0.0727	0.441		2
06135	Lead	7439-92-1	36.4		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.453		0.0551	0.110		2
06139	Nickel	7440-02-0	31.1		0.110	0.441		2
06141	Selenium	7782-49-2	0.171	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.167		0.0132	0.110		2
06145	Thallium	7440-28-0	0.282		0.0330	0.110		2
06148	Vanadium	7440-62-2	40.4		0.0242	0.110		2
06149	Zinc	7440-66-6	162		0.617	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205494
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL138 SDG#: DE081-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.856		0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	444		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011 09:23	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/24/2011 23:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011 07:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110530018A	02/24/2011 11:11	John W Perkins	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205494
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL138 SDG#: DE081-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:20	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011 19:13	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011 19:28	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/10/2011 14:00	Richard A Shober	50
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110530018A	02/23/2011 02:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011 03:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:22	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 09:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 20:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 09:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 09:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/26/2011 23:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205494
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL138 SDG#: DE081-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/01/2011 23:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621202A	02/24/2011 05:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 15:39	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621202A	02/23/2011 13:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-141-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205495
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL141 SDG#: DE081-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-141-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205495
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL141 SDG#: DE081-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.9		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	1.2	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.5	J	0.72	1.8		1
10138	Pyrene	129-00-0	1.1	J	0.72	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	4.1	U	4.1	4.1		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	110	J	81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-141-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205495
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL141 SDG#: DE081-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.25		0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.57		0.071	0.37		1
01363	p,p-DDT	50-29-3	0.64		0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.17	J	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. A reextraction was performed outside the sample hold time. Results from the reextraction are within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.40	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205495
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL141 SDG#: DE081-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.30	21.1		1
07914	Boron	7440-42-8	3.59	J	0.937	5.27		1
01650	Calcium	7440-70-2	3,290		6.46	21.1		1
01654	Iron	7439-89-6	27,300		4.96	21.1		1
01656	Lithium	7439-93-2	29.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,890		2.67	10.5		1
06958	Manganese	7439-96-5	415		0.0821	0.527		1
10145	Phosphorus	7723-14-0	295		0.590	10.5		1
01662	Potassium	7440-09-7	2,850		19.0	52.7		1
01667	Sodium	7440-23-5	83.9	J	39.3	105		1
07968	Strontium	7440-24-6	29.1		0.0653	0.527		1
06969	Tin	7440-31-5	2.51	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,220		0.400	1.05		1
10146	Zirconium	7440-67-7	2.49	J	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0626	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.93		0.0834	0.417		2
06126	Barium	7440-39-3	147		0.113	0.417		2
06127	Beryllium	7440-41-7	0.767		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.263		0.0417	0.104		2
06131	Chromium	7440-47-3	24.2		0.125	0.417		2
06132	Cobalt	7440-48-4	6.96		0.0209	0.104		2
06133	Copper	7440-50-8	11.3		0.0688	0.417		2
06135	Lead	7439-92-1	8.71		0.0108	0.209		2
06138	Molybdenum	7439-98-7	0.497		0.0521	0.104		2
06139	Nickel	7440-02-0	17.3		0.104	0.417		2
06141	Selenium	7782-49-2	0.139	J	0.0417	0.417		2
06142	Silver	7440-22-4	0.0440	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.328		0.0313	0.104		2
06148	Vanadium	7440-62-2	46.3		0.0229	0.104		2
06149	Zinc	7440-66-6	68.5		0.584	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0086	J	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.21	1.1		1

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Sample Description: **SL-141-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205495
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL141 SDG#: DE081-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	528	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.65	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011	09:48	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/24/2011	23:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011	07:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110530018A	02/24/2011	11:39	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011	20:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011	10:43	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110530018A	02/23/2011	02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011	06:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011	06:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011	06:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011	06:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011	03:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011	06:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011	06:33	Tara L Snyder	1

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Analysis Report

Sample Description: SL-141-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205495
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL141 SDG#: DE081-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011 06:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011 06:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011 06:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011 06:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011 06:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 09:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 20:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 09:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/25/2011 09:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/01/2011 23:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621202A	02/24/2011 05:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11055243201A	02/25/2011 15:58	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621202A	02/23/2011 13:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-144-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205496
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL144 SDG#: DE081-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	46	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-144-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205496
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL144 SDG#: DE081-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.82	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.86	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.3	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.76	J	0.73	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	2.1		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	160	J	84	280		1
10401	MCPP (Mecoprop)	93-65-2	100	J	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1

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Sample Description: SL-144-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205496
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL144 SDG#: DE081-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.37		1
01363	p,p-DDT	50-29-3	0.073	U	0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. The TCX sample surrogate is also outside the QC limits. A reextraction was performed outside the sample hold time. Results from the reextraction are within the QC limits. Similar results were obtained in both extractions, except the reextracted sample has raised limits due to the presence of PCBs. The original, in hold, trial data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,200		5.32	21.2		1
07914	Boron	7440-42-8	3.11	J	0.941	5.29		1
01650	Calcium	7440-70-2	3,130		6.48	21.2		1
01654	Iron	7439-89-6	19,300		4.98	21.2		1
01656	Lithium	7439-93-2	25.2		0.23	2.1		1
01657	Magnesium	7439-95-4	3,790		2.69	10.6		1

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Sample Description: **SL-144-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205496
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL144 SDG#: DE081-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	202		0.0825	0.529		1
10145	Phosphorus	7723-14-0	391		0.592	10.6		1
01662	Potassium	7440-09-7	2,470		19.0	52.9		1
01667	Sodium	7440-23-5	118		39.5	106		1
07968	Strontium	7440-24-6	14.5		0.0656	0.529		1
06969	Tin	7440-31-5	2.64	J	1.06	10.6		1
06970	Titanium	7440-32-6	901		0.402	1.06		1
10146	Zirconium	7440-67-7	1.64	J	0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.194	J	0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.54		0.0854	0.427		2
06126	Barium	7440-39-3	95.2		0.115	0.427		2
06127	Beryllium	7440-41-7	0.624		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.574		0.0427	0.107		2
06131	Chromium	7440-47-3	20.5		0.128	0.427		2
06132	Cobalt	7440-48-4	6.13		0.0214	0.107		2
06133	Copper	7440-50-8	13.9		0.0705	0.427		2
06135	Lead	7439-92-1	21.6		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.393		0.0534	0.107		2
06139	Nickel	7440-02-0	14.4		0.107	0.427		2
06141	Selenium	7782-49-2	0.197	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.233		0.0128	0.107		2
06145	Thallium	7440-28-0	0.266		0.0320	0.107		2
06148	Vanadium	7440-62-2	39.3		0.0235	0.107		2
06149	Zinc	7440-66-6	154		0.598	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0740	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	483		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-144-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205496
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL144 SDG#: DE081-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011	10:13	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011	00:26	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011	07:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110530018A	02/24/2011	12:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011	20:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011	11:01	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110530018A	02/23/2011	02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011	03:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011	06:37	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205496
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL144 SDG#: DE081-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 09:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 20:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 09:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 09:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/26/2011 20:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/01/2011 23:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621202A	02/24/2011 06:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11055243201A	02/25/2011 16:10	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621202A	02/23/2011 13:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205497
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE081-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205497
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE081-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5		1
10401	2,4-DB	94-82-6	2.9	U	2.9	2.9		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	140	J	79	260		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.26		0.079	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205497
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE081-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.11	J	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.25	J	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. A reextraction was performed outside the sample hold time. Results from the reextraction are within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205497
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE081-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		5.24	20.8		1
07914	Boron	7440-42-8	3.95	J	0.926	5.20		1
01650	Calcium	7440-70-2	2,910		6.38	20.8		1
01654	Iron	7439-89-6	24,300		4.90	20.8		1
01656	Lithium	7439-93-2	23.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,240		2.64	10.4		1
06958	Manganese	7439-96-5	444		0.0812	0.520		1
10145	Phosphorus	7723-14-0	281		0.583	10.4		1
01662	Potassium	7440-09-7	3,340		18.7	52.0		1
01667	Sodium	7440-23-5	89.8	J	38.8	104		1
07968	Strontium	7440-24-6	29.2		0.0645	0.520		1
06969	Tin	7440-31-5	2.43	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,160		0.395	1.04		1
10146	Zirconium	7440-67-7	2.03	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0612	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.45		0.0817	0.408		2
06126	Barium	7440-39-3	147		0.110	0.408		2
06127	Beryllium	7440-41-7	0.763		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.334		0.0408	0.102		2
06131	Chromium	7440-47-3	22.0		0.122	0.408		2
06132	Cobalt	7440-48-4	7.45		0.0204	0.102		2
06133	Copper	7440-50-8	12.9		0.0674	0.408		2
06135	Lead	7439-92-1	8.29		0.0106	0.204		2
06138	Molybdenum	7439-98-7	0.595		0.0510	0.102		2
06139	Nickel	7440-02-0	15.9		0.102	0.408		2
06141	Selenium	7782-49-2	0.163	J	0.0408	0.408		2
06142	Silver	7440-22-4	0.0380	J	0.0122	0.102		2
06145	Thallium	7440-28-0	0.353		0.0306	0.102		2
06148	Vanadium	7440-62-2	41.7		0.0225	0.102		2
06149	Zinc	7440-66-6	62.0		0.572	3.06		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-253-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205497
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE081-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	523	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.68	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011	10:38	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011	00:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011	07:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110530018A	02/24/2011	12:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011	20:39	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011	11:20	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110530018A	02/23/2011	02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011	06:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011	06:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011	06:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011	06:41	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011	03:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011	06:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011	06:41	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205497
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL253 SDG#: DE081-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011 06:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011 06:41	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011 06:41	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011 06:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011 06:41	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 10:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 20:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 10:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/25/2011 10:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/02/2011 00:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621202A	02/24/2011 06:47	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11055243201A	02/25/2011 16:23	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621202A	02/23/2011 13:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-254-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205498
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE081-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205498
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE081-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.81	J	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.8		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	2.2		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	1.4	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.78	J	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.72	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	2.0		0.69	1.7		1
10138	Pyrene	129-00-0	1.1	J	0.69	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	3.9	U	3.9	3.9		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	480		79	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.19	U	0.19	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.
Due to interfering peaks on the chromatogram, the values reported for 2,4,5-TP represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-254-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205498
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE081-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.35		1
01363	p,p-DDE	72-55-9	0.20	J	0.069	0.35		1
01363	p,p-DDT	50-29-3	0.38		0.069	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	4.3		0.34	1.8		5
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35		1
01363	Endrin	72-20-8	0.069	U	0.069	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.35		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35		1
01363	Heptachlor	76-44-8	0.083	U	0.083	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.19	J	0.069	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. A reextraction was performed outside the sample hold time. Results from the reextraction are within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.
Due to interfering peaks on the chromatogram, the values reported for heptachlor represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-254-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205498
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE081-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		5.17	20.6		1
07914	Boron	7440-42-8	3.55	J	0.915	5.14		1
01650	Calcium	7440-70-2	2,620		6.30	20.6		1
01654	Iron	7439-89-6	24,000		4.84	20.6		1
01656	Lithium	7439-93-2	23.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,360		2.61	10.3		1
06958	Manganese	7439-96-5	408		0.0802	0.514		1
10145	Phosphorus	7723-14-0	376		0.576	10.3		1
01662	Potassium	7440-09-7	3,270		18.5	51.4		1
01667	Sodium	7440-23-5	82.7	J	38.3	103		1
07968	Strontium	7440-24-6	24.0		0.0637	0.514		1
06969	Tin	7440-31-5	2.57	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,130		0.391	1.03		1
10146	Zirconium	7440-67-7	2.30	J	0.864	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0611	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.91		0.0814	0.407		2
06126	Barium	7440-39-3	159		0.110	0.407		2
06127	Beryllium	7440-41-7	0.832		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.348		0.0407	0.102		2
06131	Chromium	7440-47-3	26.6		0.122	0.407		2
06132	Cobalt	7440-48-4	8.22		0.0204	0.102		2
06133	Copper	7440-50-8	14.3		0.0672	0.407		2
06135	Lead	7439-92-1	11.5		0.0106	0.204		2
06138	Molybdenum	7439-98-7	0.683		0.0509	0.102		2
06139	Nickel	7440-02-0	18.4		0.102	0.407		2
06141	Selenium	7782-49-2	0.198	J	0.0407	0.407		2
06142	Silver	7440-22-4	0.0471	J	0.0122	0.102		2
06145	Thallium	7440-28-0	0.336		0.0305	0.102		2
06148	Vanadium	7440-62-2	50.5		0.0224	0.102		2
06149	Zinc	7440-66-6	83.5		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-254-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205498
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE081-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	549	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	3.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011 16:00	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011 01:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011 07:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110530018A	02/24/2011 13:01	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011 20:53	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/26/2011 15:30	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 11:38	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110530018A	02/23/2011 02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011 03:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1

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Sample Description: **SL-254-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205498
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE081-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:45	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 10:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 20:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 10:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/25/2011 10:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/02/2011 00:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621202A	02/24/2011 07:11	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11055243201A	02/25/2011 16:35	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621202A	02/23/2011 13:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205499
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE081-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-289-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205499
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE081-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	J	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	1.4	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	1.7	J	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	1.6	J	0.70	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	3.3	U	3.3	3.3		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	130	J	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.17	J	0.079	0.18		1

Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-289-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205499
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE081-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. The TCX sample surrogate is also outside the QC limits. A reextraction was performed outside the sample hold time. Results from the reextraction are within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	1.6	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.49	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,200		5.16	20.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-289-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205499
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE081-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.10	J	0.913	5.13		1
01650	Calcium	7440-70-2	3,210		6.29	20.5		1
01654	Iron	7439-89-6	15,800		4.83	20.5		1
01656	Lithium	7439-93-2	15.8		0.23	2.1		1
01657	Magnesium	7439-95-4	3,290		2.61	10.3		1
06958	Manganese	7439-96-5	204		0.0801	0.513		1
10145	Phosphorus	7723-14-0	510		0.575	10.3		1
01662	Potassium	7440-09-7	2,170		18.5	51.3		1
01667	Sodium	7440-23-5	394		38.3	103		1
07968	Strontium	7440-24-6	28.9		0.0636	0.513		1
06969	Tin	7440-31-5	1.97	J	1.03	10.3		1
06970	Titanium	7440-32-6	779		0.390	1.03		1
10146	Zirconium	7440-67-7	2.94	J	0.862	5.13		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.158	J	0.0610	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.99		0.0813	0.407		2
06126	Barium	7440-39-3	107		0.110	0.407		2
06127	Beryllium	7440-41-7	0.513		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.772		0.0407	0.102		2
06131	Chromium	7440-47-3	22.0		0.122	0.407		2
06132	Cobalt	7440-48-4	5.57		0.0203	0.102		2
06133	Copper	7440-50-8	9.24		0.0671	0.407		2
06135	Lead	7439-92-1	7.65		0.0106	0.203		2
06138	Molybdenum	7439-98-7	0.753		0.0508	0.102		2
06139	Nickel	7440-02-0	13.5		0.102	0.407		2
06141	Selenium	7782-49-2	0.353	J	0.0407	0.407		2
06142	Silver	7440-22-4	0.0705	J	0.0122	0.102		2
06145	Thallium	7440-28-0	0.240		0.0305	0.102		2
06148	Vanadium	7440-62-2	38.0		0.0224	0.102		2
06149	Zinc	7440-66-6	67.6		0.569	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0679	J	0.0029	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-289-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205499
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE081-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	461	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.36	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	5.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011	16:25	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011	02:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011	07:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110530018A	02/24/2011	13:28	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011	21:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011	11:57	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110530018A	02/23/2011	02:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011	06:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011	06:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011	06:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011	06:49	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011	03:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011	06:49	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011	06:49	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-289-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205499
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL289 SDG#: DE081-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011 06:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011 06:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011 06:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011 06:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011 06:49	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:49	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 10:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 23:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 10:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/25/2011 10:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/02/2011 01:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 19:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11055243201A	02/25/2011 16:48	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-324-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3244 SDG#: DE081-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		1
06192	Benzene	71-43-2	0.11	U	0.11	4.3		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		1
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		1
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		1
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		1
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		1
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		1
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		1
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		1
06192	Ethylbenzene	100-41-4	0.09	J	0.06	4.3		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		1
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		1
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		1
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		1
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		1
06192	Methylene Chloride	75-09-2	0.81	J	0.26	4.3		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		1

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Sample Description: SL-324-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3244 SDG#: DE081-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		1
06192	Toluene	108-88-3	0.09	U	0.09	4.3		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		1
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		1
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		1
06192	m+p-Xylene	179601-23-1	0.25	J	0.18	4.3		1
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		23.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	89.4	U	89.4	179		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

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Sample Description: **SL-324-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3244 SDG#: DE081-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.85	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.74	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1

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Sample Description: **SL-324-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3244 SDG#: DE081-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.77
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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Sample Description: SL-324-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
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S3244 SDG#: DE081-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.79	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	27		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	120		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-324-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S3244 SDG#: DE081-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		5.21	20.7		1
07914	Boron	7440-42-8	1.78	J	0.921	5.18		1
01650	Calcium	7440-70-2	1,650		6.34	20.7		1
01654	Iron	7439-89-6	16,000		4.87	20.7		1
01656	Lithium	7439-93-2	16.2		0.23	2.1		1
01657	Magnesium	7439-95-4	3,110		2.63	10.4		1
06958	Manganese	7439-96-5	163		0.0807	0.518		1
10145	Phosphorus	7723-14-0	174		0.580	10.4		1
01662	Potassium	7440-09-7	2,350		18.6	51.8		1
01667	Sodium	7440-23-5	932		38.6	104		1
07968	Strontium	7440-24-6	11.4		0.0642	0.518		1
06969	Tin	7440-31-5	2.39	J	1.04	10.4		1
06970	Titanium	7440-32-6	871		0.393	1.04		1
10146	Zirconium	7440-67-7	0.869	U	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0627	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.00		0.0836	0.418		2
06126	Barium	7440-39-3	95.1		0.113	0.418		2
06127	Beryllium	7440-41-7	0.681		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.152		0.0418	0.105		2
06131	Chromium	7440-47-3	15.6		0.125	0.418		2
06132	Cobalt	7440-48-4	5.32		0.0209	0.105		2
06133	Copper	7440-50-8	9.26		0.0690	0.418		2
06135	Lead	7439-92-1	7.57		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.376		0.0523	0.105		2
06139	Nickel	7440-02-0	10.1		0.105	0.418		2
06141	Selenium	7782-49-2	0.164	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.0464	J	0.0125	0.105		2
06145	Thallium	7440-28-0	0.347		0.0314	0.105		2
06148	Vanadium	7440-62-2	35.3		0.0230	0.105		2
06149	Zinc	7440-66-6	75.8		0.585	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0038	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.7		0.86	1.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-324-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3244 SDG#: DE081-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	440		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-324-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110471AA	02/16/2011	16:34	Chelsea B Eastep	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011	20:15	Sara E Johnson	23.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104623688	02/15/2011	20:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104623688	02/15/2011	20:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104623688	02/15/2011	20:37	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104623688	02/15/2011	20:27	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011	13:08	Timothy J Trees	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-324-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3244 SDG#: DE081-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011 16:51	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011 02:34	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011 07:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 15:35	Marie D John	25.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104623688	02/15/2011 20:26	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 05:44	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 18:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 12:15	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/22/2011 13:14	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 20:36	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 21:31	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110470018A	02/17/2011 21:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110470018A	02/17/2011 03:00	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011 03:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:53	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 10:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2

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Sample Description: **SL-324-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205500
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3244 SDG#: DE081-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 20:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 10:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/25/2011 10:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/02/2011 01:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202A	03/02/2011 01:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621202A	02/24/2011 07:35	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 16:54	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 12:34	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621202A	02/23/2011 13:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401A	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-324-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.95
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.95
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.95
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.95
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.95
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.95
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.95
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.95
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.95
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.95
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.95
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.95
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.95
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.95
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.95
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.95
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.95
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.95
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.95
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.95
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.95
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.95
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.95
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.95
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.95
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.95
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.95
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.95
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.95
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.95
06192	Methylene Chloride	75-09-2	0.76	J	0.24	4.1		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-324-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.95
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.95
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.95
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.95
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.95
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.95
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.95
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.9	U	5.9	18		27.53
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	137		17.8	35.7		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 43.4 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. N-Nitrosodimethylamine was detected at a lower concentration in the re-extraction of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

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Sample Description: **SL-324-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.48	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	2.8		0.36	1.8		1

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Sample Description: **SL-324-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	3.3		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.5	J	0.72	1.8		1
10138	Pyrene	129-00-0	3.1		0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-324-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.71	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.62	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	15		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	17		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1

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Sample Description: SL-324-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,000		5.30	21.1		1
07914	Boron	7440-42-8	1.71	J	0.937	5.27		1
01650	Calcium	7440-70-2	6,580		6.46	21.1		1
01654	Iron	7439-89-6	18,200		4.96	21.1		1
01656	Lithium	7439-93-2	25.3		0.23	2.1		1
01657	Magnesium	7439-95-4	4,090		2.67	10.5		1
06958	Manganese	7439-96-5	215		0.0821	0.527		1
10145	Phosphorus	7723-14-0	343		0.590	10.5		1
01662	Potassium	7440-09-7	2,750		19.0	52.7		1
01667	Sodium	7440-23-5	925		39.3	105		1
07968	Strontium	7440-24-6	18.5		0.0653	0.527		1
06969	Tin	7440-31-5	15.8		1.05	10.5		1
06970	Titanium	7440-32-6	983		0.400	1.05		1
10146	Zirconium	7440-67-7	1.07	J	0.885	5.27		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0626	U	0.0626	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.71		0.0834	0.417		2
06126	Barium	7440-39-3	87.3		0.113	0.417		2
06127	Beryllium	7440-41-7	0.382		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0708	J	0.0417	0.104		2
06131	Chromium	7440-47-3	13.1		0.125	0.417		2
06132	Cobalt	7440-48-4	3.80		0.0209	0.104		2
06133	Copper	7440-50-8	5.68		0.0688	0.417		2
06135	Lead	7439-92-1	7.85		0.0108	0.209		2
06138	Molybdenum	7439-98-7	0.200		0.0521	0.104		2
06139	Nickel	7440-02-0	6.84		0.104	0.417		2
06141	Selenium	7782-49-2	0.106	J	0.0417	0.417		2
06142	Silver	7440-22-4	3.04		0.0125	0.104		2
06145	Thallium	7440-28-0	0.232		0.0313	0.104		2
06148	Vanadium	7440-62-2	26.0		0.0229	0.104		2
06149	Zinc	7440-66-6	54.8		0.584	3.13		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0047	J	0.0030	0.105		1

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Sample Description: **SL-324-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	457		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-324-SA5B-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110471AA	02/16/2011	16:57	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011	20:35	Sara E Johnson	27.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104623688	02/15/2011	20:35	Lois E Hiltz	n.a.

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Sample Description: **SL-324-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104623688	02/15/2011 20:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104623688	02/15/2011 20:38	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104623688	02/15/2011 20:32	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 13:25	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11049SLA026	02/26/2011 17:16	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011 03:07	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11049SLA026	02/19/2011 07:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 16:11	Marie D John	27.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104623688	02/15/2011 20:32	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 06:26	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 19:03	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:26	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 13:48	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/19/2011 01:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 20:50	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 21:49	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110470018A	02/17/2011 20:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110470018A	02/17/2011 03:00	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110465708001	02/22/2011 03:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-324-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205501
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S3248 SDG#: DE081-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110465708001	02/16/2011 06:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110461026001D	02/25/2011 10:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110461026001C	02/26/2011 23:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110461026001B	02/25/2011 10:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110461026001A	02/25/2011 10:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110465711001	02/16/2011 11:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110465708001	02/15/2011 19:44	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110461026001	02/15/2011 20:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110465711001	02/15/2011 23:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202A	03/02/2011 01:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202A	03/02/2011 01:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11054621202A	02/24/2011 07:59	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 17:19	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11048102201A	02/18/2011 12:35	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201A	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11054621202A	02/23/2011 13:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11048102201A	02/17/2011 16:00	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401A	03/02/2011 19:38	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-021411 Water**
SSFL Area IV Collocated Soil Sampling
TB-021411

LLI Sample # WW 6205502
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 08:00

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB214 SDG#: DE081-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-021411 Water**
SSFL Area IV Collocated Soil Sampling
TB-021411

LLI Sample # WW 6205502
LLI Group # 1233076
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 08:00

Submitted: 02/15/2011 09:00
Reported: 03/17/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB214 SDG#: DE081-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110482AA	02/17/2011	15:14	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110481AA	02/17/2011	14:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110481AA	02/17/2011	14:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110482AA	02/17/2011	15:14	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11048A20A	02/18/2011	13:47	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11048A20A	02/18/2011	13:47	Katrina T Longenecker	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110471AA	Sample number(s): 6205500-6205501									
Acetone	6.7	U	6.7	8.0	ug/kg	93	96	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	100	97	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	83	82	79-120	0	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	108	102	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	96	94	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	95	94	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	82	80	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	84	90	46-153	6	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93	90	72-120	4	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	89	85	75-120	4	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	84	80	75-120	5	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109	102	69-122	7	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	95	80-120	5	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	73	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	100	105	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	105	100	80-120	4	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	73	71	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	88	85	78-120	4	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	91	87	79-120	4	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	69	63	22-131	8	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84	92	58-120	9	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	101	99	77-120	3	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	93	95	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	99	99	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	93	92	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	88	86	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	90	88	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	62	59	20-120	6	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	97	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	105	103	71-129	1	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107	100	73-123	7	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101	97	80-120	4	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	99	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	93	92	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	92	92	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	97	72-123	5	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97	93	77-120	5	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	80	81	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	83	84	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	94	90	80-120	5	30
Freon 113	0.11	U	0.11	4.0	ug/kg	106	99	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	93	86	78-120	8	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	88	83	57-120	6	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	60	65	45-155	8	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	89	76-120	6	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	92	89	75-120	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90	92	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	64	67	61-134	5	30
Methylene Chloride	0.45	J	0.24	4.0	ug/kg	98	94	76-124	4	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	94	91	77-120	3	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	94	76-120	4	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	105	101	80-120	4	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	87	89	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	103	97	77-120	6	30
Toluene	0.14	J	0.08	4.0	ug/kg	99	96	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	83	82	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	76	74	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104	99	71-125	5	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	97	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	93	80-120	5	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	91	86	58-133	6	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	88	93	71-123	5	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	93	89	79-120	4	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	91	89	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	74	71	53-120	5	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	102	96	80-120	6	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	91	86	80-120	5	30
Batch number: E110481AA	Sample number(s): 6205502									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	106	80-123	4	30
Batch number: E110482AA	Sample number(s): 6205500-6205501									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	101	70-130	2	30
Batch number: Y110482AA	Sample number(s): 6205502									
Acetone	6	U	6.	20	ug/l	106	106	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	95	99	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	94	98	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	100	105	80-120	5	30
Bromodichloromethane	1	U	1.	5	ug/l	88	92	80-120	5	30
Bromoform	1	U	1.	5	ug/l	73	77	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	95	99	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	104	108	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	92	95	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	99	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	96	80-120	5	30
Carbon Tetrachloride	1	U	1.	5	ug/l	88	93	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	100	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	95	96	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	106	111	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	96	100	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	95	98	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	99	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	79	81	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	91	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	83	87	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	97	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	96	100	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	97	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	95	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	78	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	102	79-120	5	30

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	109	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	91	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	100	80-120	5	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	96	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	99	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	103	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	95	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	100	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	89	93	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	93	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	99	79-120	5	30
Freon 113	2	U	2.	10	ug/l	81	83	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	106	108	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	83	86	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	100	103	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	94	98	77-120	4	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	98	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	99	104	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	97	98	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	100	80-120	4	30
Styrene	1	U	1.	5	ug/l	90	94	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	91	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	97	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	95	99	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	95	80-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	94	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	81	83	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	96	99	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	92	97	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	90	94	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	96	100	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	95	98	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	94	97	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	95	98	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	98	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	94	99	80-120	5	30
Batch number: 11049SLA026	Sample number(s): 6205493-6205501									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	36		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	94		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	83		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	84		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	84		65-122		
Benzoic acid	170 U		170.	500	ug/kg	107		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	102		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	105		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	103		79-112		
Carbazole	17	U	17.	170	ug/kg	110		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	105		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	25		10-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	83		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	101		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	81		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	66		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	108		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	107		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	78		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	101		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	105		75-117		
Fluoranthene	17	U	17.	170	ug/kg	104		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	103		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	80		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	85		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	90		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	93		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	105		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	99		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	91		51-117		
Phenol	17	U	17.	170	ug/kg	95		58-112		
Pyrene	17	U	17.	170	ug/kg	106		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11052SLE026	Sample number(s): 6205500-6205501									
N-Nitrosodimethylamine	43.4		16.7	33.3	ng/kg	91		70-130		
Batch number: 11052SLI026	Sample number(s): 6205493-6205501									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	95		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	109		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	107		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	121		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	114		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	127		65-131		
Di-n-butylphthalate	6.2	J	6.0	18	ug/kg	115		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	106		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	120		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	113		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	7.0	J	6.0	18	ug/kg	131		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	119		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	76		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	82		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	83		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	132		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	108		56-121		
Batch number: 11048A20A	Sample number(s): 6205502									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 11048A34A	Sample number(s): 6205500-6205501									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 110530007A	Sample number(s): 6205500-6205501									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	119	119	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	119	118	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	116		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	120		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 110470025A	Sample number(s): 6205500-6205501									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	95		80-126		

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Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110530018A	Sample number(s): 6205493-6205499									
2,4-D	1.2	U	1.2	3.6	ug/kg	91		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	54		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	88		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	92		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	16		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	117		60-141		
MCPA	76	U	76.	250	ug/kg	88		34-113		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	75		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	82		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	83		48-138		
Batch number: 110470012A	Sample number(s): 6205494,6205501									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	102		85-115		
Batch number: 110520008A	Sample number(s): 6205493-6205501									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	57	70	36-106	21	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	207*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	235*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110520010A	Sample number(s): 6205493-6205499									
Aldrin	0.066	U	0.066	0.17	ug/kg	88		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	61		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	69		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	64		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	72		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	77		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	66		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	74		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	52		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	80		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	94		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	73		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	67		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	83		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	67		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	82		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110470026A	Sample number(s): 6205500-6205501									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	78		66-113		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110470017A	Sample number(s): 6205500-6205501									
Diethylene glycol	5.0	U	5.0	13	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	89		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		
Batch number: 110470030A	Sample number(s): 6205500-6205501									
Ethanol	100	U	100.	500	ug/kg	95		75-112		
Isopropanol	100	U	100.	500	ug/kg	98		75-125		
Methanol	100	U	100.	500	ug/kg	99		75-134		
Batch number: 110470018A	Sample number(s): 6205500-6205501									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	103		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	103		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
Batch number: 110461026001A	Sample number(s): 6205493-6205501									
Antimony	0.0600	U	0.0600	0.200	mg/kg	89		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	103		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	110		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	105		80-120		
Lead	0.0104	U	0.0104	0.200	mg/kg	107		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	115		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	111		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	105		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	111		78-122		
Batch number: 110461026001B	Sample number(s): 6205493-6205501									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 110461026001C	Sample number(s): 6205493-6205501									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 110461026001D	Sample number(s): 6205493-6205501									
Barium	0.108	U	0.108	0.400	mg/kg	114		79-121		
Batch number: 110465708001	Sample number(s): 6205493-6205501									
Aluminum	6.43	J	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	102		78-110		
Calcium	15.9	J	6.13	20.0	mg/kg	103		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	96		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	0.827	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	94		87-110		
Strontium	0.0810	J	0.0620	0.500	mg/kg	107		79-121		
Tin	1.36	J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110465711001	Sample number(s): 6205493-6205501								
Mercury	0.0028 U	0.0028	0.0967	mg/kg	99		88-123		
Batch number: 11048102201A	Sample number(s): 6205500-6205501								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	94		80-120		
Batch number: 11054621202A	Sample number(s): 6205493-6205498,6205500-6205501								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11055191201B	Sample number(s): 6205499								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11055243201A	Sample number(s): 6205493-6205501								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11059621202A	Sample number(s): 6205493-6205501								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	92		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11049039401A	Sample number(s): 6205493-6205501								
22a pH by 9045C					100		95-105		
Batch number: 11049182101A	Sample number(s): 6205493-6205501								
32a OR Potential					99		98-102		
Batch number: 11052162401B	Sample number(s): 6205493-6205499								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11061162401A	Sample number(s): 6205500-6205501								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E110482AA	Sample number(s): 6205500-6205501 UNSPK: P206985								
1,4-Dioxane	91	90	70-130	11	30				
Batch number: 11049SLA026	Sample number(s): 6205493-6205501 UNSPK: 6205493								
Aniline	69	69	35-95	0	30				
Benzidine	41	39	35-141	4	30				
Benzo(a)anthracene	101	93	65-122	8	30				
Benzo(a)pyrene	80	81	57-126	1	30				
Benzo(b)fluoranthene	86	79	59-125	8	30				
Benzo(g,h,i)perylene	79	80	59-127	1	30				
Benzoic acid	28	35	10-173	23	30				
Benzyl alcohol	104	89	67-115	16	30				
4-Bromophenyl-phenylether	99	88	67-129	12	30				
Butylbenzylphthalate	94	98	73-134	4	30				
Di-n-butylphthalate	93	91	67-123	2	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	100	94	64-120	6	30				
4-Chloro-3-methylphenol	108	87	76-110	22	30				
4-Chloroaniline	53	55	23-95	3	30				
bis(2-Chloroethoxy)methane	97	93	75-104	3	30				
bis(2-Chloroethyl)ether	90	85	60-116	5	30				
bis(2-Chloroisopropyl)ether	89	83	55-142	7	30				
2-Chloronaphthalene	74	71	50-141	4	30				
2-Chlorophenol	97	93	73-121	4	30				
4-Chlorophenyl-phenylether	88	91	80-109	3	30				
Chrysene	94	90	62-128	4	30				
Dibenzofuran	88	88	71-112	0	30				
1,2-Dichlorobenzene	84	79	66-108	6	30				
1,3-Dichlorobenzene	78	75	63-109	4	30				
1,4-Dichlorobenzene	80	79	70-100	1	30				
3,3'-Dichlorobenzidine	72	75	16-119	3	30				
2,4-Dichlorophenol	105	99	78-117	6	30				
2,4-Dimethylphenol	104	98	78-110	6	30				
3,5-Dimethylphenol	112	103	70-130	9	30				
4,6-Dinitro-2-methylphenol	62	65	24-116	5	30				
2,4-Dinitrophenol	32	40	20-143	23	30				
2,4-Dinitrotoluene	87	88	73-113	2	30				
2,6-Dinitrotoluene	94	92	69-123	3	30				
1,2-Diphenylhydrazine	100	94	71-129	6	30				
bis(2-Ethylhexyl)phthalate	107	98	63-122	9	30				
Fluoranthene	97	91	73-112	6	30				
Hexachlorobenzene	103	95	77-114	8	30				
Hexachlorobutadiene	92	79	62-120	15	30				
Hexachlorocyclopentadiene	78	68	10-153	14	30				
Hexachloroethane	82	77	57-109	6	30				
Indeno(1,2,3-cd)pyrene	85	83	61-126	2	30				
Isophorone	99	91	73-102	7	30				
2-Methylphenol	103	91	75-111	12	30				
4-Methylphenol	92	89	71-111	4	30				
2-Nitroaniline	91	92	67-125	1	30				
3-Nitroaniline	91	88	59-122	4	30				
4-Nitroaniline	69	66	52-112	5	30				
Nitrobenzene	95	87	72-106	10	30				
2-Nitrophenol	97	94	74-115	3	30				
4-Nitrophenol	80	72	54-113	10	30				
N-Nitroso-di-n-propylamine	93	77	60-116	18	30				
N-Nitrosodiphenylamine	101	93	86-145	8	30				
Di-n-octylphthalate	95	89	56-126	7	30				
Pentachlorophenol	72	78	28-127	8	30				
Phenol	98	90	58-126	9	30				
Pyrene	106	97	74-126	9	30				
1,2,4-Trichlorobenzene	91	90	72-115	1	30				
2,4,5-Trichlorophenol	85	90	78-109	5	30				
2,4,6-Trichlorophenol	97	91	77-115	6	30				
Batch number: 11052SLE026	Sample number(s): 6205500-6205501 UNSPK: P206985								
N-Nitrosodimethylamine	93	97	70-130	3	30				
Batch number: 11052SLI026	Sample number(s): 6205493-6205501 UNSPK: P206985								

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Quality Control Summary

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Reported: 03/17/11 at 01:25 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	94	93	63-105	1	30				
Acenaphthylene	90	91	67-114	1	30				
Anthracene	94	97	60-122	3	30				
Benzo(a)anthracene	101	105	59-128	4	30				
Benzo(a)pyrene	102	103	45-138	1	30				
Benzo(b)fluoranthene	108	112	43-155	4	30				
Benzo(g,h,i)perylene	101	93	33-141	8	30				
Benzo(k)fluoranthene	114	102	42-144	11	30				
Butylbenzylphthalate	131	123	57-173	7	30				
Di-n-butylphthalate	123	122	65-148	1	30				
Chrysene	106	107	48-134	1	30				
Dibenz(a,h)anthracene	119	107	22-133	11	30				
Diethylphthalate	109	108	70-136	1	30				
Dimethylphthalate	103	102	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	130	142	39-167	9	30				
Fluoranthene	109	101	26-166	8	30				
Fluorene	96	96	66-122	0	30				
Indeno(1,2,3-cd)pyrene	114	99	21-143	14	30				
1-Methylnaphthalene	90	88	72-123	2	30				
2-Methylnaphthalene	81	80	64-103	1	30				
Naphthalene	89	89	61-102	1	30				
N-Nitrosodimethylamine	94	86	48-113	8	30				
Di-n-octylphthalate	155	121	40-192	25	30				
Phenanthrene	98	95	12-165	3	30				
Pyrene	101	100	15-153	0	30				
Batch number: 11048A34A	Sample number(s): 6205500-6205501 UNSPK: P206985								
9a TPH by EPA 8015B Gas C5-C12	78	67	39-118	7	30				
Batch number: 110530007A	Sample number(s): 6205500-6205501 UNSPK: P206985								
4-Amino-2,6-Dinitrotoluene	98	96	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	96	95	80-137	1	50				
1,3-Dinitrobenzene	99	97	38-166	2	50				
2,4-Dinitrotoluene	95	93	80-131	1	50				
2,6-Dinitrotoluene	98	94	80-127	4	50				
HMX	81	82	63-128	1	50				
Nitrobenzene	97	98	80-125	1	50				
Nitroglycerin	91	89	80-120	2	50				
2-Nitrotoluene	97	95	80-122	2	50				
3-Nitrotoluene	95	92	72-119	3	50				
4-Nitrotoluene	94	91	80-125	4	50				
PETN	98	97	80-121	1	50				
RDX	79	79	75-129	0	50				
Tetryl	80	76	55-174	5	50				
1,3,5-Trinitrobenzene	93	92	82-126	1	50				
2,4,6-Trinitrotoluene	99	97	82-130	2	50				
Batch number: 110470025A	Sample number(s): 6205500-6205501 UNSPK: P206985								
17a Formaldehyde by 8315A	90	97	80-120	6	50				
Batch number: 110530018A	Sample number(s): 6205493-6205499 UNSPK: 6205493								
2,4-D	94	85	28-161	10	35				
Dalapon	62	56	12-86	9	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-DB	92	85	20-170	7	50				
Dicamba	89	60	33-120	39	50				
Dinoseb	17	16	1-44	7	35				
2,4-DP (Dichlorprop)	130	122	55-141	7	50				
MCPA	96	99	31-184	3	50				
MCPP (Mecoprop)	104	105	16-174	1	50				
2,4,5-T	93	105	25-132	12	35				
2,4,5-TP	78	78	10-183	0	35				
Batch number: 110470012A	Sample number(s): 6205494,6205501 UNSPK: P206985								
6a Perchlorate EPA 6850	107	107	80-120	0	20				
Batch number: 110520008A	Sample number(s): 6205493-6205501 UNSPK: P206985								
PCB-1016	86	81	29-146	6	50				
PCB-1260	102	91	39-149	11	50				
Batch number: 110520010A	Sample number(s): 6205493-6205499 UNSPK: 6205494								
Aldrin	70	79	16-126	12	50				
Alpha BHC	58	64	10-129	10	50				
Beta BHC	50	59	14-147	17	50				
Gamma BHC - Lindane	58	52	10-140	11	50				
p,p-DDD	64	64	16-163	0	50				
p,p-DDE	118	137	18-161	14	50				
p,p-DDT	208*	215*	10-176	4	50				
Delta BHC	56	53	23-140	6	50				
Dieldrin	67	67	19-154	0	50				
Endosulfan I	18	0*	16-137	200*	50				
Endosulfan II	63	48	28-154	28	50				
Endosulfan Sulfate	68	68	21-160	0	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	52	65	10-148	23	35				
Endrin Ketone	47	52	22-165	9	50				
Heptachlor	52	52	13-126	0	50				
Heptachlor Epoxide	82	0*	13-157	200*	50				
Methoxychlor	43	67	32-147	44	50				
Batch number: 110470026A	Sample number(s): 6205500-6205501 UNSPK: P206985								
EFH (C12-C14)	85	89	49-123	5	20				
EFH (C15-C20)	290*	449*	49-123	43*	20				
EFH (C21-C30)	1321*	2098*	49-123	43*	20				
EFH (C30 - C40)	1212*	1816*	49-123	36*	20				
EFH (C8-C11)	75	77	49-123	3	20				
Batch number: 110470017A	Sample number(s): 6205500-6205501 UNSPK: P206985								
Diethylene glycol	82	82	59-109	0	20				
Ethylene glycol	80	81	63-107	0	20				
Propylene glycol	86	87	63-107	1	20				
Batch number: 110470030A	Sample number(s): 6205500-6205501 UNSPK: P206985								
Ethanol	86	85	24-143	0	20				
Isopropanol	88	88	75-125	0	20				
Methanol	89	88	45-136	1	20				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110470018A	Sample number(s): 6205500-6205501 UNSPK: 6205500								
m-Terphenyl	105	102	75-125	2	20				
o-Terphenyl	107	104	75-125	3	20				
p-Terphenyl	91	90	75-125	1	20				
Batch number: 110461026001A	Sample number(s): 6205493-6205501 UNSPK: 6205493 BKG: 6205493								
Antimony	74*	66*	75-125	9	20	0.109 J	0.115 J	5 (1)	20
Arsenic	85	95	75-125	4	20	3.75	4.43	17	20
Beryllium	120	115	75-125	3	20	0.152	0.179	16 (1)	20
Cadmium	129*	136*	75-125	6	20	0.0849 J	0.122	36* (1)	20
Chromium	117	116	75-125	0	20	13.7	19.0	32*	20
Cobalt	117	112	75-125	4	20	2.68	2.93	9	20
Copper	113	110	75-125	1	20	3.22	4.00	22*	20
Lead	127*	127*	75-125	1	20	1.67	2.11	23*	20
Nickel	119	110	75-125	4	20	7.82	8.53	9	20
Silver	129*	125	75-125	2	20	0.0118 U	0.0117 U	0 (1)	20
Thallium	129*	129*	75-125	1	20	0.0601 J	0.0504 J	17 (1)	20
Vanadium	110	110	75-125	1	20	15.7	21.8	32*	20
Zinc	113	117	75-125	2	20	11.5	14.3	22* (1)	20
Batch number: 110461026001B	Sample number(s): 6205493-6205501 UNSPK: 6205493 BKG: 6205493								
Selenium	119	111	75-125	6	20	0.150 J	0.138 J	8 (1)	20
Batch number: 110461026001C	Sample number(s): 6205493-6205501 UNSPK: 6205493 BKG: 6205493								
Molybdenum	101	101	75-125	1	20	0.617	0.553	11	20
Batch number: 110461026001D	Sample number(s): 6205493-6205501 UNSPK: 6205493 BKG: 6205493								
Barium	101	110	75-125	3	20	20.1	26.5	28*	20
Batch number: 110465708001	Sample number(s): 6205493-6205501 UNSPK: 6205493 BKG: 6205493								
Aluminum	829 (2)	891 (2)	75-125	2	20	2,690	2,600	3	20
Boron	107	108	84-115	1	20	1.45 J	1.87 J	25* (1)	20
Calcium	141 (2)	732 (2)	75-125	21*	20	9,350	31,700	109*	20
Iron	126 (2)	198 (2)	75-125	1	20	4,410	4,150	6	20
Lithium	105	105	82-114	2	20	3.2	3.0	5 (1)	20
Magnesium	140*	143*	75-125	0	20	779	886	13	20
Manganese	96	89	75-125	4	20	83.5	98.1	16	20
Phosphorus	1 (2)	-24 (2)	75-125	6	20	440	684	43*	20
Potassium	120	120	75-125	2	20	440	418	5	20
Sodium	100	105	75-125	3	20	55.0 J	161	98* (1)	20
Strontium	106	109	75-115	1	20	17.9	49.8	94*	20
Tin	98	97	80-110	3	20	1.70 J	1.63 J	5 (1)	20
Titanium	182*	201*	75-125	4	20	167	155	8	20
Zirconium	101	100	75-125	3	20	2.41 J	2.52 J	4 (1)	20
Batch number: 110465711001	Sample number(s): 6205493-6205501 UNSPK: 6205493 BKG: 6205493								
Mercury	104	100	65-135	6	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11048102201A	Sample number(s): 6205500-6205501 UNSPK: P203543 BKG: P203543								
21a Cyanide by 9012B	89		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11054621202A	Sample number(s): 6205493-6205498,6205500-6205501 UNSPK: 6205493 BKG: 6205493								
7a Perchlorate EPA 314.0	111		80-120			9.0 U	9.0 U	0 (1)	15

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11055191201B	Sample number(s): 6205499 UNSPK: P206985 BKG: P206985										
7a Perchlorate EPA 314.0	74*		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11055243201A	Sample number(s): 6205493-6205501 UNSPK: P206985 BKG: P206985										
3a Cr VI by EPA 7199	92		75-125			0.39	J	0.39	J	0 (1)	20
Batch number: 11059621202A	Sample number(s): 6205493-6205501 UNSPK: 6205493 BKG: 6205493										
11a Anions by 300.0 - Fluoride	98		80-120			0.80	U	0.80	U	0 (1)	20
11a Anions by 300.0 - Nitrate	114		80-120			0.80	U	1.1	J	200* (1)	20
Batch number: 11049039401A	Sample number(s): 6205493-6205501 BKG: 6205493										
22a pH by 9045C						8.24		8.24		0	1
Batch number: 11049182101A	Sample number(s): 6205493-6205501 BKG: 6205493										
32a OR Potential						401		402		0	6
Batch number: 11052162401B	Sample number(s): 6205493-6205499 BKG: P203555										
28a Moisture Content by 160.3						5.8		5.8		1	20
Batch number: 11061162401A	Sample number(s): 6205500-6205501 BKG: 6205501										
28a Moisture Content by 160.3						6.9		6.9		0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6205500	118	117	98	91
6205501	115	111	95	87
Blank	115	108	97	86
LCS	106	105	106	106
LCSD	105	108	106	105
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110481AA

	Toluene-d8
6205502	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Surrogate Quality Control

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110482AA

	Toluene-d8
6205500	95
6205501	95
Blank	96
LCS	95
LCSD	95
MS	95
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6205502	101	102	105	100
Blank	102	103	105	99
LCS	103	105	106	100
LCSD	103	103	105	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11049SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6205493	83	84	99	84	85	90
6205494	77	86	74	98	83	75
6205495	88	91	84	88	80	84
6205496	101	101	80	88	86	94
6205497	82	85	76	78	81	82
6205498	95	99	77	96	80	94
6205499	83	89	91	85	97	98
6205500	88	88	92	99	89	96
6205501	79	84	90	82	87	84
Blank	77	86	96	84	90	94
LCS	94	94	102	89	90	92
MS	97	91	89	87	87	91
MSD	88	86	87	85	77	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11052SLE026

	N-Nitrosodimethylamine-d6
6205500	96
6205501	62
Blank	73
LCS	89
MS	90
MSD	92

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11052SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6205493	92	87	103
6205494	91	85	97
6205495	102	90	107
6205496	94	85	96
6205497	91	84	97
6205498	96	88	106
6205499	92	86	100
6205500	94	86	102
6205501	95	88	108
Blank	95	80	100
LCS	101	85	98
MS	98	89	99
MSD	94	86	100
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11048A20A

	Trifluorotoluene-F
6205502	88
Blank	87
LCS	117
LCSD	113
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11048A34A

	Trifluorotoluene-F
6205500	79
6205501	77
Blank	80
LCS	87
MS	81
MSD	82
Limits:	61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110470025A

	Butyraldehyde
6205500	89
6205501	95
Blank	104
LCS	93
MS	87
MSD	95

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Surrogate Quality Control

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110520008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6205493	126	110
6205494	428*	576*
6205495	100	87
6205496	95	75
6205497	110	99
6205498	109	96
6205499	94	88
6205500	98	90
6205501	103	99
Blank	81	83
LCS	227*	216*
LCSD	88	98
MS	95	92
MSD	85	84
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 110520010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6205493	62	87
6205494	63	100
6205495	42*	34
6205496	49*	45
6205497	69	47
6205498	66	60
6205499	44*	50
Blank	1*	0*
LCS	1*	0*
MS	2*	43
MSD	1*	36
Limits:	50-130	20-120

Analysis Name: 20a Energetics by 8330A
Batch number: 110530007A

	2-Nitro-m-xylene
6205500	115
6205501	105
Blank	116
LCS	130
LCSD	125
MS	104
MSD	108
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Surrogate Quality Control

Batch number: 110530018A

	2,4-Dichlorophenylacetic acid
6205493	86
6205494	156
6205495	73
6205496	70
6205497	68
6205498	64
6205499	72
Blank	98
LCS	111
MS	108
MSD	101
Limits:	36-156

Analysis Name: 27a Glycols by 8015B
Batch number: 110470017A

	Tetramethylene glycol
6205500	85
6205501	80
Blank	87
LCS	95
MS	95
MSD	97
Limits:	29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110470018A

	n-Triacontane-d62
6205500	122
6205501	114
Blank	110
LCS	111
MS	126
MSD	117
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110470026A

	Chlorobenzene	Orthoterphenyl
6205500	83	95
6205501	77	89
Blank	73	94
LCS	78	95
MS	76	92
MSD	78	97
Limits:	37-125	47-145

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233076
Reported: 03/17/11 at 01:25 PM

Surrogate Quality Control

Analysis Name: 25a Alcohols by 8015B
Batch number: 110470030A

	Acetone
6205500	87
6205501	87
Blank	97
LCS	98
MS	87
MSD	85
Limits:	42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1233076 6205493-502

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/SB7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-049-SA5B-SS-0.0-0.5	2.11.2011	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-049-SA5B-SS-0.0-0.5	2.11.2011	0850	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-138-SA5B-SS-0.0-0.5	2.11.2011	0958	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X														
SL-138-SA5B-SS-0.0-0.5	2.11.2011	0958	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-141-SA5B-SS-0.0-0.5	2.11.2011	1411	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-141-SA5B-SS-0.0-0.5	2.11.2011	1411	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-144-SA5B-SS-0.0-0.5	2.11.2011	1044	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-144-SA5B-SS-0.0-0.5	2.11.2011	1044	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-253-SA5B-SS-0.0-0.5	2.11.2011	1355	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-253-SA5B-SS-0.0-0.5	2.11.2011	1355	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-254-SA5B-SS-0.0-0.5	2.11.2011	1332	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-254-SA5B-SS-0.0-0.5	2.11.2011	1332	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-289-SA5B-SS-0.0-0.5	2.11.2011	0923	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X														
SL-289-SA5B-SS-0.0-0.5	2.11.2011	0923	SOIL	NONE	1-6-inch sleeve			X	X																				
SL-324-SA5B-SB-4.0-5.0	2.14.2011	1444	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-324-SA5B-SB-4.5	2.14.2011	1444	SOIL	NONE	5-Encores											X	X	X											
SL-324-SA5B-SB-8.0-9.0	2.14.2011	1452	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-324-SA5B-SB-9.5	2.14.2011	1452	SOIL	NONE	5-Encores											X	X	X											
TB-001411	2.14.2011	0800	WATER	HCl	4-40 ml VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 02/14/2011 / 17:00

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) 2/15/11 900

Airbill No.(s): 8695 1432 2990

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/15/2011
Group Number: 1233077
SDG: DX050
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-049-SA5B-SS-0.0-0.5 Soil	6205503
SL-138-SA5B-SS-0.0-0.5 Soil	6205504
SL-141-SA5B-SS-0.0-0.5 Soil	6205505
SL-144-SA5B-SS-0.0-0.5 Soil	6205506
SL-253-SA5B-SS-0.0-0.5 Soil	6205507
SL-254-SA5B-SS-0.0-0.5 Soil	6205508
SL-289-SA5B-SS-0.0-0.5 Soil	6205509
SL-324-SA5B-SB-4.0-5.0 Soil	6205510
SL-324-SA5B-SB-8.0-9.0 Soil	6205511

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205503
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX050-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205503
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX050-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0142 JQ	0.0120	1.03	1
11031	12378-PeCDD	40321-76-4	0.0228 JQ	0.0118	5.14	1
11031	123478-HxCDD	39227-28-6	0.0201 JBQ	0.0138	5.14	1
11031	123678-HxCDD	57653-85-7	0.0346 JBQ	0.0137	5.14	1
11031	123789-HxCDD	19408-74-3	0.0338 JQ	0.0114	5.14	1
11031	1234678-HpCDD	35822-46-9	0.537 JB	0.0262	5.14	1
11031	OCDD	3268-87-9	5.15 JB	0.0274	10.3	1
11031	2378-TCDF	51207-31-9	0.0176 JBQ	0.0116	1.03	1
11031	12378-PeCDF	57117-41-6	0.0103 JBQ	0.00637	5.14	1
11031	23478-PeCDF	57117-31-4	0.0563 JBQ	0.00668	5.14	1
11031	123478-HxCDF	70648-26-9	0.0348 JB	0.0116	5.14	1
11031	123678-HxCDF	57117-44-9	0.0245 JBQ	0.00894	5.14	1
11031	123789-HxCDF	72918-21-9	0.0357 JBQ	0.00802	5.14	1
11031	234678-HxCDF	60851-34-5	0.0206 JBQ	0.00689	5.14	1
11031	1234678-HpCDF	67562-39-4	0.118 JB	0.00894	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0281 JBQ	0.0102	5.14	1
11031	OCDF	39001-02-0	0.241 JBQ	0.0195	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	58	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205503
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX050-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5B-SS-0.0-0.5

LLI Sample # SW 6205503
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 08:50

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX050-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 02:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205504
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD138 SDG#: DX050-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205504
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD138 SDG#: DX050-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.866 J	0.0998	1.10	1
11031	12378-PeCDD	40321-76-4	5.41 J	0.259	5.51	1
11031	123478-HxCDD	39227-28-6	9.64	0.292	5.51	1
11031	123678-HxCDD	57653-85-7	68.1 B	0.295	5.51	1
11031	123789-HxCDD	19408-74-3	25.9	0.284	5.51	1
11031	1234678-HpCDD	35822-46-9	3,050 EB	0.457	5.51	1
11031	OCDD	3268-87-9	50,100 EB	0.654	11.0	1
11031	2378-TCDF	51207-31-9	0.949 J	0.295	1.10	1
11031	12378-PeCDF	57117-41-6	0.110 U	0.110	5.51	1
11031	23478-PeCDF	57117-31-4	5.38 JB	0.104	5.51	1
11031	123478-HxCDF	70648-26-9	6.29 B	0.219	5.51	1
11031	123678-HxCDF	57117-44-9	6.58 B	0.197	5.51	1
11031	123789-HxCDF	72918-21-9	1.66 JB	0.196	5.51	1
11031	234678-HxCDF	60851-34-5	10.6 B	0.174	5.51	1
11031	1234678-HpCDF	67562-39-4	170 B	0.242	5.51	1
11031	1234789-HpCDF	55673-89-7	15.8 B	0.263	5.51	1
11031	OCDF	39001-02-0	577 B	0.137	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	33	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	54	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205504
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD138 SDG#: DX050-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5B-SS-0.0-0.5

LLI Sample # SW 6205504
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:58

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD138 SDG#: DX050-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/09/2011 21:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205505
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD141 SDG#: DX050-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-141-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205505
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD141 SDG#: DX050-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0422	JQ	0.0276	1.07	1
11031	12378-PeCDD	40321-76-4	0.337	JQ	0.0403	5.37	1
11031	123478-HxCDD	39227-28-6	0.467	J	0.0661	5.37	1
11031	123678-HxCDD	57653-85-7	1.26	JB	0.0676	5.37	1
11031	123789-HxCDD	19408-74-3	1.30	J	0.0686	5.37	1
11031	1234678-HpCDD	35822-46-9	25.2	B	0.0798	5.37	1
11031	OCDD	3268-87-9	237	B	0.0710	10.7	1
11031	2378-TCDF	51207-31-9	0.0533	J	0.0315	1.07	1
11031	12378-PeCDF	57117-41-6	0.130	JBQ	0.0235	5.37	1
11031	23478-PeCDF	57117-31-4	0.226	JB	0.0222	5.37	1
11031	123478-HxCDF	70648-26-9	0.198	JB	0.0421	5.37	1
11031	123678-HxCDF	57117-44-9	0.200	JB	0.0402	5.37	1
11031	123789-HxCDF	72918-21-9	0.364	JB	0.0470	5.37	1
11031	234678-HxCDF	60851-34-5	0.232	JB	0.0395	5.37	1
11031	1234678-HpCDF	67562-39-4	3.76	JB	0.0424	5.37	1
11031	1234789-HpCDF	55673-89-7	0.283	JB	0.0524	5.37	1
11031	OCDF	39001-02-0	9.11	JB	0.0621	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205505
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD141 SDG#: DX050-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA5B-SS-0.0-0.5

LLI Sample # SW 6205505
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 14:11

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD141 SDG#: DX050-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/09/2011 22:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205506
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD144 SDG#: DX050-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205506
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD144 SDG#: DX050-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.276 JQ	0.0366	1.10	1
11031	12378-PeCDD	40321-76-4	9.15	0.197	5.50	1
11031	123478-HxCDD	39227-28-6	11.8 B	0.421	5.50	1
11031	123678-HxCDD	57653-85-7	49.9 B	0.379	5.50	1
11031	123789-HxCDD	19408-74-3	30.9	0.268	5.50	1
11031	1234678-HpCDD	35822-46-9	1,710 B	0.421	5.50	1
11031	OCDD	3268-87-9	13,200 EB	0.456	11.0	1
11031	2378-TCDF	51207-31-9	0.263 U	0.263	1.10	1
11031	12378-PeCDF	57117-41-6	0.0851 U	0.0851	5.50	1
11031	23478-PeCDF	57117-31-4	4.94 JB	0.0930	5.50	1
11031	123478-HxCDF	70648-26-9	0.495 U	0.495	5.50	1
11031	123678-HxCDF	57117-44-9	8.01 B	0.375	5.50	1
11031	123789-HxCDF	72918-21-9	1.61 JB	0.154	5.50	1
11031	234678-HxCDF	60851-34-5	5.79 B	0.144	5.50	1
11031	1234678-HpCDF	67562-39-4	100 B	0.313	5.50	1
11031	1234789-HpCDF	55673-89-7	8.31 B	0.163	5.50	1
11031	OCDF	39001-02-0	275 B	0.0865	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	48	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	35	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	30	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205506
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD144 SDG#: DX050-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5B-SS-0.0-0.5

LLI Sample # SW 6205506
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 10:44

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD144 SDG#: DX050-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 04:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: **SL-253-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205507
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX050-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-253-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205507
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX050-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0705	JQ	0.0118	1.06	1
11031	12378-PeCDD	40321-76-4	0.312	J	0.0248	5.31	1
11031	123478-HxCDD	39227-28-6	0.266	JBQ	0.0606	5.31	1
11031	123678-HxCDD	57653-85-7	1.02	JB	0.0530	5.31	1
11031	123789-HxCDD	19408-74-3	1.09	J	0.0387	5.31	1
11031	1234678-HpCDD	35822-46-9	21.1	B	0.0810	5.31	1
11031	OCDD	3268-87-9	301	B	0.0596	10.6	1
11031	2378-TCDF	51207-31-9	0.0832	JBQ	0.0136	1.06	1
11031	12378-PeCDF	57117-41-6	0.211	JB	0.0101	5.31	1
11031	23478-PeCDF	57117-31-4	0.164	JB	0.0110	5.31	1
11031	123478-HxCDF	70648-26-9	0.170	JBQ	0.0573	5.31	1
11031	123678-HxCDF	57117-44-9	0.156	JBQ	0.0410	5.31	1
11031	123789-HxCDF	72918-21-9	0.678	JB	0.0225	5.31	1
11031	234678-HxCDF	60851-34-5	0.0982	JBQ	0.0199	5.31	1
11031	1234678-HpCDF	67562-39-4	1.55	JBQ	0.0737	5.31	1
11031	1234789-HpCDF	55673-89-7	0.218	JBQ	0.0452	5.31	1
11031	OCDF	39001-02-0	4.08	JB	0.0438	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	49	32 - 141
13C12-123678-HxCDD	57	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	39	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	33	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-253-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205507
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX050-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-253-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-253-SA5B-SS-0.0-0.5

LLI Sample # SW 6205507
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:55

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD253 SDG#: DX050-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 05:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: **SL-254-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205508
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX050-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	3.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-254-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205508
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX050-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0316	JQ	0.0104	1.04	1
11031	12378-PeCDD	40321-76-4	0.220	J	0.0186	5.19	1
11031	123478-HxCDD	39227-28-6	0.230	JBQ	0.0633	5.19	1
11031	123678-HxCDD	57653-85-7	1.35	JB	0.0575	5.19	1
11031	123789-HxCDD	19408-74-3	1.15	J	0.0380	5.19	1
11031	1234678-HpCDD	35822-46-9	49.2	B	0.0864	5.19	1
11031	OCDD	3268-87-9	883	B	0.0829	10.4	1
11031	2378-TCDF	51207-31-9	0.101	JBQ	0.0187	1.04	1
11031	12378-PeCDF	57117-41-6	0.137	JB	0.00883	5.19	1
11031	23478-PeCDF	57117-31-4	0.211	JBQ	0.0101	5.19	1
11031	123478-HxCDF	70648-26-9	0.315	JB	0.0710	5.19	1
11031	123678-HxCDF	57117-44-9	0.216	JB	0.0499	5.19	1
11031	123789-HxCDF	72918-21-9	0.499	JB	0.0235	5.19	1
11031	234678-HxCDF	60851-34-5	0.165	JB	0.0219	5.19	1
11031	1234678-HpCDF	67562-39-4	1.89	JB	0.0774	5.19	1
11031	1234789-HpCDF	55673-89-7	0.194	JB	0.0447	5.19	1
11031	OCDF	39001-02-0	4.00	JB	0.0469	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	55	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	107	24 - 169
13C12-12378-PeCDF	112	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	99	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	37	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-254-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205508
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX050-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-254-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-254-SA5B-SS-0.0-0.5

LLI Sample # SW 6205508
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 13:32

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD254 SDG#: DX050-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 06:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-289-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205509
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD289 SDG#: DX050-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-289-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205509
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD289 SDG#: DX050-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0605	J	0.0123	1.06	1
11031	12378-PeCDD	40321-76-4	0.406	J	0.0332	5.29	1
11031	123478-HxCDD	39227-28-6	0.761	JBQ	0.109	5.29	1
11031	123678-HxCDD	57653-85-7	2.58	JB	0.0961	5.29	1
11031	123789-HxCDD	19408-74-3	1.41	J	0.0789	5.29	1
11031	1234678-HpCDD	35822-46-9	87.9	B	0.0928	5.29	1
11031	OCDD	3268-87-9	1,180	B	0.131	10.6	1
11031	2378-TCDF	51207-31-9	0.138	JB	0.0293	1.06	1
11031	12378-PeCDF	57117-41-6	0.250	JB	0.0192	5.29	1
11031	23478-PeCDF	57117-31-4	0.574	JB	0.0198	5.29	1
11031	123478-HxCDF	70648-26-9	1.29	JBQ	0.0975	5.29	1
11031	123678-HxCDF	57117-44-9	0.971	JB	0.0756	5.29	1
11031	123789-HxCDF	72918-21-9	0.444	JB	0.0448	5.29	1
11031	234678-HxCDF	60851-34-5	0.766	JB	0.0397	5.29	1
11031	1234678-HpCDF	67562-39-4	13.7	B	0.0891	5.29	1
11031	1234789-HpCDF	55673-89-7	1.04	JB	0.0595	5.29	1
11031	OCDF	39001-02-0	36.2	B	0.0643	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	98	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	38	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-289-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205509
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD289 SDG#: DX050-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-289-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-289-SA5B-SS-0.0-0.5

LLI Sample # SW 6205509
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/11/2011 09:23

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD289 SDG#: DX050-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 07:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11052162401B	02/21/2011 12:01	William C Schwebel	1

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Analysis Report

Sample Description: **SL-324-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205510
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3244 SDG#: DX050-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-324-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205510
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3244 SDG#: DX050-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0103	U	0.0103	1.08	1
11031	12378-PeCDD	40321-76-4	0.0919	JQ	0.0219	5.38	1
11031	123478-HxCDD	39227-28-6	0.0822	U	0.0822	5.38	1
11031	123678-HxCDD	57653-85-7	2.85	JB	0.0718	5.38	1
11031	123789-HxCDD	19408-74-3	3.01	J	0.0553	5.38	1
11031	1234678-HpCDD	35822-46-9	32.9	B	0.0984	5.38	1
11031	OCDD	3268-87-9	468	B	0.0849	10.8	1
11031	2378-TCDF	51207-31-9	0.0610	JBQ	0.0251	1.08	1
11031	12378-PeCDF	57117-41-6	0.0750	JB	0.0156	5.38	1
11031	23478-PeCDF	57117-31-4	0.240	JB	0.0163	5.38	1
11031	123478-HxCDF	70648-26-9	0.376	JB	0.0654	5.38	1
11031	123678-HxCDF	57117-44-9	1.12	JB	0.0465	5.38	1
11031	123789-HxCDF	72918-21-9	0.215	JB	0.0254	5.38	1
11031	234678-HxCDF	60851-34-5	0.165	JB	0.0226	5.38	1
11031	1234678-HpCDF	67562-39-4	4.32	JB	0.0948	5.38	1
11031	1234789-HpCDF	55673-89-7	0.418	JB	0.0593	5.38	1
11031	OCDF	39001-02-0	14.3	B	0.0451	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	55	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	35	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-324-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205510
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3244 SDG#: DX050-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-324-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-4.0-5.0

LLI Sample # SW 6205510
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:44

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3244 SDG#: DX050-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 08:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401A	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-324-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205511
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3248 SDG#: DX050-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-324-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205511
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3248 SDG#: DX050-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.00977	U	0.00977	1.07	1
11031	12378-PeCDD	40321-76-4	0.0376	JQ	0.0173	5.37	1
11031	123478-HxCDD	39227-28-6	0.175	JBQ	0.0715	5.37	1
11031	123678-HxCDD	57653-85-7	2.88	JB	0.0759	5.37	1
11031	123789-HxCDD	19408-74-3	1.65	J	0.0710	5.37	1
11031	1234678-HpCDD	35822-46-9	123	B	0.122	5.37	1
11031	OCDD	3268-87-9	1,640	B	0.121	10.7	1
11031	2378-TCDF	51207-31-9	0.0112	U	0.0112	1.07	1
11031	12378-PeCDF	57117-41-6	0.00881	U	0.00881	5.37	1
11031	23478-PeCDF	57117-31-4	0.136	JBQ	0.00881	5.37	1
11031	123478-HxCDF	70648-26-9	0.357	JBQ	0.0380	5.37	1
11031	123678-HxCDF	57117-44-9	0.896	JB	0.0319	5.37	1
11031	123789-HxCDF	72918-21-9	0.182	JBQ	0.0382	5.37	1
11031	234678-HxCDF	60851-34-5	0.247	JB	0.0328	5.37	1
11031	1234678-HpCDF	67562-39-4	13.3	B	0.0608	5.37	1
11031	1234789-HpCDF	55673-89-7	0.806	JB	0.0867	5.37	1
11031	OCDF	39001-02-0	68.9	B	0.0577	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-324-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205511
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3248 SDG#: DX050-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-324-SA5B-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-324-SA5B-SB-8.0-9.0

LLI Sample # SW 6205511
LLI Group # 1233077
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/14/2011 14:52

Submitted: 02/15/2011 09:00
Reported: 03/16/2011 22:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D3248 SDG#: DX050-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 09:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401A	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233077
Reported: 03/16/11 at 10:35 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11052162401B	Sample number(s): 6205503-6205509								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11061162401A	Sample number(s): 6205510-6205511								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11052001	Sample number(s): 6205503,6205506-6205511								
2378-TCDD	0.0111 U	0.0111	1.00	ng/kg	112		67-158		
12378-PeCDD	0.00790 U	0.00790	5.00	ng/kg	114		70-142		
123478-HxCDD	0.00913 J	0.00870	5.00	ng/kg	112		70-164		
123678-HxCDD	0.0152 J	0.00900	5.00	ng/kg	109		76-134		
123789-HxCDD	0.00860 U	0.00860	5.00	ng/kg	109		64-162		
1234678-HpCDD	0.154 J	0.0103	5.00	ng/kg	106		70-140		
OCDD	0.286 J	0.0148	10.0	ng/kg	104		78-144		
2378-TCDF	0.0160 J	0.00720	1.00	ng/kg	123		75-158		
12378-PeCDF	0.0225 J	0.00500	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0499 J	0.00500	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0339 J	0.00560	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0145 J	0.00470	5.00	ng/kg	108		84-130		
123789-HxCDF	0.0329 J	0.00550	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0128 J	0.00470	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.0408 J	0.00500	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0129 J	0.00720	5.00	ng/kg	104		78-138		
OCDF	0.0988 J	0.0122	10.0	ng/kg	103		63-170		
Batch number: 11066001	Sample number(s): 6205504-6205505								
2378-TCDD	0.0229 U	0.0229	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0216 U	0.0216	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0166 U	0.0166	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0262 J	0.0173	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0165 U	0.0165	5.00	ng/kg	104		64-162		
1234678-HpCDD	0.120 J	0.0211	5.00	ng/kg	102		70-140		
OCDD	0.362 J	0.0245	10.0	ng/kg	102		78-144		
2378-TCDF	0.0235 U	0.0235	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0237 J	0.0132	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0628 J	0.0145	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0168 J	0.0112	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0321 J	0.00960	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0403 J	0.0117	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0395 J	0.0103	5.00	ng/kg	105		70-156		
1234678-HpCDF	0.0665 J	0.00770	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0298 J	0.0128	5.00	ng/kg	103		78-138		
OCDF	0.191 J	0.0330	10.0	ng/kg	104		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233077
Reported: 03/16/11 at 10:35 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11052162401B	Sample number(s): 6205503-6205509					BKG: P203555			
28a Moisture Content by 160.3						5.8	5.8	1	20
Batch number: 11061162401A	Sample number(s): 6205510-6205511					BKG: P205501			
28a Moisture Content by 160.3						6.9	6.9	0	20
Batch number: 11052001	Sample number(s): 6205503,6205506-6205511 UNSPK: P206996								
2378-TCDD	108	107	67-158	1	25				
12378-PeCDD	110	109	70-142	1	25				
123478-HxCDD	106	107	70-164	1	25				
123678-HxCDD	107	107	76-134	0	25				
123789-HxCDD	107	106	64-162	0	25				
1234678-HpCDD	106	105	70-140	1	25				
OCDD	113	103	78-144	9	25				
2378-TCDF	116	116	75-158	0	25				
12378-PeCDF	106	105	80-134	0	25				
23478-PeCDF	106	108	68-160	1	25				
123478-HxCDF	104	106	72-134	1	25				
123678-HxCDF	105	104	84-130	1	25				
123789-HxCDF	104	103	78-130	0	25				
234678-HxCDF	106	104	70-156	2	25				
1234678-HpCDF	105	101	82-122	3	25				
1234789-HpCDF	102	102	78-138	0	25				
OCDF	104	103	63-170	1	25				
Batch number: 11066001	Sample number(s): 6205504-6205505 UNSPK: P217822								
2378-TCDD	98	97	67-158	1	25				
12378-PeCDD	101	104	70-142	4	25				
123478-HxCDD	100	100	70-164	0	25				
123678-HxCDD	102	103	76-134	1	25				
123789-HxCDD	101	101	64-162	0	25				
1234678-HpCDD	101	102	70-140	0	25				
OCDD	130	114	78-144	9	25				
2378-TCDF	105	104	75-158	1	25				
12378-PeCDF	101	102	80-134	0	25				
23478-PeCDF	101	102	68-160	0	25				
123478-HxCDF	102	102	72-134	1	25				
123678-HxCDF	100	104	84-130	3	25				
123789-HxCDF	101	103	78-130	2	25				
234678-HxCDF	102	106	70-156	4	25				
1234678-HpCDF	101	103	82-122	2	25				
1234789-HpCDF	101	103	78-138	3	25				
OCDF	93	94	63-170	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233077
Reported: 03/16/11 at 10:35 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11052001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6205503	59	72	43	55	73	68
6205506	81	79	27	35	89	87
6205507	77	77	30	39	85	81
6205508	93	93	30	41	99	96
6205509	83	86	38	49	92	89
6205510	83	85	30	41	88	83
6205511	77	85	72	83	83	77
Blank	76	97	80	94	91	88
MS	84	97	47	60	89	84
MSD	73	82	66	79	79	76
OPR	73	91	68	81	85	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6205503	54	57	45	79	67	57
6205506	30	65	42	83	74	48
6205507	33	64	43	81	76	49
6205508	37	73	48	91	92	55
6205509	38	67	45	93	82	58
6205510	35	67	47	88	83	55
6205511	75	60	47	90	79	78
Blank	96	76	66	102	90	84
MS	62	72	60	101	92	75
MSD	77	61	49	91	77	75
OPR	84	71	62	91	82	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6205503	58	66	58	50	67	80
6205506	56	77	58	46	94	90
6205507	57	76	58	49	89	91
6205508	63	90	69	59	107	112
6205509	68	80	63	48	98	95
6205510	64	79	66	55	93	95
6205511	76	76	64	51	87	91
Blank	85	84	81	72	85	105
MS	78	83	76	67	92	103
MSD	74	74	65	55	81	89
OPR	79	78	76	68	81	96
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11066001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233077
Reported: 03/16/11 at 10:35 PM

Surrogate Quality Control

6205504	82	81	65	72	80	75
6205505	83	89	83	87	83	78
Blank	73	74	66	77	68	67
MS	80	83	78	88	79	68
MSD	77	80	75	81	77	72
OPR	82	84	59	77	77	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6205504	54	50	31	89	83	76
6205505	76	68	49	95	95	87
Blank	84	58	53	87	84	78
MS	80	57	41	95	90	84
MSD	76	63	49	84	80	82
OPR	75	65	57	90	88	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6205504	76	78	58	33	83	84
6205505	86	85	72	53	84	94
Blank	77	77	72	66	68	89
MS	83	81	68	53	77	95
MSD	80	78	68	56	75	87
OPR	81	81	74	68	78	95
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1233077 6205503-11

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hexchrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-049-SA5B-SS-0.0-0.5	2.11.2011	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-049-SA5B-SS-0.0-0.5	2.11.2011	0850	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-138-SA5B-SS-0.0-0.5	2.11.2011	0958	SOIL	NONE	1-16 oz. jar	X	X			X	X	X	X	X	X													
SL-138-SA5B-SS-0.0-0.5	2.11.2011	0958	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-141-SA5B-SS-0.0-0.5	2.11.2011	1411	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-141-SA5B-SS-0.0-0.5	2.11.2011	1411	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-144-SA5B-SS-0.0-0.5	2.11.2011	1044	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-144-SA5B-SS-0.0-0.5	2.11.2011	1044	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-253-SA5B-SS-0.0-0.5	2.11.2011	1355	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-253-SA5B-SS-0.0-0.5	2.11.2011	1355	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-254-SA5B-SS-0.0-0.5	2.11.2011	1332	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-254-SA5B-SS-0.0-0.5	2.11.2011	1332	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-289-SA5B-SS-0.0-0.5	2.11.2011	0923	SOIL	NONE	1-16 oz. jar	X	X			X	X	X		X	X													
SL-289-SA5B-SS-0.0-0.5	2.11.2011	0923	SOIL	NONE	1-6-inch sleeve			X	X																			
SL-324-SA5B-SB-4.0-5.0	2.14.2011	1444	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	
SL-324-SA5B-SB-4.5	2.14.2011	1444	SOIL	NONE	5-Encores											X	X	X										
SL-324-SA5B-SB-8.0-9.0	2.14.2011	1452	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	
SL-324-SA5B-SB-8.5	2.14.2011	1452	SOIL	NONE	5-Encores											X	X	X										
TB-021411	2.14.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	02/14/2011 / 17:00	2/15/11 900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 2990	No. of coolers = 1

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/16/2011
Group Number: 1233313
SDG: DE082
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP23-SA5B-QC-021511 Soil	6206980
EB30-SA5B-021511 Water	6206981
SL-323-SA5B-SB-11.0-12.0 Soil	6206982
SL-323-SA5B-SB-4.0-5.0 Soil	6206983
SL-327-SA5B-SB-4.0-5.0 Soil	6206984
SL-329-SA5B-SB-4.0-5.0 Soil	6206985
SL-329-SA5B-SB-4.0-5.0MS Soil	6206986
SL-329-SA5B-SB-4.0-5.0MSD Soil	6206987
SL-329-SA5B-SB-4.0-5.0DUP Soil	6206988
SL-330-SA5B-SB-4.0-5.0 Soil	6206989
TB-021511 Water	6206990

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Erik J. Frederiksen
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP23-SA5B-QC-021511 Soil
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.9
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.9
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.9
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.9
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.9
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.9
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.9
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.9
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.9
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.9
06192	Methylene Chloride	75-09-2	0.56	J	0.23	3.9		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP23-SA5B-QC-021511 Soil
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.9
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.9
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.73
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	180	U	180	360		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.75	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.9	J	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.67	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1

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Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.7	J	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1

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Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	4.6	J	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	53		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	100		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1

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Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.43	21.6		1
07914	Boron	7440-42-8	0.961	U	0.961	5.40		1
01650	Calcium	7440-70-2	2,200		6.62	21.6		1
01654	Iron	7439-89-6	17,900		5.09	21.6		1
01656	Lithium	7439-93-2	22.0		0.24	2.2		1
01657	Magnesium	7439-95-4	3,090		2.74	10.8		1
06958	Manganese	7439-96-5	311		0.0842	0.540		1
10145	Phosphorus	7723-14-0	363		0.605	10.8		1
01662	Potassium	7440-09-7	3,110		19.4	54.0		1
01667	Sodium	7440-23-5	134		40.3	108		1
07968	Strontium	7440-24-6	16.9		0.0669	0.540		1
06969	Tin	7440-31-5	2.65	J	1.08	10.8		1
06970	Titanium	7440-32-6	994		0.410	1.08		1
10146	Zirconium	7440-67-7	1.51	J	0.907	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.834		0.0629	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.97		0.0839	0.419		2
06126	Barium	7440-39-3	135		0.113	0.419		2
06127	Beryllium	7440-41-7	0.614		0.0168	0.105		2
06128	Cadmium	7440-43-9	2.28		0.0419	0.105		2
06131	Chromium	7440-47-3	16.5		0.126	0.419		2
06132	Cobalt	7440-48-4	5.60		0.0210	0.105		2
06133	Copper	7440-50-8	8.71		0.0692	0.419		2
06135	Lead	7439-92-1	35.4		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.467		0.0524	0.105		2
06139	Nickel	7440-02-0	11.5		0.105	0.419		2
06141	Selenium	7782-49-2	0.148	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0605	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.317		0.0315	0.105		2
06148	Vanadium	7440-62-2	35.2		0.0231	0.105		2
06149	Zinc	7440-66-6	298		1.47	7.86		5

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Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0049	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.5		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	429		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 16:39	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 20:56	Sara E Johnson	22.73

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Sample Description: DUP23-SA5B-QC-021511 Soil
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:29	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104723699	02/16/2011 20:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104723699	02/16/2011 19:26	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 13:41	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 18:56	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011 08:45	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 16:48	Marie D John	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:25	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 07:09	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 19:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 14:06	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/22/2011 13:39	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 21:35	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 22:41	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 03:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 01:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 01:22	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 01:22	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 01:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 01:22	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP23-SA5B-QC-021511 Soil
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206980
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE082-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 00:48	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110471026001C	03/01/2011 09:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	03/01/2011 09:59	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202B	03/02/2011 02:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202B	03/02/2011 02:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 20:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 17:31	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 08:49	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.9	J	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	7.79		0.519	1.04		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 4.03 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	63		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1

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Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.15	J	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.66	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.19	J	0.050	1.0		1

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Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.20	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.019	J	0.010	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.19	J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate .16 ug/l
butylbenzylphthalate .13 ug/l
bis(2-ethylhexyl)phthalate .18 ug/l
di-n-octylphthalate .18 ug/l
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1

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Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

The LCS and/or LCSD recovery for nitrobenzene, 2,4-Diamino-6nitrotoluene and 2,6-Diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts, except 1,3-dinitrobenzene was detected at 0.91 ug/l in the reextraction.

HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	17b Formaldehyde by 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.10	U	0.10	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C15-C20)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C21-C30)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C30 - C40)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C8-C11)	n.a.	0.099	U	0.099	0.59		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.085	U	0.085	0.26		1
10319	o-Terphenyl	84-15-1	0.085	U	0.085	0.26		1
10319	p-Terphenyl	92-94-4	0.085	U	0.085	0.26		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0204		0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000050	U	0.000050	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	21b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	22b pH by 9040B	n.a.	5.6		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110482AA	02/17/2011	15:35	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110481AA	02/17/2011	14:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110481AA	02/17/2011	14:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110482AA	02/17/2011	15:35	Nicholas R Rossi	1
10962	19b NDMA by 1625C	EPA 1625C	1	11052WAB026	02/28/2011	10:53	Timothy J Trees	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11049WAB026	03/01/2011	14:19	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11049WAA026	02/20/2011	18:35	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11049WAB026	02/19/2011	06:30	Kelli M Barto	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11049WAA026	02/19/2011	06:30	Kelli M Barto	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11052WAB026	02/21/2011	12:55	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11049A20A	02/20/2011	19:15	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11049A20A	02/20/2011	19:15	Marie D John	1
10131	20b Energetics by 8330A	SW-846 8330A	1	110500016A	02/23/2011	13:05	James H Place	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	110480018A	02/18/2011	18:25	James H Place	1

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Sample Description: EB30-SA5B-021511 Water
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110480037A	03/04/2011 00:32	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	110480037A	02/18/2011 07:00	Joseph S Feister	1
01013	Formaldehyde Extraction	SW-846 8315A	1	110480018A	02/18/2011 08:25	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	110500016A	02/21/2011 12:30	Kerrie A Freeburn	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110500004A	02/22/2011 11:09	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	110480031A	02/18/2011 05:52	Tyler O Griffin	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	110530017A	02/22/2011 21:20	Dustin A Underkoffler	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	110520017A	02/24/2011 18:01	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	110500004A	02/20/2011 16:20	Timothy J Attenberger	1
10304	Terphenyls water prep	SW-846 3510C	1	110520017A	02/21/2011 16:00	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	110471848002	02/21/2011 03:47	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	110471848002	02/17/2011 06:26	Tara L Snyder	1
06024	Antimony	SW-846 6020	3	110626050001A	03/04/2011 12:00	David K Beck	1
06025	Arsenic	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06026	Barium	SW-846 6020	2	110476050002D	02/17/2011 19:06	David K Beck	1
06027	Beryllium	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06028	Cadmium	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06031	Chromium	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06032	Cobalt	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06033	Copper	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06035	Lead	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06038	Molybdenum	SW-846 6020	2	110476050002C	02/17/2011 19:06	David K Beck	1
06039	Nickel	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06041	Selenium	SW-846 6020	2	110476050002B	02/17/2011 19:06	David K Beck	1
06042	Silver	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06045	Thallium	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06048	Vanadium	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
06049	Zinc	SW-846 6020	2	110476050002A	02/17/2011 19:06	David K Beck	1
00259	Mercury	SW-846 7470A	1	110485713002	02/17/2011 19:34	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110471848002	02/16/2011 20:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110476050002	02/16/2011 20:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	110626050001	03/03/2011 19:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110485713002	02/17/2011 15:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206981
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE082-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11047196902C	02/16/2011 15:12	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11047196902C	02/16/2011 15:12	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11059199401A	03/01/2011 12:03	Carrie E Miller	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11047196401B	02/16/2011 10:34	James S Mathiot	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	11054117101B	02/24/2011 08:46	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11054117101B	02/23/2011 16:10	Carolyn M Mastropietro	1
00200	22b pH by 9040B	SW-846 9040B	1	11048020002A	02/17/2011 21:00	Luz M Groff	1

Sample Description: SL-323-SA5B-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.98
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.98
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.98
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.98
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.5		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.98
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.98
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.98
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.98
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.98
06192	Ethylbenzene	100-41-4	0.17	J	0.07	4.4		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.98
06192	Freon 133a	75-88-7	0.54	U	0.54	5.5		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		0.98
06192	Methylene Chloride	75-09-2	3.2	J	0.26	4.4		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.98

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-323-SA5B-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.98
06192	Toluene	108-88-3	0.10	J	0.09	4.4		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.98
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.98
06192	m+p-Xylene	179601-23-1	0.54	J	0.19	4.4		0.98
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.98
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		24.65
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	92.2	U	92.2	184		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-323-SA5B-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.63	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-323-SA5B-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.71
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1

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Sample Description: SL-323-SA5B-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.3		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.3		2
10225	Aroclor 5460	11126-42-4	7.5		2.2	7.3		2
10225	PCB-1016	12674-11-2	0.73	U	0.73	3.8		2
10225	PCB-1221	11104-28-2	0.73	U	0.73	3.8		2
10225	PCB-1232	11141-16-5	0.73	U	0.73	3.8		2
10225	PCB-1242	53469-21-9	0.73	U	0.73	3.8		2
10225	PCB-1248	12672-29-6	0.73	U	0.73	3.8		2
10225	PCB-1254	11097-69-1	60		0.73	3.8		2
10225	PCB-1260	11096-82-5	0.87	U	0.87	3.8		2
10225	PCB-1262	37324-23-5	0.73	U	0.73	3.8		2
10225	PCB-1268	11100-14-4	0.73	U	0.73	3.8		2

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	3.1		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	2.6		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1

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Sample Description: SL-323-SA5B-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,200		5.42	21.6		1
07914	Boron	7440-42-8	0.959	U	0.959	5.39		1
01650	Calcium	7440-70-2	4,930		6.61	21.6		1
01654	Iron	7439-89-6	19,000		5.08	21.6		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	3,310		2.74	10.8		1
06958	Manganese	7439-96-5	233		0.0840	0.539		1
10145	Phosphorus	7723-14-0	380		0.603	10.8		1
01662	Potassium	7440-09-7	3,080		19.4	53.9		1
01667	Sodium	7440-23-5	686		40.2	108		1
07968	Strontium	7440-24-6	21.4		0.0668	0.539		1
06969	Tin	7440-31-5	3.26	J	1.08	10.8		1
06970	Titanium	7440-32-6	975		0.409	1.08		1
10146	Zirconium	7440-67-7	1.48	J	0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	11.8		0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.6		0.0862	0.431		2
06126	Barium	7440-39-3	137		0.116	0.431		2
06127	Beryllium	7440-41-7	0.773		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.874		0.0431	0.108		2
06131	Chromium	7440-47-3	31.1		0.129	0.431		2
06132	Cobalt	7440-48-4	7.84		0.0216	0.108		2
06133	Copper	7440-50-8	19.6		0.0711	0.431		2
06135	Lead	7439-92-1	549		0.112	2.16		20
06138	Molybdenum	7439-98-7	1.52		0.0539	0.108		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-323-SA5B-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	21.1		0.108	0.431		2
06141	Selenium	7782-49-2	0.181	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.180		0.0129	0.108		2
06145	Thallium	7440-28-0	0.392		0.0323	0.108		2
06148	Vanadium	7440-62-2	46.5		0.0237	0.108		2
06149	Zinc	7440-66-6	133		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0203	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	372		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	9.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-323-SA5B-SB-11.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-323-SA5B-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 17:01	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 21:15	Sara E Johnson	24.65
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:34	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104723699	02/16/2011 20:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104723699	02/16/2011 19:32	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 13:58	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 19:21	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011 10:03	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 17:24	Marie D John	26.71
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:31	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 07:51	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 19:22	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:32	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/08/2011 17:42	Richard A Shober	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/18/2011 23:00	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 21:49	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 22:59	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 04:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 01:25	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 01:25	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 01:25	Tara L Snyder	1

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Sample Description: **SL-323-SA5B-SB-11.0-12.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 01:25	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 01:25	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 00:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	03/01/2011 12:10	Choon Y Tian	20
06138	Molybdenum	SW-846 6020	1	110471026001C	02/26/2011 22:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	03/01/2011 09:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202B	03/02/2011 02:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202B	03/02/2011 02:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 20:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11055243201A	02/25/2011 17:50	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 08:51	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-323-SA5B-SB-11.0-12.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206982
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE082-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-323-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.1		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.87
06192	Methylene Chloride	75-09-2	0.96	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-323-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.97
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	142		19.3	38.5		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 43.4 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. N-Nitrosodimethylamine was not detected in the re-extraction of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1

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Sample Description: **SL-323-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1

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Sample Description: **SL-323-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	1.2	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	3.2		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	2.5		0.78	1.9		1
10138	Pyrene	129-00-0	2.8		0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1

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Sample Description: SL-323-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.9		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	30		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	110		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1

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Sample Description: SL-323-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		5.74	22.8		1
07914	Boron	7440-42-8	1.02	U	1.02	5.71		1
01650	Calcium	7440-70-2	4,520		7.00	22.8		1
01654	Iron	7439-89-6	28,900		5.38	22.8		1
01656	Lithium	7439-93-2	22.6		0.25	2.3		1
01657	Magnesium	7439-95-4	5,170		2.90	11.4		1
06958	Manganese	7439-96-5	473		0.0890	0.571		1
10145	Phosphorus	7723-14-0	220		0.639	11.4		1
01662	Potassium	7440-09-7	2,990		20.5	57.1		1
01667	Sodium	7440-23-5	2,820		42.6	114		1
07968	Strontium	7440-24-6	40.0		0.0708	0.571		1
06969	Tin	7440-31-5	3.09	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,270		0.434	1.14		1
10146	Zirconium	7440-67-7	3.65	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.234		0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.89		0.0904	0.452		2
06126	Barium	7440-39-3	183		0.122	0.452		2
06127	Beryllium	7440-41-7	1.05		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.218		0.0452	0.113		2
06131	Chromium	7440-47-3	41.9		0.136	0.452		2
06132	Cobalt	7440-48-4	12.3		0.0226	0.113		2
06133	Copper	7440-50-8	17.4		0.0746	0.452		2
06135	Lead	7439-92-1	13.3		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.444		0.0565	0.113		2
06139	Nickel	7440-02-0	23.7		0.113	0.452		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-323-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06141	Selenium	7782-49-2	0.140	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0446	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.476		0.0339	0.113		2
06148	Vanadium	7440-62-2	78.3		0.0249	0.113		2
06149	Zinc	7440-66-6	96.0		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0116	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	14.3		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	18.4		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	453		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-323-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-323-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 17:24	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 21:35	Sara E Johnson	20.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:11	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104723699	02/16/2011 20:11	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104723699	02/16/2011 19:37	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 14:15	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 19:46	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011 10:36	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 18:01	Marie D John	20.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:36	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 08:33	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 19:41	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 14:43	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/22/2011 14:04	Heather E Williams	5
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 22:04	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 23:16	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 09:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 01:29	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 01:29	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 01:29	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 01:29	Tara L Snyder	1

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Sample Description: **SL-323-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206983
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE082-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 01:29	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 01:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110471026001C	03/01/2011 09:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	02/26/2011 22:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202B	03/02/2011 03:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202B	03/02/2011 03:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 21:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 17:56	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:21	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-327-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.9
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.9
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.9
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.9
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.9
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.9
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.9
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.9
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.9
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.9
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.9
06192	Methylene Chloride	75-09-2	0.58	J	0.23	3.9		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.9

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-327-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.9
06192	Toluene	108-88-3	0.09	J	0.08	3.9		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.9
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.9
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	180	U	180	360		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

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Sample Description: **SL-327-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	3.6		0.36	1.8		1
10138	Anthracene	120-12-7	4.5		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	8.0		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.8		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.4		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	17		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1

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Sample Description: **SL-327-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	37		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.96	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	2.6		0.72	1.8		1
10138	Pyrene	129-00-0	57		0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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Sample Description: SL-327-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	2.4		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.54	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.87	U	0.87	2.6		2
10199	EFH (C15-C20)	n.a.	0.87	U	0.87	2.6		2
10199	EFH (C21-C30)	n.a.	16		0.87	2.6		2
10199	EFH (C30 - C40)	n.a.	54		0.87	2.6		2
10199	EFH (C8-C11)	n.a.	0.87	U	0.87	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-327-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.35	21.3		1
07914	Boron	7440-42-8	0.947	U	0.947	5.32		1
01650	Calcium	7440-70-2	2,120		6.53	21.3		1
01654	Iron	7439-89-6	19,100		5.01	21.3		1
01656	Lithium	7439-93-2	23.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,960		2.70	10.6		1
06958	Manganese	7439-96-5	224		0.0830	0.532		1
10145	Phosphorus	7723-14-0	311		0.596	10.6		1
01662	Potassium	7440-09-7	2,980		19.2	53.2		1
01667	Sodium	7440-23-5	1,310		39.7	106		1
07968	Strontium	7440-24-6	14.2		0.0660	0.532		1
06969	Tin	7440-31-5	2.76	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,050		0.405	1.06		1
10146	Zirconium	7440-67-7	1.06	J	0.894	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.211		0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.96		0.0843	0.422		2
06126	Barium	7440-39-3	113		0.114	0.422		2
06127	Beryllium	7440-41-7	0.657		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.189		0.0422	0.105		2
06131	Chromium	7440-47-3	19.4		0.126	0.422		2
06132	Cobalt	7440-48-4	6.31		0.0211	0.105		2
06133	Copper	7440-50-8	10.1		0.0696	0.422		2
06135	Lead	7439-92-1	7.55		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.448		0.0527	0.105		2
06139	Nickel	7440-02-0	11.4		0.105	0.422		2
06141	Selenium	7782-49-2	0.136	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0565	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.369		0.0316	0.105		2
06148	Vanadium	7440-62-2	42.1		0.0232	0.105		2
06149	Zinc	7440-66-6	96.0		0.590	3.16		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-327-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	8.3		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-327-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 17:47	Chelsea B Eastep	0.9

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Sample Description: **SL-327-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 21:54	Sara E Johnson	20.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:45	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:11	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104723699	02/16/2011 20:11	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104723699	02/16/2011 19:43	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 14:32	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 20:11	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011 11:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 18:37	Marie D John	24.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:41	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 10:41	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 19:51	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 15:02	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/22/2011 14:28	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 22:19	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 23:33	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 09:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 01:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 01:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 01:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 01:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 01:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1

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Sample Description: SL-327-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206984
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE082-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 01:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110471026001C	03/01/2011 09:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	02/26/2011 22:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202B	03/02/2011 03:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202B	03/02/2011 03:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 21:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 18:09	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:22	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182101A	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401A	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-329-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.93
06192	Ethylbenzene	100-41-4	0.09	J	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.93
06192	Methylene Chloride	75-09-2	0.67	J	0.24	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-329-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.93
06192	Toluene	108-88-3	0.10	J	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.30	J	0.17	4.1		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.93

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		26.6

GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	160		18.2	36.4		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 43.4 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. N-Nitrosodimethylamine was detected at a lower concentration in the re-extraction of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-329-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1

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Sample Description: SL-329-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.76
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-329-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	1,300	U	1,300	3,300		1
	Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.4		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	4.7		0.44	1.3		1

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Sample Description: SL-329-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.49	21.8		1
07914	Boron	7440-42-8	0.971	U	0.971	5.45		1
01650	Calcium	7440-70-2	1,990		6.68	21.8		1
01654	Iron	7439-89-6	17,300		5.14	21.8		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	2,960		2.77	10.9		1
06958	Manganese	7439-96-5	152		0.0851	0.545		1
10145	Phosphorus	7723-14-0	354		0.611	10.9		1
01662	Potassium	7440-09-7	3,050		19.6	54.5		1
01667	Sodium	7440-23-5	153		40.7	109		1
07968	Strontium	7440-24-6	14.5		0.0676	0.545		1
06969	Tin	7440-31-5	14.3		1.09	10.9		1
06970	Titanium	7440-32-6	930		0.414	1.09		1
10146	Zirconium	7440-67-7	1.44	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.16		0.0864	0.432		2
06126	Barium	7440-39-3	119		0.117	0.432		2
06127	Beryllium	7440-41-7	0.676		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.150		0.0432	0.108		2

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Sample Description: SL-329-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	17.4	0.130	0.432		2
06132	Cobalt	7440-48-4	6.79	0.0216	0.108		2
06133	Copper	7440-50-8	9.11	0.0713	0.432		2
06135	Lead	7439-92-1	7.94	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.451	0.0540	0.108		2
06139	Nickel	7440-02-0	12.8	0.108	0.432		2
06141	Selenium	7782-49-2	0.120 J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0345 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.367	0.0324	0.108		2
06148	Vanadium	7440-62-2	34.9	0.0238	0.108		2
06149	Zinc	7440-66-6	76.3	0.605	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	8.3	0.87	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	535	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-329-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-329-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 18:09	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 23:34	Sara E Johnson	26.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:11	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104723699	02/16/2011 20:11	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104723699	02/16/2011 19:48	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 12:00	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 17:41	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/24/2011 21:16	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 19:13	Marie D John	20.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:47	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 11:23	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 20:00	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:38	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 15:20	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/18/2011 23:50	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 23:03	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 23:51	Robert L Garrett	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 05:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1

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Sample Description: **SL-329-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 00:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 00:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 00:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 00:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 00:54	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 00:25	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	03/01/2011 09:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110471026001C	03/01/2011 09:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	02/26/2011 22:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202B	03/02/2011 01:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202B	03/02/2011 01:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 22:11	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 18:09	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:24	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 07:05	William L Hamaker Jr	1

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Sample Description: **SL-329-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206985
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-329-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	8.1	9.7		1.11
06192	Benzene	71-43-2	24	0.12	4.8		1.11
06192	Bromobenzene	108-86-1	20	0.16	4.8		1.11
06192	Bromochloromethane	74-97-5	25	0.40	4.8		1.11
06192	Bromodichloromethane	75-27-4	23	0.1	4.8		1.11
06192	Bromoform	75-25-2	21	0.48	4.8		1.11
06192	Bromomethane	74-83-9	20	0.30	4.8		1.11
06192	2-Butanone	78-93-3	130	1.5	9.7		1.11
06192	n-Butylbenzene	104-51-8	20	0.15	4.8		1.11
06192	sec-Butylbenzene	135-98-8	19	0.07	4.8		1.11
06192	tert-Butylbenzene	98-06-6	18	0.19	4.8		1.11
06192	Carbon Tetrachloride	56-23-5	27	0.17	4.8		1.11
06192	Chlorobenzene	108-90-7	23	0.13	4.8		1.11
06192	Chloroethane	75-00-3	18	0.16	4.8		1.11
06192	2-Chloroethyl Vinyl Ether	110-75-8	24	0.36	4.8		1.11
06192	Chloroform	67-66-3	25	0.15	4.8		1.11
06192	Chloromethane	74-87-3	20	0.40	4.8		1.11
06192	2-Chlorotoluene	95-49-8	20	0.17	4.8		1.11
06192	4-Chlorotoluene	106-43-4	20	0.17	4.8		1.11
06192	Chlorotrifluoroethene	79-38-9	14	0.49	4.9		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.85	4.8		1.11
06192	Dibromochloromethane	124-48-1	24	0.24	4.8		1.11
06192	1,2-Dibromoethane	106-93-4	22	0.21	4.8		1.11
06192	Dibromomethane	74-95-3	23	0.29	4.8		1.11
06192	1,2-Dichlorobenzene	95-50-1	20	0.11	4.8		1.11
06192	1,3-Dichlorobenzene	541-73-1	20	0.15	4.8		1.11
06192	1,4-Dichlorobenzene	106-46-7	20	0.19	4.8		1.11
06192	Dichlorodifluoromethane	75-71-8	18	0.15	4.8		1.11
06192	1,1-Dichloroethane	75-34-3	24	0.12	4.8		1.11
06192	1,2-Dichloroethane	107-06-2	25	0.18	4.8		1.11
06192	1,1-Dichloroethene	75-35-4	26	0.47	4.8		1.11
06192	cis-1,2-Dichloroethene	156-59-2	24	0.23	4.8		1.11
06192	trans-1,2-Dichloroethene	156-60-5	25	0.15	4.8		1.11
06192	1,2-Dichloropropane	78-87-5	22	0.21	4.8		1.11
06192	1,3-Dichloropropane	142-28-9	22	0.1	4.8		1.11
06192	2,2-Dichloropropane	594-20-7	25	0.21	4.8		1.11
06192	1,1-Dichloropropene	563-58-6	23	0.16	4.8		1.11
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.19	4.8		1.11
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.21	4.8		1.11
06192	Ethylbenzene	100-41-4	21	0.07	4.8		1.11
06192	Freon 113	76-13-1	26	0.13	4.8		1.11
06192	Freon 133a	75-88-7	18	0.49	4.9		0.9
06192	Hexachlorobutadiene	87-68-3	16	0.17	4.8		1.11
06192	2-Hexanone	591-78-6	63	1.9	9.7		1.11
06192	Isopropylbenzene	98-82-8	20	0.07	4.8		1.11
06192	p-Isopropyltoluene	99-87-6	20	0.13	4.8		1.11
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.25	4.8		1.11
06192	4-Methyl-2-pentanone	108-10-1	64	0.47	9.7		1.11
06192	Methylene Chloride	75-09-2	24	0.29	4.8		1.11
06192	n-Propylbenzene	103-65-1	22	0.09	4.8		1.11

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Sample Description: SL-329-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	21		0.12	4.8		1.11
06192	1,1,1,2-Tetrachloroethane	630-20-6	24		0.13	4.8		1.11
06192	1,1,2,2-Tetrachloroethane	79-34-5	19		0.28	4.8		1.11
06192	Tetrachloroethene	127-18-4	23		0.24	4.8		1.11
06192	Toluene	108-88-3	23		0.1	4.8		1.11
06192	1,2,3-Trichlorobenzene	87-61-6	13		0.17	4.8		1.11
06192	1,2,4-Trichlorobenzene	120-82-1	12		0.22	4.8		1.11
06192	1,1,1-Trichloroethane	71-55-6	25		0.24	4.8		1.11
06192	1,1,2-Trichloroethane	79-00-5	23		0.33	4.8		1.11
06192	Trichloroethene	79-01-6	24		0.18	4.8		1.11
06192	Trichlorofluoromethane	75-69-4	25		0.35	4.8		1.11
06192	1,2,3-Trichloropropane	96-18-4	21		0.40	4.8		1.11
06192	1,2,4-Trimethylbenzene	95-63-6	21		0.48	4.8		1.11
06192	1,3,5-Trimethylbenzene	108-67-8	21		0.12	4.8		1.11
06192	Vinyl Chloride	75-01-4	20		0.24	4.8		1.11
06192	m+p-Xylene	179601-23-1	46		0.21	4.8		1.11
06192	o-Xylene	95-47-6	20		0.21	4.8		1.11

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	130		5.5	16		25.2
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	1,000		18.2	36.4		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 43.4 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. N-Nitrosodimethylamine was detected at a lower concentration in the re-extraction of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,300		180	550		1
04688	Anthracene	120-12-7	1,900		18	180		1
04688	Benzidine	92-87-5	3,000	J	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	2,000		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180		1
04688	Benzoic acid	65-85-0	1,700		180	550		1
04688	Benzyl alcohol	100-51-6	1,900		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1

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Sample Description: SL-329-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Butylbenzylphthalate	85-68-7	2,100	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180		1
04688	Carbazole	86-74-8	1,900	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	36	180		1
04688	4-Chloroaniline	106-47-8	1,100	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,800	18	180		1
04688	2-Chlorophenol	95-57-8	1,900	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	36	180		1
04688	Chrysene	218-01-9	1,600	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	18	180		1
04688	Dibenzofuran	132-64-9	1,800	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,800	18	180		1
04688	Diethylphthalate	84-66-2	1,700	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,900	36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000	36	180		1
04688	Dimethylphthalate	131-11-3	1,500	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,000	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	18	360		1
04688	Fluoranthene	206-44-0	1,800	18	180		1
04688	Fluorene	86-73-7	1,700	18	180		1
04688	Hexachlorobenzene	118-74-1	1,900	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,600	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,800	180	550		1
04688	Hexachloroethane	67-72-1	1,700	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	18	180		1
04688	Isophorone	78-59-1	1,800	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,700	36	180		1
04688	4-Methylphenol	106-44-5	1,700	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	18	180		1
04688	2-Nitroaniline	88-74-4	1,900	18	180		1
04688	3-Nitroaniline	99-09-2	1,900	36	180		1
04688	4-Nitroaniline	100-01-6	1,100	73	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,900	18	180		1

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Sample Description: SL-329-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Nitrophenol	100-02-7	1,600	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	18	180		1
04688	Pentachlorophenol	87-86-5	1,700	180	550		1
04688	Phenanthrene	85-01-8	1,900	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	2,000	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	36	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 20 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.73	1.8		1
10138	Acenaphthylene	208-96-8	33	0.36	1.8		1
10138	Anthracene	120-12-7	34	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	37	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	37	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	39	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	37	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	42	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	48	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	45	6.5	20		1
10138	Chrysene	218-01-9	39	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	43	0.73	1.8		1
10138	Diethylphthalate	84-66-2	40	6.5	20		1
10138	Dimethylphthalate	131-11-3	37	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47	6.5	20		1
10138	Fluoranthene	206-44-0	40	0.73	1.8		1
10138	Fluorene	86-73-7	35	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	41	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	33	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	29	0.73	1.8		1
10138	Naphthalene	91-20-3	32	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	34	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	56	6.5	20		1
10138	Phenanthrene	85-01-8	36	0.73	1.8		1
10138	Pyrene	129-00-0	37	0.73	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 6.2 ug/kg bis(2-ethylhexyl)phthalate 7 ug/kg These blank values were not subtracted from the analytical results.						

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Sample Description: SL-329-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.3		0.2	1		22.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,100		65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,100		44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,200		44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,100		44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,100		44	130	10000000	1
10132	HMX	2691-41-0	1,800		110	330	10000000	1
10132	Nitrobenzene	98-95-3	2,100		44	130	10000000	1
10132	Nitroglycerin	55-63-0	47,000		870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	2,100		87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,100		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,000		87	130	10000000	1
10132	PETN	78-11-5	51,000		870	2,600	10000000	1
10132	RDX	121-82-4	1,700		55	130	10000000	1
10132	Tetryl	479-45-8	1,700		67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	9,900		1,300	3,300		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	120		2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
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E8206 SDG#: DE082-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	18		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.77	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	4.0		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	33		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	38		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.69	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		110	550		1
10501	Isopropanol	67-63-0	2,400		110	550		1
10501	Methanol	67-56-1	2,400		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	190		5.5	14		1
08283	Ethylene glycol	107-21-1	180		5.5	14		1
08283	Propylene glycol	57-55-6	180		5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.4	3.8		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.4	J	1.3	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.43	21.6		1
07914	Boron	7440-42-8	216		0.961	5.40		1
01650	Calcium	7440-70-2	2,440		6.62	21.6		1

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Sample Description: SL-329-SA5B-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	mg/kg	
01654	Iron	7439-89-6	17,500	5.09	21.6		1
01656	Lithium	7439-93-2	129	0.24	2.2		1
01657	Magnesium	7439-95-4	3,280	2.74	10.8		1
06958	Manganese	7439-96-5	227	0.0842	0.540		1
10145	Phosphorus	7723-14-0	460	0.605	10.8		1
01662	Potassium	7440-09-7	4,480	19.4	54.0		1
01667	Sodium	7440-23-5	1,210	40.3	108		1
07968	Strontium	7440-24-6	120	0.0669	0.540		1
06969	Tin	7440-31-5	418	1.08	10.8		1
06970	Titanium	7440-32-6	1,200	0.410	1.08		1
10146	Zirconium	7440-67-7	110	0.907	5.40		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.652	0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.71	0.0855	0.428		2
06126	Barium	7440-39-3	141	0.115	0.428		2
06127	Beryllium	7440-41-7	1.85	0.0171	0.107		2
06128	Cadmium	7440-43-9	1.75	0.0428	0.107		2
06131	Chromium	7440-47-3	36.0	0.128	0.428		2
06132	Cobalt	7440-48-4	88.8	0.0214	0.107		2
06133	Copper	7440-50-8	25.7	0.0706	0.428		2
06135	Lead	7439-92-1	13.8	0.0111	0.214		2
06138	Molybdenum	7439-98-7	15.8	0.0535	0.107		2
06139	Nickel	7440-02-0	29.2	0.107	0.428		2
06141	Selenium	7782-49-2	3.40	0.0428	0.428		2
06142	Silver	7440-22-4	15.7	0.0128	0.107		2
06145	Thallium	7440-28-0	0.983	0.0321	0.107		2
06148	Vanadium	7440-62-2	56.5	0.0235	0.107		2
06149	Zinc	7440-66-6	99.2	0.599	3.21		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.179	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.9	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	20.0	0.87	1.6		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	404	9.8	32.7		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	40.6	1.1	5.5		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-329-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
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E8206 SDG#: DE082-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	5.1	0.19	0.53		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-329-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 18:32	Chelsea B Eastep	1.11
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 19:17	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 23:54	Sara E Johnson	25.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:11	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104723699	02/16/2011 20:12	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104723699	02/16/2011 19:53	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 12:17	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 18:06	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/24/2011 21:48	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 19:50	Marie D John	22.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:52	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 12:05	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 20:10	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:51	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 15:39	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1

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Sample Description: **SL-329-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/19/2011 00:15	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 23:18	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 18:01	Robert L Garrett	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 06:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 01:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 01:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 01:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 01:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 01:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 00:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	03/01/2011 09:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110471026001C	02/26/2011 22:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	02/26/2011 22:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:14	Damary Valentin	1

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Sample Description: **SL-329-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206986
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202B	03/02/2011 02:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202B	03/02/2011 02:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 22:35	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11055243201A	02/25/2011 18:40	Carrie E Miller	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:26	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-329-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206987
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14420 Albemarle Point Place
Suite 210
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E8206 SDG#: DE082-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	140	7.2	8.6		0.98
06192	Benzene	71-43-2	20	0.11	4.3		0.98
06192	Bromobenzene	108-86-1	16	0.14	4.3		0.98
06192	Bromochloromethane	74-97-5	22	0.35	4.3		0.98
06192	Bromodichloromethane	75-27-4	19	0.09	4.3		0.98
06192	Bromoform	75-25-2	18	0.43	4.3		0.98
06192	Bromomethane	74-83-9	18	0.27	4.3		0.98
06192	2-Butanone	78-93-3	120	1.3	8.6		0.98
06192	n-Butylbenzene	104-51-8	15	0.13	4.3		0.98
06192	sec-Butylbenzene	135-98-8	15	0.06	4.3		0.98
06192	tert-Butylbenzene	98-06-6	15	0.17	4.3		0.98
06192	Carbon Tetrachloride	56-23-5	22	0.15	4.3		0.98
06192	Chlorobenzene	108-90-7	18	0.12	4.3		0.98
06192	Chloroethane	75-00-3	15	0.14	4.3		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	23	0.32	4.3		0.98
06192	Chloroform	67-66-3	21	0.13	4.3		0.98
06192	Chloromethane	74-87-3	18	0.35	4.3		0.98
06192	2-Chlorotoluene	95-49-8	16	0.15	4.3		0.98
06192	4-Chlorotoluene	106-43-4	16	0.15	4.3		0.98
06192	Chlorotrifluoroethene	79-38-9	14	0.50	5.0		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.75	4.3		0.98
06192	Dibromochloromethane	124-48-1	20	0.21	4.3		0.98
06192	1,2-Dibromoethane	106-93-4	19	0.18	4.3		0.98
06192	Dibromomethane	74-95-3	19	0.26	4.3		0.98
06192	1,2-Dichlorobenzene	95-50-1	16	0.1	4.3		0.98
06192	1,3-Dichlorobenzene	541-73-1	16	0.13	4.3		0.98
06192	1,4-Dichlorobenzene	106-46-7	16	0.17	4.3		0.98
06192	Dichlorodifluoromethane	75-71-8	15	0.13	4.3		0.98
06192	1,1-Dichloroethane	75-34-3	20	0.11	4.3		0.98
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.3		0.98
06192	1,1-Dichloroethene	75-35-4	22	0.42	4.3		0.98
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.3		0.98
06192	trans-1,2-Dichloroethene	156-60-5	21	0.13	4.3		0.98
06192	1,2-Dichloropropane	78-87-5	19	0.18	4.3		0.98
06192	1,3-Dichloropropane	142-28-9	19	0.09	4.3		0.98
06192	2,2-Dichloropropane	594-20-7	21	0.18	4.3		0.98
06192	1,1-Dichloropropene	563-58-6	19	0.14	4.3		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.17	4.3		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.18	4.3		0.98
06192	Ethylbenzene	100-41-4	17	0.06	4.3		0.98
06192	Freon 113	76-13-1	22	0.12	4.3		0.98
06192	Freon 133a	75-88-7	20	0.50	5.0		0.91
06192	Hexachlorobutadiene	87-68-3	13	0.15	4.3		0.98
06192	2-Hexanone	591-78-6	58	1.7	8.6		0.98
06192	Isopropylbenzene	98-82-8	15	0.06	4.3		0.98
06192	p-Isopropyltoluene	99-87-6	15	0.12	4.3		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.23	4.3		0.98
06192	4-Methyl-2-pentanone	108-10-1	61	0.42	8.6		0.98
06192	Methylene Chloride	75-09-2	23	0.26	4.3		0.98
06192	n-Propylbenzene	103-65-1	17	0.08	4.3		0.98

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E8206 SDG#: DE082-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	17		0.11	4.3		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.12	4.3		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	18		0.25	4.3		0.98
06192	Tetrachloroethene	127-18-4	18		0.21	4.3		0.98
06192	Toluene	108-88-3	19		0.09	4.3		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	11		0.15	4.3		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	10		0.19	4.3		0.98
06192	1,1,1-Trichloroethane	71-55-6	21		0.21	4.3		0.98
06192	1,1,2-Trichloroethane	79-00-5	20		0.29	4.3		0.98
06192	Trichloroethene	79-01-6	20		0.16	4.3		0.98
06192	Trichlorofluoromethane	75-69-4	21		0.31	4.3		0.98
06192	1,2,3-Trichloropropane	96-18-4	19		0.35	4.3		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	16		0.43	4.3		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	16		0.11	4.3		0.98
06192	Vinyl Chloride	75-01-4	18		0.21	4.3		0.98
06192	m+p-Xylene	179601-23-1	35		0.18	4.3		0.98
06192	o-Xylene	95-47-6	15		0.18	4.3		0.98

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110		5.0	15		22.81
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	1,030		18.0	36.0		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 43.4 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. N-Nitrosodimethylamine was detected at a lower concentration in the re-extraction of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	2,000		18	180		1
04688	Aniline	62-53-3	1,200		180	550		1
04688	Anthracene	120-12-7	1,900		18	180		1
04688	Benzidine	92-87-5	1,700	J	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	2,000		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	1,800		180	550		1
04688	Benzyl alcohol	100-51-6	1,900		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1

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E8206 SDG#: DE082-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Butylbenzylphthalate	85-68-7	2,400	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180		1
04688	Carbazole	86-74-8	2,000	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900	36	180		1
04688	4-Chloroaniline	106-47-8	1,300	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,800	18	180		1
04688	2-Chlorophenol	95-57-8	1,800	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	36	180		1
04688	Chrysene	218-01-9	2,100	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	18	180		1
04688	Dibenzofuran	132-64-9	1,900	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,600	110	360		1
04688	2,4-Dichlorophenol	120-83-2	2,000	18	180		1
04688	Diethylphthalate	84-66-2	1,800	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,900	36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000	36	180		1
04688	Dimethylphthalate	131-11-3	1,800	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,000	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	18	360		1
04688	Fluoranthene	206-44-0	1,900	18	180		1
04688	Fluorene	86-73-7	1,900	18	180		1
04688	Hexachlorobenzene	118-74-1	1,900	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,900	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,900	180	550		1
04688	Hexachloroethane	67-72-1	1,600	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	18	180		1
04688	Isophorone	78-59-1	1,900	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,800	18	180		1
04688	2-Methylphenol	95-48-7	1,800	36	180		1
04688	4-Methylphenol	106-44-5	1,700	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	18	180		1
04688	2-Nitroaniline	88-74-4	2,000	18	180		1
04688	3-Nitroaniline	99-09-2	1,900	36	180		1
04688	4-Nitroaniline	100-01-6	1,400	73	180		1
04688	Nitrobenzene	98-95-3	1,800	18	180		1
04688	2-Nitrophenol	88-75-5	2,000	18	180		1

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Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Nitrophenol	100-02-7	1,700	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	18	180		1
04688	Pentachlorophenol	87-86-5	1,800	180	550		1
04688	Phenanthrene	85-01-8	1,900	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	2,300	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	36	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 20 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.73	1.8		1
10138	Acenaphthylene	208-96-8	33	0.36	1.8		1
10138	Anthracene	120-12-7	35	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	38	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	37	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	41	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	37	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	45	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	44	6.5	20		1
10138	Chrysene	218-01-9	39	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	39	0.73	1.8		1
10138	Diethylphthalate	84-66-2	39	6.5	20		1
10138	Dimethylphthalate	131-11-3	37	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52	6.5	20		1
10138	Fluoranthene	206-44-0	37	0.73	1.8		1
10138	Fluorene	86-73-7	35	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	36	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	32	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	29	0.73	1.8		1
10138	Naphthalene	91-20-3	32	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	31	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	44	6.5	20		1
10138	Phenanthrene	85-01-8	35	0.73	1.8		1
10138	Pyrene	129-00-0	37	0.73	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 6.2 ug/kg bis(2-ethylhexyl)phthalate 7 ug/kg These blank values were not subtracted from the analytical results.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-329-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206987
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.8		0.2	1.1		24.22
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,100		65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,100		44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,100		44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,000		44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,000		44	130	10000000	1
10132	HMX	2691-41-0	1,800		110	330	10000000	1
10132	Nitrobenzene	98-95-3	2,100		44	130	10000000	1
10132	Nitroglycerin	55-63-0	46,000		870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	2,100		87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,000		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,000		87	130	10000000	1
10132	PETN	78-11-5	51,000		870	2,600	10000000	1
10132	RDX	121-82-4	1,700		55	130	10000000	1
10132	Tetryl	479-45-8	1,700		67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,100		44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	10,000		1,300	3,200		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	120		2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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E8206 SDG#: DE082-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	15		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	17		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	6.1		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	50		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	54		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.71	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		110	550		1
10501	Isopropanol	67-63-0	2,400		110	550		1
10501	Methanol	67-56-1	2,400		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	190		5.5	14		1
08283	Ethylene glycol	107-21-1	180		5.5	14		1
08283	Propylene glycol	57-55-6	190		5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.4	3.8		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.3	J	1.3	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.43	21.6		1
07914	Boron	7440-42-8	213		0.961	5.40		1
01650	Calcium	7440-70-2	2,500		6.62	21.6		1

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Sample Description: **SL-329-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206987
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	17,300	5.09	21.6		1
01656	Lithium	7439-93-2	128	0.24	2.2		1
01657	Magnesium	7439-95-4	3,250	2.74	10.8		1
06958	Manganese	7439-96-5	220	0.0842	0.540		1
10145	Phosphorus	7723-14-0	444	0.605	10.8		1
01662	Potassium	7440-09-7	4,320	19.4	54.0		1
01667	Sodium	7440-23-5	1,200	40.3	108		1
07968	Strontium	7440-24-6	120	0.0669	0.540		1
06969	Tin	7440-31-5	413	1.08	10.8		1
06970	Titanium	7440-32-6	1,210	0.410	1.08		1
10146	Zirconium	7440-67-7	109	0.907	5.40		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.759	0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.96	0.0855	0.428		2
06126	Barium	7440-39-3	143	0.115	0.428		2
06127	Beryllium	7440-41-7	1.92	0.0171	0.107		2
06128	Cadmium	7440-43-9	1.77	0.0428	0.107		2
06131	Chromium	7440-47-3	36.4	0.128	0.428		2
06132	Cobalt	7440-48-4	86.4	0.0214	0.107		2
06133	Copper	7440-50-8	25.4	0.0706	0.428		2
06135	Lead	7439-92-1	13.7	0.0111	0.214		2
06138	Molybdenum	7439-98-7	16.7	0.0535	0.107		2
06139	Nickel	7440-02-0	29.9	0.107	0.428		2
06141	Selenium	7782-49-2	2.94	0.0428	0.428		2
06142	Silver	7440-22-4	15.4	0.0128	0.107		2
06145	Thallium	7440-28-0	1.09	0.0321	0.107		2
06148	Vanadium	7440-62-2	54.8	0.0235	0.107		2
06149	Zinc	7440-66-6	107	0.599	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.179	0.0030	0.105		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-329-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-329-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206987
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 18:54	Chelsea B Eastep	0.98
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 19:39	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/18/2011 00:14	Sara E Johnson	22.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104723699	02/16/2011 20:12	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104723699	02/16/2011 19:59	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 12:50	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 18:31	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/24/2011 22:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 20:26	Marie D John	24.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 19:59	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 12:48	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 20:19	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 11:57	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 15:57	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/19/2011 00:40	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/16/2011 23:33	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/16/2011 18:18	Robert L Garrett	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 06:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 01:08	Tara L Snyder	1

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Sample Description: **SL-329-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206987
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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E8206 SDG#: DE082-06MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 01:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 01:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 01:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 01:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 00:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110471026001C	02/26/2011 22:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	02/26/2011 22:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-329-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206988
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.38	21.4		1
07914	Boron	7440-42-8	0.952	U	0.952	5.35		1
01650	Calcium	7440-70-2	2,050		6.55	21.4		1
01654	Iron	7439-89-6	17,200		5.04	21.4		1
01656	Lithium	7439-93-2	21.2		0.24	2.1		1
01657	Magnesium	7439-95-4	2,970		2.72	10.7		1
06958	Manganese	7439-96-5	167		0.0834	0.535		1
10145	Phosphorus	7723-14-0	357		0.599	10.7		1
01662	Potassium	7440-09-7	3,130		19.2	53.5		1
01667	Sodium	7440-23-5	155		39.9	107		1
07968	Strontium	7440-24-6	16.3		0.0663	0.535		1
06969	Tin	7440-31-5	2.86	J	1.07	10.7		1
06970	Titanium	7440-32-6	928		0.406	1.07		1
10146	Zirconium	7440-67-7	2.20	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.35		0.0864	0.432		2
06126	Barium	7440-39-3	112		0.117	0.432		2
06127	Beryllium	7440-41-7	0.759		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.188		0.0432	0.108		2
06131	Chromium	7440-47-3	19.7		0.130	0.432		2
06132	Cobalt	7440-48-4	6.21		0.0216	0.108		2
06133	Copper	7440-50-8	10.2		0.0713	0.432		2
06135	Lead	7439-92-1	8.70		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.468		0.0540	0.108		2
06139	Nickel	7440-02-0	12.7		0.108	0.432		2
06141	Selenium	7782-49-2	0.178	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0259	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.379		0.0324	0.108		2
06148	Vanadium	7440-62-2	38.1		0.0238	0.108		2
06149	Zinc	7440-66-6	82.1		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	8.3		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-329-SA5B-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206988
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	535		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	28a Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 01:01	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 01:01	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 01:01	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 01:01	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 01:01	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 00:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:29	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206988
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE082-06DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110471026001C	03/01/2011 09:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	02/26/2011 22:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202B	03/02/2011 01:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202B	03/02/2011 01:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 22:59	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 19:11	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:25	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.81
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6		0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.6		0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.6		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.6		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.6		0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.6		0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.6		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6		0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.6		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.6		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.6		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.6		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.6		0.81
06192	Ethylbenzene	100-41-4	0.1	J	0.06	3.6		0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.6		0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.6		0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.6		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3		0.81
06192	Methylene Chloride	75-09-2	0.64	J	0.22	3.6		0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.81

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.6		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.81
06192	Toluene	108-88-3	0.09	J	0.07	3.6		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.6		0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6		0.81
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.81
06192	m+p-Xylene	179601-23-1	0.28	J	0.16	3.6		0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.6		0.81

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.85
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	82.4		18.8	37.5		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 43.4 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. N-Nitrosodimethylamine was not detected in the re-extraction of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1

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Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The LCS recovery for PCB 1016, PCB 1260 and the surrogates are outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.64	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.59	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1

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Sample Description: **SL-330-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.60	22.3		1
07914	Boron	7440-42-8	0.991	U	0.991	5.57		1
01650	Calcium	7440-70-2	1,400		6.83	22.3		1
01654	Iron	7439-89-6	18,600		5.25	22.3		1
01656	Lithium	7439-93-2	18.9		0.25	2.2		1
01657	Magnesium	7439-95-4	2,920		2.83	11.1		1
06958	Manganese	7439-96-5	273		0.0869	0.557		1
10145	Phosphorus	7723-14-0	274		0.624	11.1		1
01662	Potassium	7440-09-7	3,500		20.0	55.7		1
01667	Sodium	7440-23-5	310		41.5	111		1
07968	Strontium	7440-24-6	10.7		0.0691	0.557		1
06969	Tin	7440-31-5	2.91	J	1.11	11.1		1
06970	Titanium	7440-32-6	997		0.423	1.11		1
10146	Zirconium	7440-67-7	0.936	U	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.61		0.0891	0.445		2
06126	Barium	7440-39-3	159		0.120	0.445		2
06127	Beryllium	7440-41-7	0.803		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.201		0.0445	0.111		2
06131	Chromium	7440-47-3	22.8		0.134	0.445		2
06132	Cobalt	7440-48-4	7.45		0.0223	0.111		2
06133	Copper	7440-50-8	10.4		0.0735	0.445		2
06135	Lead	7439-92-1	7.48		0.0116	0.223		2

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Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.509	0.0557	0.111		2
06139	Nickel	7440-02-0	13.7	0.111	0.445		2
06141	Selenium	7782-49-2	0.258 J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0360 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.392	0.0334	0.111		2
06148	Vanadium	7440-62-2	43.8	0.0245	0.111		2
06149	Zinc	7440-66-6	90.3	0.624	3.34		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	498	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.25	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-330-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 20:02	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 22:14	Sara E Johnson	21.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104723699	02/16/2011 20:12	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104723699	02/16/2011 20:05	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11052SLE026	02/28/2011 14:49	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 20:36	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLI026	02/25/2011 11:43	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11052SLE026	02/22/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLI026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/17/2011 21:03	Marie D John	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104723699	02/16/2011 20:04	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 13:30	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110470025A	02/18/2011 20:29	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110470012A	02/18/2011 12:03	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110520008A	03/04/2011 16:16	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110520008A	02/21/2011 14:30	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110470012A	02/17/2011 09:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110470025A	02/17/2011 08:25	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110470026A	02/18/2011 23:25	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110470030A	02/17/2011 00:02	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110470017A	02/17/2011 00:08	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/24/2011 20:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110470026A	02/17/2011 10:00	Denise L Trimby	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110470017A	02/16/2011 14:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110470030A	02/16/2011 18:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110475708001	02/22/2011 01:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110475708001	02/22/2011 01:36	Tara L Snyder	1

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Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110475708001	02/22/2011 01:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110475708001	02/22/2011 01:36	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110475708001	02/22/2011 01:36	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110475708001	02/21/2011 01:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110471026001D	02/26/2011 22:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110471026001C	03/01/2011 12:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110471026001B	02/26/2011 22:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110471026001A	02/26/2011 22:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110475711001	02/17/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110475708001	02/16/2011 19:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110471026001	02/16/2011 19:59	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110475711001	02/16/2011 21:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11059621202B	03/02/2011 03:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11059621202B	03/02/2011 03:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201B	02/25/2011 23:23	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11055243201A	02/25/2011 19:38	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:27	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11059621201B	03/01/2011 07:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11055243201A	02/24/2011 09:40	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-330-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206989
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE082-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-021511 Water
SSFL Area IV Collocated Soil Sampling
TB-021511

LLI Sample # WW 6206990
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8208 SDG#: DE082-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-021511 Water
SSFL Area IV Collocated Soil Sampling
TB-021511

LLI Sample # WW 6206990
LLI Group # 1233313
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:00

Submitted: 02/16/2011 09:00
Reported: 03/15/2011 18:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8208 SDG#: DE082-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110482AA	02/17/2011	15:56	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110481AA	02/17/2011	15:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110481AA	02/17/2011	15:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110482AA	02/17/2011	15:56	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11049A20A	02/20/2011	19:37	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11049A20A	02/20/2011	19:37	Marie D John	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110482AA	Sample number(s): 6206980,6206982-6206987,6206989									
Acetone	6.7	U	6.7	8.0	ug/kg	105		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	93		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	81		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	105		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	96		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	81		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	91		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	83		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	78		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	75		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	95		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	72		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	106		43-146		
Chloroform	0.14	J	0.12	4.0	ug/kg	99		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	73		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	82		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	85		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	57		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	100		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	98		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	89		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	85		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	87		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	61		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	92		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	94		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	93		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	95		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	88		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	92		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	87		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	79*		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	82		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	87		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	90		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	79		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	68		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	67		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	84		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	81		75-120		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	65		61-134		
Methylene Chloride	0.39	J	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	90		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	85		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	91		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	92		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	75		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	67*		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	89		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	88		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	86		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	83		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	71		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	82		80-120		
Batch number: E110481AA	Sample number(s): 6206981,6206990									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	106	80-123	4	30
Batch number: E110482AA	Sample number(s): 6206980,6206982-6206987,6206989									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	101	70-130	2	30
Batch number: Y110482AA	Sample number(s): 6206981,6206990									
Acetone	6	U	6.	20	ug/l	106	106	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	95	99	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	94	98	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	100	105	80-120	5	30
Bromodichloromethane	1	U	1.	5	ug/l	88	92	80-120	5	30
Bromoform	1	U	1.	5	ug/l	73	77	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	95	99	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	104	108	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	92	95	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	99	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	96	80-120	5	30
Carbon Tetrachloride	1	U	1.	5	ug/l	88	93	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	100	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	95	96	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	106	111	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	96	100	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	95	98	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	99	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	79	81	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	91	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	83	87	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	97	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	96	100	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	97	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	95	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	78	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	102	79-120	5	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	109	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	91	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	100	80-120	5	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	96	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	99	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	103	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	95	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	100	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	89	93	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	93	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	99	79-120	5	30
Freon 113	2	U	2.	10	ug/l	81	83	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	106	108	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	83	86	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	100	103	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	94	98	77-120	4	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	98	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	99	104	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	97	98	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	100	80-120	4	30
Styrene	1	U	1.	5	ug/l	90	94	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	91	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	97	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	95	99	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	95	80-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	94	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	81	83	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	96	99	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	92	97	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	90	94	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	96	100	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	95	98	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	94	97	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	95	98	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	98	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	94	99	80-120	5	30
Batch number: 11049WAA026	Sample number(s): 6206981									
Acenaphthene	0.010	U	0.010	0.050	ug/l	106	102	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	107	103	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	104	103	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	118*	115*	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	115	111	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	124*	118	69-123	5	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	111	109	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	111	112	59-130	0	30
Butylbenzylphthalate	0.13	J	0.050	1.0	ug/l	95	87	40-138	9	30
Di-n-butylphthalate	0.16	J	0.050	1.0	ug/l	105	100	74-131	5	30
Chrysene	0.010	U	0.010	0.050	ug/l	111	110	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	109	107	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	105	95	57-134	10	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	73	66	40-119	10	30
Bis(2-Ethylhexyl)phthalate	0.18	J	0.050	1.0	ug/l	138	125	57-154	10	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	101	99	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	110	106	75-114	4	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	110	108	69-124	2	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	102	106	71-117	4	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	94	75-115	3	30
Naphthalene	0.010	U	0.010	0.050	ug/l	100	97	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	77	73	36-89	5	30
Di-n-octylphthalate	0.18	J	0.050	1.0	ug/l	133	114	57-145	15	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	102	100	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	114	110	69-118	4	30
Batch number: 11049WAB026	Sample number(s): 6206981									
Aniline	1	U	1.	5	ug/l	70	82	49-101	16	30
Benzidine	20	U	20.	60	ug/l	72	87	34-117	19	30
Benzoic acid	6	U	6.	15	ug/l	43	44	10-69	3	30
Benzyl alcohol	5	U	5.	15	ug/l	85	87	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	96	96	82-117	0	30
Carbazole	1	U	1.	5	ug/l	95	95	81-114	0	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	94	70-123	3	30
4-Chloroaniline	1	U	1.	5	ug/l	49	67	42-124	31*	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	96	96	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	94	95	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	97	96	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	80	82	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	96	98	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	100	102	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	99	102	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	94	55-118	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	93	50-119	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	93	53-119	1	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	56	68	49-111	18	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	96	97	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	95	95	72-110	0	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	99	97	70-130	3	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	92	96	78-119	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	97	109	52-131	11	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	98	101	81-115	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	100	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	97	78-116	1	30
Hexachlorobenzene	1	U	1.	5	ug/l	99	98	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	94	90	57-124	4	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	94	96	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	91	90	52-113	1	30
Isophorone	1	U	1.	5	ug/l	94	94	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	86	88	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	77	81	61-103	5	30
2-Nitroaniline	1	U	1.	5	ug/l	97	100	83-116	3	30
3-Nitroaniline	1	U	1.	5	ug/l	93	97	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	77	78	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	91	90	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	94	96	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	36	40	16-78	10	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	94	93	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	96	97	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	94	96	53-110	2	30
Phenol	1	U	1.	5	ug/l	44	47	21-67	7	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	97	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	99	101	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	101	104	81-113	3	30
Batch number: 11052SLE026	Sample number(s): 6206980,6206982-6206987,6206989									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	43.4		16.7	33.3	ng/kg	91		70-130		
Batch number: 11052SLG026	Sample number(s): 6206980,6206982-6206987,6206989									
Acenaphthene	17	U	17.	170	ug/kg	81		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	88		75-122		
Aniline	170 U		170.	500	ug/kg	64		34-94		
Anthracene	17	U	17.	170	ug/kg	102		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	102		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	79		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	87		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	86		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	90		67-125		
Benzoic acid	170 U		170.	500	ug/kg	109		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	111		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	101		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	46		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	101		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	101		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	105		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	48		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	104		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	85		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	105		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	112		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	92		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	20	J	17.	330	ug/kg	84		75-117		
Fluoranthene	17	U	17.	170	ug/kg	107		78-116		
Fluorene	17	U	17.	170	ug/kg	82		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	80		46-115		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	90		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	99		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
Naphthalene	17	U	17.	170	ug/kg	95		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	100		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	90		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	103		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	84		51-117		
Phenanthrene	17	U	17.	170	ug/kg	104		77-113		
Phenol	17	U	17.	170	ug/kg	101		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11052SLI026	Sample number(s): 6206980,6206982-6206987,6206989									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	95		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	109		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	107		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	121		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	114		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	127		65-131		
Di-n-butylphthalate	6.2	J	6.0	18	ug/kg	115		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	106		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	120		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	113		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	7.0	J	6.0	18	ug/kg	131		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	119		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	76		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	82		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	83		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	132		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	108		56-121		
Batch number: 11052WAB026	Sample number(s): 6206981									
N-Nitrosodimethylamine	4.03		0.500	1.00	ng/l	120	119	70-130	0	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11048A34A	Sample number(s): 6206980,6206982-6206987,6206989									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 11049A20A	Sample number(s): 6206981,6206990									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 110500016A	Sample number(s): 6206981									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	85	91	80-120	7	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	83	87	80-120	5	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	15*	20*	75-125	29	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	15*	20*	75-125	29	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	84	78	72-117	7	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	84	85	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	92	95	80-120	3	30
HMX	0.65	U	0.65	2.0	ug/l	74	68	65-125	8	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	80	71*	75-121	12	30
Nitroglycerin	5.2	U	5.2	15	ug/l	83	83	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	83	84	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	83	84	69-107	1	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	83	83	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	96	100	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	83	73	70-125	13	30
Tetryl	0.40	U	0.40	0.60	ug/l	87	96	33-147	10	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	89	83	53-129	7	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	87	90	76-109	3	30
Batch number: 110530007A	Sample number(s): 6206980,6206982-6206987,6206989									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	119	119	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	119	118	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	116		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	120		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 110470025A	Sample number(s): 6206980,6206982-6206987,6206989									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	95		80-126		
Batch number: 110480018A	Sample number(s): 6206981									
17b Formaldehyde by 8315A	10	U	10.	50	ug/l	90	90	69-130	0	30
Batch number: 110470012A	Sample number(s): 6206982,6206985-6206987,6206989									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	102		85-115		
Batch number: 110480037A	Sample number(s): 6206981									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	60	62	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	94	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	94	92	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110520008A	Sample number(s): 6206980,6206982-6206987,6206989									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	57	70	36-106	21	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	207*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	235*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110470026A	Sample number(s): 6206980,6206982-6206987,6206989									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	78		66-113		
Batch number: 110500004A	Sample number(s): 6206981									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	92	94	60-120	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	95	93	60-120	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	92	60-120	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	93	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	76	78	60-120	3	30
Batch number: 110470017A	Sample number(s): 6206980,6206982-6206987,6206989									
Diethylene glycol	5.0	U	5.0	13	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	89		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	96		75-125		
Batch number: 110470030A	Sample number(s): 6206980,6206982-6206987,6206989									
Ethanol	100 U		100.	500	ug/kg	95		75-112		
Isopropanol	100 U		100.	500	ug/kg	98		75-125		
Methanol	100 U		100.	500	ug/kg	99		75-134		
Batch number: 110480031A	Sample number(s): 6206981									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethanol	200 U	200.	1,000	ug/l	104		66-132		
Isopropanol	200 U	200.	1,000	ug/l	108		75-125		
Methanol	200 U	200.	1,000	ug/l	104		77-137		
Batch number: 110530017A	Sample number(s): 6206981								
Diethylene glycol	10 U	10.	100	mg/l	100		78-126		
Ethylene glycol	10 U	10.	100	mg/l	95		80-124		
Propylene glycol	10 U	10.	100	mg/l	100		80-120		
Batch number: 110520017A	Sample number(s): 6206981								
m-Terphenyl	0.080 U	0.080	0.25	mg/l	110	110	75-125	0	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	110	100	75-125	10	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	100	91	75-125	9	20
Batch number: 110530028A	Sample number(s): 6206980,6206982-6206987,6206989								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	94		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	81		75-125		
Batch number: 110471026001A	Sample number(s): 6206980,6206982-6206989								
Antimony	0.0600 U	0.0600	0.200	mg/kg	86		11-208		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	116		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	105		82-118		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	117		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	112		82-118		
Copper	0.178 J	0.0660	0.400	mg/kg	107		80-120		
Lead	0.0161 J	0.0104	0.200	mg/kg	114		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	111		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	110		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	112		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	107		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	120		78-122		
Batch number: 110471026001B	Sample number(s): 6206980,6206982-6206989								
Selenium	0.0400 U	0.0400	0.400	mg/kg	105		79-122		
Batch number: 110471026001C	Sample number(s): 6206980,6206982-6206989								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	111		78-122		
Batch number: 110471026001D	Sample number(s): 6206980,6206982-6206989								
Barium	0.108 U	0.108	0.400	mg/kg	111		79-121		
Batch number: 110471848002	Sample number(s): 6206981								
Aluminum	0.0834 U	0.0834	0.200	mg/l	94		90-112		
Boron	0.0138 U	0.0138	0.0500	mg/l	94		90-110		
Calcium	0.0702 U	0.0702	0.200	mg/l	99		90-112		
Iron	0.0522 U	0.0522	0.200	mg/l	99		90-112		
Lithium	0.0104 J	0.0024	0.0200	mg/l	103		80-120		
Magnesium	0.0172 U	0.0172	0.100	mg/l	98		89-110		
Manganese	0.00084 U	0.00084	0.0050	mg/l	100		90-110		
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99		80-120		
Potassium	0.239 U	0.239	0.500	mg/l	98		85-115		
Sodium	0.433 U	0.433	1.00	mg/l	98		87-114		
Strontium	0.00089 U	0.00089	0.0050	mg/l	100		90-110		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tin	0.0098	U	0.0098	0.0200	mg/l	98		90-110		
Titanium	0.0038	U	0.0038	0.0100	mg/l	100		90-113		
Zirconium	0.0206	U	0.0206	0.0500	mg/l	100		80-120		
Batch number: 110475708001	Sample number(s): 6206980,6206982-6206989									
Aluminum	10.7	J	5.03	20.0	mg/kg	105		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	99		78-110		
Calcium	15.8	J	6.13	20.0	mg/kg	101		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.32	J	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	106		81-119		
Phosphorus	1.20	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	90		78-110		
Sodium	37.3	U	37.3	100	mg/kg	90		87-110		
Strontium	0.101	J	0.0620	0.500	mg/kg	114		79-121		
Tin	1.41	J	1.00	10.0	mg/kg	111		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	112		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	105		80-120		
Batch number: 110475711001	Sample number(s): 6206980,6206982-6206989									
Mercury	0.0028	U	0.0028	0.0968	mg/kg	93		88-123		
Batch number: 110476050002A	Sample number(s): 6206981									
Arsenic	0.00095	U	0.00095	0.0020	mg/l	99		86-111		
Beryllium	0.00013	U	0.00013	0.00050	mg/l	111		90-112		
Cadmium	0.00020	U	0.00020	0.00050	mg/l	102		90-114		
Chromium	0.00060	U	0.00060	0.0020	mg/l	101		90-118		
Cobalt	0.00010	U	0.00010	0.00050	mg/l	101		80-120		
Copper	0.00038	U	0.00038	0.0020	mg/l	103		90-113		
Lead	0.000052 U		0.00005 2	0.0010	mg/l	104		90-115		
Nickel	0.00050	U	0.00050	0.0020	mg/l	102		90-113		
Silver	0.000080 U		0.00008 0	0.00050	mg/l	103		90-115		
Thallium	0.00015	U	0.00015	0.00050	mg/l	98		89-116		
Vanadium	0.00016	U	0.00016	0.00050	mg/l	100		80-120		
Zinc	0.0040	U	0.0040	0.0150	mg/l	101		80-120		
Batch number: 110476050002B	Sample number(s): 6206981									
Selenium	0.00025	U	0.00025	0.0020	mg/l	106		85-114		
Batch number: 110476050002C	Sample number(s): 6206981									
Molybdenum	0.00025	U	0.00025	0.00050	mg/l	104		80-120		
Batch number: 110476050002D	Sample number(s): 6206981									
Barium	0.00053	U	0.00053	0.0020	mg/l	107		88-113		
Batch number: 110485713002	Sample number(s): 6206981									
Mercury	0.000050 U		0.00005 0	0.00020	mg/l	107	98	80-120	9	20
Batch number: 110626050001A	Sample number(s): 6206981									
Antimony	0.00030	U	0.00030	0.0010	mg/l	95	100	87-110	5	20
Batch number: 11047196401B	Sample number(s): 6206981									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	95	99	90-110	4	20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11047196902C	Sample number(s): 6206981									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	99	99	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	101	102	90-110	1	20
Batch number: 11054102202A	Sample number(s): 6206980,6206982-6206986,6206988-6206989									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	95		80-120		
Batch number: 11054117101B	Sample number(s): 6206981									
21b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	101	100	90-110	1	20
Batch number: 11055191201B	Sample number(s): 6206980,6206982-6206986,6206988-6206989									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11055243201A	Sample number(s): 6206980,6206982-6206986,6206988-6206989									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11059199401A	Sample number(s): 6206981									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	101	104	85-115	3	20
Batch number: 11059621202B	Sample number(s): 6206980,6206982-6206986,6206988-6206989									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11048020002A	Sample number(s): 6206981									
22b pH by 9040B						100	100	90-110	0	1
Batch number: 11049039401A	Sample number(s): 6206980,6206982-6206984									
22a pH by 9045C						100		95-105		
Batch number: 11049039401B	Sample number(s): 6206985,6206988-6206989									
22a pH by 9045C						100		95-105		
Batch number: 11049182101A	Sample number(s): 6206980,6206982-6206984									
32a OR Potential						99		98-102		
Batch number: 11049182101B	Sample number(s): 6206985,6206988-6206989									
32a OR Potential						99		98-102		
Batch number: 11061162401B	Sample number(s): 6206980,6206982-6206989									
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110482AA	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
Acetone	88	88	15-210	12	30				
Benzene	99	93	55-143	18	30				
Bromobenzene	83	76	43-139	21	30				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromochloromethane	102	100	60-137	14	30				
Bromodichloromethane	95	90	53-136	18	30				
Bromoform	86	83	38-124	16	30				
Bromomethane	84	83	42-168	14	30				
2-Butanone	72	76	37-163	6	30				
n-Butylbenzene	81	68	30-146	28	30				
sec-Butylbenzene	80	69	33-157	26	30				
tert-Butylbenzene	76	68	41-152	23	30				
Carbon Tetrachloride	110	100	45-153	21	30				
Chlorobenzene	95	85	49-135	23	30				
Chloroethane	74	69	39-152	19	30				
2-Chloroethyl Vinyl Ether	99	105	32-139	6	30				
Chloroform	105	98	61-142	19	30				
Chloromethane	83	82	51-163	13	30				
2-Chlorotoluene	84	75	42-146	23	30				
4-Chlorotoluene	83	77	39-145	20	30				
Chlorotrifluoroethene	70	70	70-130	2	30				
1,2-Dibromo-3-chloropropane	69	77	30-139	1	30				
Dibromochloromethane	98	91	51-128	19	30				
1,2-Dibromoethane	90	88	54-129	14	30				
Dibromomethane	95	90	57-130	17	30				
1,2-Dichlorobenzene	84	77	36-133	21	30				
1,3-Dichlorobenzene	81	73	34-134	23	30				
1,4-Dichlorobenzene	82	74	35-136	21	30				
Dichlorodifluoromethane	74	72	26-151	14	30				
1,1-Dichloroethane	99	94	63-142	17	30				
1,2-Dichloroethane	103	97	68-131	18	30				
1,1-Dichloroethene	105	100	61-149	17	30				
cis-1,2-Dichloroethene	101	96	60-136	17	30				
trans-1,2-Dichloroethene	103	96	59-142	19	30				
1,2-Dichloropropane	92	88	62-135	17	30				
1,3-Dichloropropane	90	88	58-129	15	30				
2,2-Dichloropropane	103	98	53-147	17	30				
1,1-Dichloropropene	97	91	54-145	18	30				
cis-1,3-Dichloropropene	81	77	51-131	16	30				
trans-1,3-Dichloropropene	80	78	49-129	14	30				
Ethylbenzene	88	77	44-141	26	30				
Freon 113	106	101	56-156	17	30				
Freon 133a	93	98	61-131	6	30				
Hexachlorobutadiene	68	60	10-155	23	30				
2-Hexanone	52	54	32-160	8	30				
Isopropylbenzene	81	69	38-144	27	30				
p-Isopropyltoluene	81	69	29-152	27	30				
Methyl Tertiary Butyl Ether	82	85	55-129	9	30				
4-Methyl-2-pentanone	52	57	46-139	5	30				
Methylene Chloride	97	103	61-141	6	30				
n-Propylbenzene	90	77	39-157	28	30				
Styrene	89	79	35-134	24	30				
1,1,1,2-Tetrachloroethane	100	91	52-130	21	30				
1,1,2,2-Tetrachloroethane	80	85	40-152	7	30				
Tetrachloroethene	96	85	42-149	25	30				
Toluene	96	86	50-146	23	30				
1,2,3-Trichlorobenzene	55	52	10-140	17	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	51	48	10-136	19	30				
1,1,1-Trichloroethane	103	97	64-142	18	30				
1,1,2-Trichloroethane	95	92	54-139	15	30				
Trichloroethene	98	91	53-144	19	30				
Trichlorofluoromethane	105	99	47-163	18	30				
1,2,3-Trichloropropane	85	88	45-154	8	30				
1,2,4-Trimethylbenzene	85	75	37-149	25	30				
1,3,5-Trimethylbenzene	85	75	38-150	25	30				
Vinyl Chloride	83	83	50-154	12	30				
m+p-Xylene	94	81	44-137	27	30				
o-Xylene	83	72	42-137	26	30				
Batch number: E110482AA	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
1,4-Dioxane	91	90	70-130	11	30				
Batch number: 11052SLE026	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
N-Nitrosodimethylamine	93	97	70-130	3	30				
Batch number: 11052SLG026	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
Acenaphthene	96	101	75-115	5	30				
Acenaphthylene	92	108	81-110	16	30				
Aniline	72	66	35-95	8	30				
Anthracene	104	104	75-115	0	30				
Benzidine	33*	19*	35-141	56*	30				
Benzo(a)anthracene	112	110	65-122	2	30				
Benzo(a)pyrene	96	98	57-126	2	30				
Benzo(b)fluoranthene	103	98	59-125	5	30				
Benzo(g,h,i)perylene	98	102	59-127	3	30				
Benzo(k)fluoranthene	91	101	56-132	10	30				
Benzoic acid	93	99	10-173	7	30				
Benzyl alcohol	105	104	67-115	1	30				
4-Bromophenyl-phenylether	100	92	67-129	8	30				
Butylbenzylphthalate	114	133	73-134	15	30				
Di-n-butylphthalate	100	99	67-123	1	30				
Carbazole	103	108	64-120	5	30				
4-Chloro-3-methylphenol	97	107	76-110	10	30				
4-Chloroaniline	62	70	23-95	11	30				
bis(2-Chloroethoxy)methane	93	102	75-104	9	30				
bis(2-Chloroethyl)ether	98	97	60-116	1	30				
bis(2-Chloroisopropyl)ether	98	98	55-142	0	30				
2-Chloronaphthalene	97	100	50-141	3	30				
2-Chlorophenol	102	100	73-121	1	30				
4-Chlorophenyl-phenylether	94	100	80-109	6	30				
Chrysene	88	118	62-128	29	30				
Dibenz(a,h)anthracene	99	99	65-125	0	30				
Dibenzofuran	97	102	71-112	5	30				
1,2-Dichlorobenzene	94	91	66-108	3	30				
1,3-Dichlorobenzene	91	78	63-109	15	30				
1,4-Dichlorobenzene	94	90	70-100	4	30				
3,3'-Dichlorobenzidine	57	89	16-119	44*	30				
2,4-Dichlorophenol	98	109	78-117	10	30				
Diethylphthalate	92	100	66-118	9	30				
2,4-Dimethylphenol	104	107	78-110	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,5-Dimethylphenol	110	112	70-130	2	30				
Dimethylphthalate	84	98	64-118	15	30				
4,6-Dinitro-2-methylphenol	79	72	24-116	10	30				
2,4-Dinitrophenol	54	54	20-143	0	30				
2,4-Dinitrotoluene	96	103	73-113	7	30				
2,6-Dinitrotoluene	97	105	69-123	8	30				
1,2-Diphenylhydrazine	104	107	71-129	4	30				
bis(2-Ethylhexyl)phthalate	114	111	63-122	3	30				
Fluoranthene	98	103	73-112	6	30				
Fluorene	92	103	77-111	11	30				
Hexachlorobenzene	107	105	77-114	2	30				
Hexachlorobutadiene	90	102	62-120	13	30				
Hexachlorocyclopentadiene	78	78	10-153	0	30				
Hexachloroethane	94	91	57-109	4	30				
Indeno(1,2,3-cd)pyrene	101	103	61-126	2	30				
Isophorone	101	103*	73-102	3	30				
1-Methylnaphthalene	100	101	73-112	1	30				
2-Methylnaphthalene	95	96	76-114	1	30				
2-Methylphenol	94	101	75-111	7	30				
4-Methylphenol	95	96	71-111	1	30				
Naphthalene	100	101	72-116	1	30				
2-Nitroaniline	104	108	67-125	4	30				
3-Nitroaniline	103	104	59-122	1	30				
4-Nitroaniline	61	78	52-112	24	30				
Nitrobenzene	96	97	72-106	2	30				
2-Nitrophenol	102	109	74-115	7	30				
4-Nitrophenol	89	94	54-113	6	30				
N-Nitroso-di-n-propylamine	96	97	60-116	1	30				
N-Nitrosodimethylamine	92	92	47-116	0	30				
N-Nitrosodiphenylamine	99	105	86-145	6	30				
Di-n-octylphthalate	110	106	56-126	4	30				
Pentachlorophenol	96	102	28-127	6	30				
Phenanthrene	104	106	65-125	2	30				
Phenol	99	98	58-126	1	30				
Pyrene	113	127*	74-126	12	30				
1,2,4-Trichlorobenzene	102	102	72-115	0	30				
2,4,5-Trichlorophenol	100	105	78-109	5	30				
2,4,6-Trichlorophenol	106	109	77-115	3	30				
Batch number: 11052SLI026	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
Acenaphthene	94	93	63-105	1	30				
Acenaphthylene	90	91	67-114	1	30				
Anthracene	94	97	60-122	3	30				
Benzo(a)anthracene	101	105	59-128	4	30				
Benzo(a)pyrene	102	103	45-138	1	30				
Benzo(b)fluoranthene	108	112	43-155	4	30				
Benzo(g,h,i)perylene	101	93	33-141	8	30				
Benzo(k)fluoranthene	114	102	42-144	11	30				
Butylbenzylphthalate	131	123	57-173	7	30				
Di-n-butylphthalate	123	122	65-148	1	30				
Chrysene	106	107	48-134	1	30				
Dibenz(a,h)anthracene	119	107	22-133	11	30				
Diethylphthalate	109	108	70-136	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dimethylphthalate	103	102	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	130	142	39-167	9	30				
Fluoranthene	109	101	26-166	8	30				
Fluorene	96	96	66-122	0	30				
Indeno(1,2,3-cd)pyrene	114	99	21-143	14	30				
1-Methylnaphthalene	90	88	72-123	2	30				
2-Methylnaphthalene	81	80	64-103	1	30				
Naphthalene	89	89	61-102	1	30				
N-Nitrosodimethylamine	94	86	48-113	8	30				
Di-n-octylphthalate	155	121	40-192	25	30				
Phenanthrene	98	95	12-165	3	30				
Pyrene	101	100	15-153	0	30				
Batch number: 11048A34A	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
9a TPH by EPA 8015B Gas C5-C12	78	67	39-118	7	30				
Batch number: 110530007A	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
4-Amino-2,6-Dinitrotoluene	98	96	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	96	95	80-137	1	50				
1,3-Dinitrobenzene	99	97	38-166	2	50				
2,4-Dinitrotoluene	95	93	80-131	1	50				
2,6-Dinitrotoluene	98	94	80-127	4	50				
HMX	81	82	63-128	1	50				
Nitrobenzene	97	98	80-125	1	50				
Nitroglycerin	91	89	80-120	2	50				
2-Nitrotoluene	97	95	80-122	2	50				
3-Nitrotoluene	95	92	72-119	3	50				
4-Nitrotoluene	94	91	80-125	4	50				
PETN	98	97	80-121	1	50				
RDX	79	79	75-129	0	50				
Tetryl	80	76	55-174	5	50				
1,3,5-Trinitrobenzene	93	92	82-126	1	50				
2,4,6-Trinitrotoluene	99	97	82-130	2	50				
Batch number: 110470025A	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
17a Formaldehyde by 8315A	90	97	80-120	6	50				
Batch number: 110470012A	Sample number(s): 6206982,6206985-6206987,6206989 UNSPK: 6206985								
6a Perchlorate EPA 6850	107	107	80-120	0	20				
Batch number: 110520008A	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
PCB-1016	86	81	29-146	6	50				
PCB-1260	102	91	39-149	11	50				
Batch number: 110470026A	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
EFH (C12-C14)	85	89	49-123	5	20				
EFH (C15-C20)	290*	449*	49-123	43*	20				
EFH (C21-C30)	1321*	2098*	49-123	43*	20				
EFH (C30 - C40)	1212*	1816*	49-123	36*	20				
EFH (C8-C11)	75	77	49-123	3	20				
Batch number: 110470017A	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
Diethylene glycol	82	82	59-109	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylene glycol	80	81	63-107	0	20				
Propylene glycol	86	87	63-107	1	20				
Batch number: 110470030A	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
Ethanol	86	85	24-143	0	20				
Isopropanol	88	88	75-125	0	20				
Methanol	89	88	45-136	1	20				
Batch number: 110480031A	Sample number(s): 6206981 UNSPK: P207954								
Ethanol	96	96	69-125	0	20				
Isopropanol	108	108	75-125	0	20				
Methanol	108	104	61-131	4	20				
Batch number: 110530017A	Sample number(s): 6206981 UNSPK: 6206981								
Diethylene glycol	82*	118	83-130	36*	20				
Ethylene glycol	95	110	89-125	14	20				
Propylene glycol	95	105	91-128	10	20				
Batch number: 110530028A	Sample number(s): 6206980,6206982-6206987,6206989 UNSPK: 6206985								
m-Terphenyl	80	80	75-125	1	20				
o-Terphenyl	96	95	75-125	2	20				
p-Terphenyl	75	73*	75-125	2	20				
Batch number: 110471026001A	Sample number(s): 6206980,6206982-6206989 UNSPK: 6206985 BKG: 6206985								
Antimony	43*	51*	75-125	15	20	0.0974 J	0.177 J	58* (1)	20
Arsenic	166*	178*	75-125	3	20	3.82	4.90	25*	20
Beryllium	137*	146*	75-125	4	20	0.620	0.696	12	20
Cadmium	149*	151*	75-125	1	20	0.138	0.172	22* (1)	20
Chromium	174*	178*	75-125	1	20	16.0	18.0	12	20
Cobalt	153*	149*	75-125	3	20	6.23	5.69	9	20
Copper	155*	152*	75-125	1	20	8.36	9.37	11	20
Lead	181*	181*	75-125	0	20	7.29	7.98	9	20
Nickel	153*	160*	75-125	3	20	11.7	11.6	1	20
Silver	146*	144*	75-125	2	20	0.0317 J	0.0237 J	29* (1)	20
Thallium	144*	169*	75-125	10	20	0.336	0.347	3 (1)	20
Vanadium	202*	186*	75-125	3	20	32.0	35.0	9	20
Zinc	214 (2)	291 (2)	75-125	8	20	70.0	75.3	7	20
Batch number: 110471026001B	Sample number(s): 6206980,6206982-6206989 UNSPK: 6206985 BKG: 6206985								
Selenium	154*	132*	75-125	14	20	0.110 J	0.164 J	39* (1)	20
Batch number: 110471026001C	Sample number(s): 6206980,6206982-6206989 UNSPK: 6206985 BKG: 6206985								
Molybdenum	144*	152*	75-125	5	20	0.413	0.429	4 (1)	20
Batch number: 110471026001D	Sample number(s): 6206980,6206982-6206989 UNSPK: 6206985 BKG: 6206985								
Barium	204 (2)	226 (2)	75-125	2	20	109	103	6	20
Batch number: 110471848002	Sample number(s): 6206981 UNSPK: P206957 BKG: P206957								
Aluminum	119	125	75-125	2	20	3.72	3.75	1	20
Boron	92	95	88-111	4	20	0.180	0.180	0 (1)	20
Calcium	94	105	75-125	2	20	15.0	15.3	2	20
Iron	103	108	75-125	2	20	2.19	2.19	0	20
Lithium	96	99	75-125	3	20	0.0405	0.0338	18 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Magnesium	93	102	75-125	3	20	3.71	3.80	2	20
Manganese	95	98	75-125	3	20	0.0313	0.0315	1	20
Phosphorus	97	102	75-125	4	20	0.114	0.118	3 (1)	20
Potassium	97	101	75-125	2	20	12.1	12.3	2	20
Sodium	95 (2)	121 (2)	75-125	4	20	56.9	58.5	3	20
Strontium	95	99	90-110	3	20	0.0538	0.0536	0	20
Tin	93	96	86-118	4	20	0.0098 U	0.0098 U	0 (1)	20
Titanium	98	101	90-110	2	20	0.101	0.102	1	20
Zirconium	95	99	75-125	4	20	0.0206 U	0.0206 U	0 (1)	20
Batch number: 110475708001	Sample number(s): 6206980,6206982-6206989 UNSPK: 6206985 BKG: 6206985								
Aluminum	1804 (2)	1878 (2)	75-125	1	20	11,100	12,100	8	20
Boron	100	98	84-115	1	20	0.890 U	0.873 U	0 (1)	20
Calcium	104 (2)	118 (2)	75-125	3	20	1,830	1,880	3	20
Iron	153 (2)	3 (2)	75-125	1	20	15,900	15,800	1	20
Lithium	100	99	82-114	1	20	19.4	19.4	0	20
Magnesium	150 (2)	136 (2)	75-125	1	20	2,710	2,720	0	20
Manganese	138*	125	75-125	3	20	140	153	9	20
Phosphorus	98	84	75-125	4	20	325	327	1	20
Potassium	133*	117	75-125	4	20	2,800	2,870	2	20
Sodium	97	97	75-125	1	20	141	142	1 (1)	20
Strontium	98	98	75-115	0	20	13.3	14.9	11	20
Tin	93	92	80-110	1	20	13.1	2.63 J	133* (1)	20
Titanium	252 (2)	257 (2)	75-125	0	20	853	851	0	20
Zirconium	101	100	75-125	1	20	1.32 J	2.02 J	42* (1)	20
Batch number: 110475711001	Sample number(s): 6206980,6206982-6206989 UNSPK: 6206985 BKG: 6206985								
Mercury	99	102	65-135	0	20	0.0028 U	0.0027 U	0 (1)	20
Batch number: 110476050002A	Sample number(s): 6206981 UNSPK: P206957 BKG: P206957								
Arsenic	120	114	75-125	5	20	0.0048 U	0.0048 U	0 (1)	20
Beryllium	101	96	88-117	6	20	0.00013 U	0.00013 U	0 (1)	20
Cadmium	96	94	79-118	2	20	0.00020 U	0.00020 U	0 (1)	20
Chromium	91	94	83-116	2	20	0.0285	0.0293	3	20
Cobalt	90	92	75-125	2	20	0.00060	0.00053	12 (1)	20
Copper	90	93	84-116	3	20	0.0027	0.0027	1 (1)	20
Lead	100	100	83-120	0	20	0.0019	0.0019	3 (1)	20
Nickel	10 (2)	152 (2)	85-117	7	20	0.934	0.939	1	20
Silver	97	94	75-120	3	20	0.000080 U	0.000080 U	0 (1)	20
Thallium	102	101	85-114	1	20	0.00015 U	0.00015 U	0 (1)	20
Vanadium	90	91	75-125	1	20	0.0094	0.0087	8	20
Zinc	89	84	75-125	2	20	0.0518	0.0496	4 (1)	20
Batch number: 110476050002B	Sample number(s): 6206981 UNSPK: P206957 BKG: P206957								
Selenium	94	107	75-125	12	20	0.00092 J	0.00088 J	5 (1)	20
Batch number: 110476050002C	Sample number(s): 6206981 UNSPK: P206957 BKG: P206957								
Molybdenum	99	98	75-125	1	20	0.0026	0.0025	4	20
Batch number: 110476050002D	Sample number(s): 6206981 UNSPK: P206957 BKG: P206957								
Barium	101	99	75-125	2	20	0.0107	0.0103	4	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11054102202A	Sample number(s): 6206980,6206982-6206986,6206988-6206989 UNSPK: 6206985 BKG: 6206985										
21a Cyanide by 9012B	98		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11055191201B	Sample number(s): 6206980,6206982-6206986,6206988-6206989 UNSPK: 6206985 BKG: 6206985										
7a Perchlorate EPA 314.0	74*		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11055243201A	Sample number(s): 6206980,6206982-6206986,6206988-6206989 UNSPK: 6206985 BKG: 6206985										
3a Cr VI by EPA 7199	92		75-125			0.39	J	0.39	J	0 (1)	20
Batch number: 11059621202B	Sample number(s): 6206980,6206982-6206986,6206988-6206989 UNSPK: 6206985 BKG: 6206985										
11a Anions by 300.0 - Fluoride	66*		80-120			2.4		2.2		9 (1)	20
11a Anions by 300.0 - Nitrate	105		80-120			7.6		7.6		0	20
Batch number: 11049039401A	Sample number(s): 6206980,6206982-6206984 BKG: P205493										
22a pH by 9045C						8.24		8.24		0	1
Batch number: 11049039401B	Sample number(s): 6206985,6206988-6206989 BKG: 6206985										
22a pH by 9045C						7.00		7.00		0	1
Batch number: 11049182101A	Sample number(s): 6206980,6206982-6206984 BKG: P205493										
32a OR Potential						401		402		0	6
Batch number: 11049182101B	Sample number(s): 6206985,6206988-6206989 BKG: 6206985										
32a OR Potential						535		535		0	6
Batch number: 11061162401B	Sample number(s): 6206980,6206982-6206989 BKG: 6206985										
28a Moisture Content by 160.3						8.3		9.2		10	20
28a Moisture Content by 160.3						8.3		9.2		10	20
28a Moisture Content by 160.3						8.3		9.2		10	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6206980	113	105	97	86
6206982	113	106	96	89
6206983	117	111	99	87
6206984	114	106	99	84
6206985	116	109	96	87
6206986	103	102	106	104
6206987	103	105	105	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Surrogate Quality Control

6206989	112	105	98	87
Blank	115	110	96	87
LCS	105	104	105	107
MS	103	102	106	104
MSD	103	105	105	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110481AA

	Toluene-d8
6206981	96
6206990	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110482AA

	Toluene-d8
6206980	95
6206982	95
6206983	96
6206984	95
6206985	95
6206986	95
6206987	95
6206989	95
Blank	96
LCS	95
LCSD	95
MS	95
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6206981	101	102	104	99
6206990	101	101	105	99
Blank	102	103	105	99
LCS	103	105	106	100
LCSD	103	103	105	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11049WAA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6206981	111	87	107

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Surrogate Quality Control

Blank	108	95	112
LCS	113	98	104
LCSD	111	91	102
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11049WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6206981	54	34	102	80	86	79
Blank	58	37	99	83	88	81
LCS	61	39	103	84	92	85
LCSD	63	41	103	83	93	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11052SLE026

	N-Nitrosodimethylamine-d6
6206980	101
6206982	102
6206983	93
6206984	94
6206985	81
6206986	90
6206987	92
6206989	87
Blank	73
LCS	89
MS	90
MSD	92
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11052SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6206980	98	99	96	92	92	96
6206982	95	96	98	95	95	99
6206983	94	96	93	92	90	90
6206984	97	98	90	93	92	93
6206985	96	89	77	96	93	93
6206986	98	95	86	94	89	97
6206987	99	98	100	91	95	106
6206989	97	99	79	95	94	95
Blank	88	92	99	93	92	91
LCS	102	99	92	88	80	87
MS	98	95	86	94	89	97
MSD	99	98	100	91	95	106
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Surrogate Quality Control

Batch number: 11052SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6206980	93	83	102
6206982	91	82	96
6206983	89	82	104
6206984	96	86	103
6206985	89	82	99
6206986	98	89	99
6206987	94	86	100
6206989	90	87	107
Blank	95	80	100
LCS	101	85	98
MS	98	89	99
MSD	94	86	100
Limits:	40-130	45-130	45-135

Analysis Name: 19b NDMA by 1625C
Batch number: 11052WAB026

	N-Nitrosodimethylamine-d6
6206981	120
Blank	76
LCS	81
LCSD	81
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11048A34A

	Trifluorotoluene-F
6206980	78
6206982	82
6206983	70
6206984	77
6206985	80
6206986	81
6206987	82
6206989	78
Blank	80
LCS	87
MS	81
MSD	82
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11049A20A

	Trifluorotoluene-F
6206981	90
6206990	86
Blank	90
LCS	117

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Surrogate Quality Control

LCSD	116
Limits:	63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110470025A

	Butyraldehyde
6206980	85
6206982	80
6206983	85
6206984	81
6206985	82
6206986	87
6206987	95
6206989	89
Blank	104
LCS	93
MS	87
MSD	95
Limits:	64-126

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 110480018A

	Butyraldehyde
6206981	97
Blank	102
LCS	85
LCSD	85
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 110480037A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6206981	97	87
Blank	97	85
LCS	101	87
LCSD	100	83
Limits:	30-150	45-120

Analysis Name: 20b Energetics by 8330A
Batch number: 110500016A

	2-Nitro-m-xylene
6206981	74
Blank	81
LCS	89
LCSD	93
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Surrogate Quality Control

Batch number: 110520008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6206980	110	120
6206982	92	54
6206983	105	104
6206984	96	88
6206985	100	102
6206986	95	92
6206987	85	84
6206989	100	95
Blank	81	83
LCS	227*	216*
LCSD	88	98
MS	95	92
MSD	85	84
Limits:	53-139	45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 110530007A

	2-Nitro-m-xylene
6206980	111
6206982	102
6206983	108
6206984	118
6206985	97
6206986	104
6206987	108
6206989	122
Blank	116
LCS	130
LCSD	125
MS	104
MSD	108
Limits:	80-146

Analysis Name: 27a Glycols by 8015B
Batch number: 110470017A

	Tetramethylene glycol
6206980	73
6206982	89
6206983	79
6206984	84
6206985	80
6206986	95
6206987	97
6206989	51
Blank	87
LCS	95
MS	95
MSD	97
Limits:	29-137

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110470026A

	Chlorobenzene	Orthoterphenyl
6206980	87	101
6206982	71	85
6206983	69	87
6206984	82	94
6206985	64	85
6206986	76	92
6206987	78	97
6206989	74	86
Blank	73	94
LCS	78	95
MS	76	92
MSD	78	97
Limits:	37-125	47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 110470030A

	Acetone
6206980	85
6206982	87
6206983	86
6206984	88
6206985	83
6206986	87
6206987	85
6206989	84
Blank	97
LCS	98
MS	87
MSD	85
Limits:	42-138

Analysis Name: 25b Alcohols by 8015B
Batch number: 110480031A

	Acetone
6206981	107
Blank	104
LCS	103
MS	105
MSD	106
Limits:	54-147

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 110500004A

	Chlorobenzene	Orthoterphenyl
6206981	47	88
Blank	53	93

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233313
Reported: 03/15/11 at 06:00 PM

Surrogate Quality Control

LCS	54	95
LCSD	51	96
Limits:	28-152	52-131

Analysis Name: 26b Terphenyls by 8015B
Batch number: 110520017A

	n-Triacontane-d62
6206981	86
Blank	93
LCS	92
LCSD	81
Limits:	50-150

Analysis Name: 27b Glycols by 8015B
Batch number: 110530017A

	Tetramethylene glycol
6206981	97
Blank	97
LCS	103
MS	136
MSD	113
Limits:	10-164

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110530028A

	n-Triacontane-d62
6206980	87
6206982	75
6206983	100
6206984	83
6206985	77
6206986	85
6206987	81
6206989	75
Blank	80
LCS	78
MS	85
MSD	81
Limits:	50-150

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acct#13013 Cp# 1233313 sample# 6206980-90

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Ron Hartman

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCDs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199 @	Perchlorate Confirmation by EPA 6850 (10%)	*Explosives EPA 8330A (surface soil only)	*Pesticides EPA 8151 (surface soil only)	VOCs EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
DUP23-SA5B-QC-021511	2.15.2011	1451	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	FIELD DUPLICATE
DUP23-SA5B-QC-021511	2.15.2011	1451	SOIL	NONE	5-Encores											X	X	X											FIELD DUPLICATE
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	5-1L ambers			X	X	X										X									Rinsate - subsurface (Lot 50193)
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	3-1L ambers																		X	X		X			Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	HCl	11-40 mL VOA vials											X	X	X										X	Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	4-40 mL VOA vials																X					X			Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	1-500 mL poly		X				X	X							X										Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	NaOH	1-500 mL poly																				X				Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	HNO3	1-500 mL poly	X																							Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	1-250 mL glass																	X							Rinsate - subsurface (Lot 50229)
SL-323-SA5B-SB-11.0-12.0	2.15.2011	0857	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-323-SA5B-SB-11.5	2.15.2011	0852	SOIL	NONE	5-Encores											X	X	X											
SL-323-SA5B-SB-4.0-5.0	2.15.2011	0844	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-323-SA5B-SB-4.5	2.15.2011	0840	SOIL	NONE	5-Encores											X	X	X											
SL-327-SA5B-SB-4.0-5.0	2.15.2011	1149	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-327-SA5B-SB-4.5	2.15.2011	1144	SOIL	NONE	5-Encores											X	X	X											
SL-329-SA5B-SB-4.0-5.0MS	2.15.2011	1435	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-329-SA5B-SB-4.5 MS	2.15.2011	1430	SOIL	NONE	15-Encores											X	X	X											MS/MSD
SL-330-SA5B-SB-4.0-5.0	2.15.2011	1558	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-330-SA5B-SB-4.5	2.15.2011	1554	SOIL	NONE	5-Encores											X	X	X											
TB-021511	2.15.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature)

Date/Time: 02/15/2011 / 17:00

Received for Laboratory by: (Signature)

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature)

Date/Time: 2/16/11 / 0830

Airbill No.(s): 8695 1432 3004, ...3015, ...3129

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/16/2011
Group Number: 1233314
SDG: DX050
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP23-SA5B-QC-021511 Soil	6206991
EB30-SA5B-021511 Water	6206992
SL-323-SA5B-SB-11.0-12.0 Soil	6206993
SL-323-SA5B-SB-4.0-5.0 Soil	6206994
SL-327-SA5B-SB-4.0-5.0 Soil	6206995
SL-329-SA5B-SB-4.0-5.0 Soil	6206996
SL-329-SA5B-SB-4.0-5.0MS Soil	6206997
SL-329-SA5B-SB-4.0-5.0MSD Soil	6206998
SL-330-SA5B-SB-4.0-5.0 Soil	6206999

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206991
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5012 SDG#: DX050-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206991
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5012 SDG#: DX050-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0436	JQ	0.0315	1.09	1
11031	12378-PeCDD	40321-76-4	0.170	JQ	0.0419	5.45	1
11031	123478-HxCDD	39227-28-6	0.151	JQ	0.0784	5.45	1
11031	123678-HxCDD	57653-85-7	1.10	JB	0.0857	5.45	1
11031	123789-HxCDD	19408-74-3	0.509	JQ	0.0815	5.45	1
11031	1234678-HpCDD	35822-46-9	51.4	B	0.139	5.45	1
11031	OCDD	3268-87-9	754	B	0.269	10.9	1
11031	2378-TCDF	51207-31-9	0.109	JQ	0.0685	1.09	1
11031	12378-PeCDF	57117-41-6	0.187	JB	0.0383	5.45	1
11031	23478-PeCDF	57117-31-4	0.167	JB	0.0350	5.45	1
11031	123478-HxCDF	70648-26-9	0.249	JB	0.0574	5.45	1
11031	123678-HxCDF	57117-44-9	0.215	JB	0.0519	5.45	1
11031	123789-HxCDF	72918-21-9	0.185	JB	0.0538	5.45	1
11031	234678-HxCDF	60851-34-5	0.310	JB	0.0494	5.45	1
11031	1234678-HpCDF	67562-39-4	3.54	JB	0.0655	5.45	1
11031	1234789-HpCDF	55673-89-7	0.327	JB	0.0772	5.45	1
11031	OCDF	39001-02-0	9.69	JB	0.0947	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206991
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5012 SDG#: DX050-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP23-SA5B-QC-021511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP23-SA5B-QC-021511

LLI Sample # SW 6206991
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:51

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5012 SDG#: DX050-12FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11066001	03/09/2011 23:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11066001	03/07/2011 14:45	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206992
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5013 SDG#: DX050-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.157	U	0.157	2.13	1
10915	12378-PeCDD	40321-76-4	0.289	JBQ	0.191	10.6	1
10915	123478-HxCDD	39227-28-6	0.166	U	0.166	10.6	1
10915	123678-HxCDD	57653-85-7	0.168	U	0.168	10.6	1
10915	123789-HxCDD	19408-74-3	0.162	U	0.162	10.6	1
10915	1234678-HpCDD	35822-46-9	1.44	JB	0.197	10.6	1
10915	OCDD	3268-87-9	3.55	JBQ	0.249	21.3	1
10915	2378-TCDF	51207-31-9	0.115	U	0.115	2.13	1
10915	12378-PeCDF	57117-41-6	0.226	JBQ	0.101	10.6	1
10915	23478-PeCDF	57117-31-4	0.355	JB	0.0934	10.6	1
10915	123478-HxCDF	70648-26-9	0.300	JB	0.155	10.6	1
10915	123678-HxCDF	57117-44-9	0.125	U	0.125	10.6	1
10915	123789-HxCDF	72918-21-9	0.294	JBQ	0.116	10.6	1
10915	234678-HxCDF	60851-34-5	0.138	JBQ	0.108	10.6	1
10915	1234678-HpCDF	67562-39-4	0.237	JBQ	0.116	10.6	1
10915	1234789-HpCDF	55673-89-7	0.216	JB	0.118	10.6	1
10915	OCDF	39001-02-0	0.475	JBQ	0.178	21.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	47	25 - 164
13C12-12378-PeCDD	43	25 - 181
13C12-123478-HxCDD	41	32 - 141
13C12-123678-HxCDD	42	28 - 130
13C12-123789-HxCDD	43	28 - 130
13C12-1234678-HpCDD	42	23 - 140
13C12-OCDD	41	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	46	24 - 185
13C12-23478-PeCDF	47	21 - 178
13C12-123478-HxCDF	31	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	45	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	36	28 - 143
13C12-1234789-HpCDF	41	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB30-SA5B-021511 Water**
SSFL Area IV Collocated Soil Sampling
EB30-SA5B-021511

LLI Sample # WW 6206992
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 10:00

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5013 SDG#: DX050-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11049001	02/21/2011 21:13	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11049001	02/18/2011 07:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-323-SA5B-SB-11.0-12.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206993
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5014 SDG#: DX050-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-323-SA5B-SB-11.0-12.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206993
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5014 SDG#: DX050-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0414	J	0.0142	1.11	1
11031	12378-PeCDD	40321-76-4	0.369	J	0.0262	5.55	1
11031	123478-HxCDD	39227-28-6	0.516	JB	0.0964	5.55	1
11031	123678-HxCDD	57653-85-7	4.55	JB	0.0915	5.55	1
11031	123789-HxCDD	19408-74-3	2.02	J	0.0787	5.55	1
11031	1234678-HpCDD	35822-46-9	195	B	0.137	5.55	1
11031	OCDD	3268-87-9	2,610	B	0.182	11.1	1
11031	2378-TCDF	51207-31-9	2.89	B	0.233	1.11	1
11650	2378-TCDF-Conf	51207-31-9	2.05	B	0.0590	1.11	1
11031	12378-PeCDF	57117-41-6	0.566	JB	0.0799	5.55	1
11031	23478-PeCDF	57117-31-4	2.57	JB	0.0791	5.55	1
11031	123478-HxCDF	70648-26-9	2.01	JB	0.132	5.55	1
11031	123678-HxCDF	57117-44-9	0.883	JB	0.102	5.55	1
11031	123789-HxCDF	72918-21-9	0.226	JB	0.0646	5.55	1
11031	234678-HxCDF	60851-34-5	0.706	JB	0.0577	5.55	1
11031	1234678-HpCDF	67562-39-4	9.79	B	0.0999	5.55	1
11031	1234789-HpCDF	55673-89-7	1.79	JB	0.0792	5.55	1
11031	OCDF	39001-02-0	27.9	B	0.0533	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	83	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-323-SA5B-SB-11.0-12.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206993
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5014 SDG#: DX050-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-323-SA5B-SB-11.0-12.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-11.0-12.0

LLI Sample # SW 6206993
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:57

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5014 SDG#: DX050-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 14:35	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11052001	03/15/2011 21:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-323-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206994
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5015 SDG#: DX050-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-323-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206994
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5015 SDG#: DX050-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0123 U	0.0123	1.16	1
11031	12378-PeCDD	40321-76-4	0.0416 JQ	0.0143	5.82	1
11031	123478-HxCDD	39227-28-6	0.0443 JBQ	0.0298	5.82	1
11031	123678-HxCDD	57653-85-7	0.230 JBQ	0.0293	5.82	1
11031	123789-HxCDD	19408-74-3	0.240 J	0.0270	5.82	1
11031	1234678-HpCDD	35822-46-9	5.81 JB	0.0407	5.82	1
11031	OCDD	3268-87-9	81.0 B	0.0399	11.6	1
11031	2378-TCDF	51207-31-9	0.0361 JBQ	0.0201	1.16	1
11031	12378-PeCDF	57117-41-6	0.0712 JB	0.0147	5.82	1
11031	23478-PeCDF	57117-31-4	0.170 JBQ	0.0151	5.82	1
11031	123478-HxCDF	70648-26-9	0.214 JBQ	0.0354	5.82	1
11031	123678-HxCDF	57117-44-9	0.0709 JBQ	0.0256	5.82	1
11031	123789-HxCDF	72918-21-9	0.204 JB	0.0222	5.82	1
11031	234678-HxCDF	60851-34-5	0.0630 JB	0.0190	5.82	1
11031	1234678-HpCDF	67562-39-4	0.776 JB	0.0279	5.82	1
11031	1234789-HpCDF	55673-89-7	0.0755 JB	0.0331	5.82	1
11031	OCDF	39001-02-0	2.75 JB	0.0447	11.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-323-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206994
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5015 SDG#: DX050-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-323-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-323-SA5B-SB-4.0-5.0

LLI Sample # SW 6206994
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 08:44

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5015 SDG#: DX050-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 15:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-327-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206995
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5016 SDG#: DX050-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-327-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206995
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5016 SDG#: DX050-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0357	JQ	0.0131	1.09	1
11031	12378-PeCDD	40321-76-4	0.124	JQ	0.0290	5.43	1
11031	123478-HxCDD	39227-28-6	0.101	JBQ	0.0676	5.43	1
11031	123678-HxCDD	57653-85-7	1.78	JB	0.0596	5.43	1
11031	123789-HxCDD	19408-74-3	1.56	J	0.0460	5.43	1
11031	1234678-HpCDD	35822-46-9	21.0	B	0.0805	5.43	1
11031	OCDD	3268-87-9	401	B	0.0982	10.9	1
11031	2378-TCDF	51207-31-9	0.0990	JBQ	0.0180	1.09	1
11031	12378-PeCDF	57117-41-6	0.152	JB	0.0147	5.43	1
11031	23478-PeCDF	57117-31-4	0.0152	U	0.0152	5.43	1
11031	123478-HxCDF	70648-26-9	0.221	JBQ	0.0697	5.43	1
11031	123678-HxCDF	57117-44-9	0.647	JB	0.0515	5.43	1
11031	123789-HxCDF	72918-21-9	0.169	JB	0.0258	5.43	1
11031	234678-HxCDF	60851-34-5	0.151	JB	0.0221	5.43	1
11031	1234678-HpCDF	67562-39-4	2.45	JB	0.0872	5.43	1
11031	1234789-HpCDF	55673-89-7	0.188	JB	0.0510	5.43	1
11031	OCDF	39001-02-0	9.13	JB	0.0347	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	30	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-327-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206995
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5016 SDG#: DX050-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-327-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-327-SA5B-SB-4.0-5.0

LLI Sample # SW 6206995
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 11:49

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5016 SDG#: DX050-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 16:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206996
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-329-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206996
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0219	JQ	0.0104	1.09	1
11031	12378-PeCDD	40321-76-4	0.0422	JQ	0.0126	5.45	1
11031	123478-HxCDD	39227-28-6	0.0213	U	0.0213	5.45	1
11031	123678-HxCDD	57653-85-7	0.161	JB	0.0214	5.45	1
11031	123789-HxCDD	19408-74-3	0.239	J	0.0204	5.45	1
11031	1234678-HpCDD	35822-46-9	0.387	JB	0.0237	5.45	1
11031	OCDD	3268-87-9	2.61	JB	0.0418	10.9	1
11031	2378-TCDF	51207-31-9	0.0381	JBQ	0.0108	1.09	1
11031	12378-PeCDF	57117-41-6	0.0669	JBQ	0.00731	5.45	1
11031	23478-PeCDF	57117-31-4	0.132	JB	0.00731	5.45	1
11031	123478-HxCDF	70648-26-9	0.0280	JBQ	0.0174	5.45	1
11031	123678-HxCDF	57117-44-9	0.0687	JB	0.0129	5.45	1
11031	123789-HxCDF	72918-21-9	0.105	JBQ	0.0141	5.45	1
11031	234678-HxCDF	60851-34-5	0.0593	JB	0.0108	5.45	1
11031	1234678-HpCDF	67562-39-4	0.0936	JB	0.0103	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0141	U	0.0141	5.45	1
11031	OCDF	39001-02-0	0.222	JB	0.0289	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206996
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206996
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 17:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206997
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-329-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206997
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.6		0.0158	1.09	1
11031	12378-PeCDD	40321-76-4	120		0.0228	5.45	1
11031	123478-HxCDD	39227-28-6	116	B	0.0439	5.45	1
11031	123678-HxCDD	57653-85-7	117	B	0.0435	5.45	1
11031	123789-HxCDD	19408-74-3	117		0.0402	5.45	1
11031	1234678-HpCDD	35822-46-9	116	B	0.0542	5.45	1
11031	OCDD	3268-87-9	249	B	0.0465	10.9	1
11031	2378-TCDF	51207-31-9	25.4	B	0.0253	1.09	1
11031	12378-PeCDF	57117-41-6	115	B	0.0196	5.45	1
11031	23478-PeCDF	57117-31-4	116	B	0.0200	5.45	1
11031	123478-HxCDF	70648-26-9	114	B	0.139	5.45	1
11031	123678-HxCDF	57117-44-9	114	B	0.102	5.45	1
11031	123789-HxCDF	72918-21-9	113	B	0.0826	5.45	1
11031	234678-HxCDF	60851-34-5	116	B	0.0712	5.45	1
11031	1234678-HpCDF	67562-39-4	115	B	0.0515	5.45	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0511	5.45	1
11031	OCDF	39001-02-0	227	B	0.0439	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	101	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206997
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206997
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 18:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206998
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-329-SA5B-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206998
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.4		0.0200	1.09	1
11031	12378-PeCDD	40321-76-4	119		0.0255	5.45	1
11031	123478-HxCDD	39227-28-6	117	B	0.0583	5.45	1
11031	123678-HxCDD	57653-85-7	116	B	0.0607	5.45	1
11031	123789-HxCDD	19408-74-3	116		0.0575	5.45	1
11031	1234678-HpCDD	35822-46-9	115	B	0.0497	5.45	1
11031	OCDD	3268-87-9	228	B	0.0494	10.9	1
11031	2378-TCDF	51207-31-9	25.4	B	0.0278	1.09	1
11031	12378-PeCDF	57117-41-6	115	B	0.0222	5.45	1
11031	23478-PeCDF	57117-31-4	117	B	0.0227	5.45	1
11031	123478-HxCDF	70648-26-9	115	B	0.0576	5.45	1
11031	123678-HxCDF	57117-44-9	114	B	0.0473	5.45	1
11031	123789-HxCDF	72918-21-9	113	B	0.0545	5.45	1
11031	234678-HxCDF	60851-34-5	113	B	0.0489	5.45	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0432	5.45	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0606	5.45	1
11031	OCDF	39001-02-0	224	B	0.0467	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206998
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-329-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-329-SA5B-SB-4.0-5.0

LLI Sample # SW 6206998
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 14:35

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5017 SDG#: DX050-17MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 19:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-330-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206999
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5018 SDG#: DX050-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-330-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206999
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5018 SDG#: DX050-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0120	U	0.0120	1.12	1
11031	12378-PeCDD	40321-76-4	0.0542	J	0.0125	5.62	1
11031	123478-HxCDD	39227-28-6	0.0417	JB	0.0214	5.62	1
11031	123678-HxCDD	57653-85-7	0.0805	JB	0.0200	5.62	1
11031	123789-HxCDD	19408-74-3	0.159	JQ	0.0178	5.62	1
11031	1234678-HpCDD	35822-46-9	0.534	JB	0.0252	5.62	1
11031	OCDD	3268-87-9	2.68	JB	0.0372	11.2	1
11031	2378-TCDF	51207-31-9	0.0234	JBQ	0.00889	1.12	1
11031	12378-PeCDF	57117-41-6	0.0573	JB	0.00664	5.62	1
11031	23478-PeCDF	57117-31-4	0.0692	JB	0.00675	5.62	1
11031	123478-HxCDF	70648-26-9	0.0721	JB	0.0222	5.62	1
11031	123678-HxCDF	57117-44-9	0.0813	JBQ	0.0159	5.62	1
11031	123789-HxCDF	72918-21-9	0.120	JB	0.0111	5.62	1
11031	234678-HxCDF	60851-34-5	0.0366	JBQ	0.00900	5.62	1
11031	1234678-HpCDF	67562-39-4	0.0879	JB	0.0136	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0475	JBQ	0.0129	5.62	1
11031	OCDF	39001-02-0	0.170	JB	0.0244	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-330-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206999
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5018 SDG#: DX050-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-330-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-330-SA5B-SB-4.0-5.0

LLI Sample # SW 6206999
LLI Group # 1233314
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/15/2011 15:58

Submitted: 02/16/2011 09:00
Reported: 03/18/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5018 SDG#: DX050-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11052001	02/26/2011 20:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11052001	02/21/2011 15:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233314
Reported: 03/18/11 at 09:00 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11061162401B	Sample number(s): 6206991,6206993-6206999								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11049001	Sample number(s): 6206992								
2378-TCDD	0.139 J	0.103	2.00	pg/l	102		67-158		
12378-PeCDD	0.317 J	0.0969	10.0	pg/l	99		70-142		
123478-HxCDD	0.172 J	0.107	10.0	pg/l	100		70-164		
123678-HxCDD	0.274 J	0.110	10.0	pg/l	100		76-134		
123789-HxCDD	0.378 J	0.101	10.0	pg/l	98		64-162		
1234678-HpCDD	1.49 J	0.126	10.0	pg/l	99		70-140		
OCDD	2.53 J	0.165	20.0	pg/l	99		78-144		
2378-TCDF	0.102 J	0.0819	2.00	pg/l	103		75-158		
12378-PeCDF	0.386 J	0.0698	10.0	pg/l	96		80-134		
23478-PeCDF	0.504 J	0.0666	10.0	pg/l	97		68-160		
123478-HxCDF	0.289 J	0.0967	10.0	pg/l	96		72-134		
123678-HxCDF	0.240 J	0.0786	10.0	pg/l	97		84-130		
123789-HxCDF	0.377 J	0.0802	10.0	pg/l	95		78-130		
234678-HxCDF	0.378 J	0.0732	10.0	pg/l	98		70-156		
1234678-HpCDF	0.492 J	0.0742	10.0	pg/l	99		82-122		
1234789-HpCDF	0.481 J	0.0804	10.0	pg/l	97		78-138		
OCDF	0.777 J	0.113	20.0	pg/l	97		63-170		
Batch number: 11052001	Sample number(s): 6206993-6206999								
2378-TCDD	0.0111 U	0.0111	1.00	ng/kg	112		67-158		
12378-PeCDD	0.00790 U	0.00790	5.00	ng/kg	114		70-142		
123478-HxCDD	0.00913 J	0.00870	5.00	ng/kg	112		70-164		
123678-HxCDD	0.0152 J	0.00900	5.00	ng/kg	109		76-134		
123789-HxCDD	0.00860 U	0.00860	5.00	ng/kg	109		64-162		
1234678-HpCDD	0.154 J	0.0103	5.00	ng/kg	106		70-140		
OCDD	0.286 J	0.0148	10.0	ng/kg	104		78-144		
2378-TCDF	0.0160 J	0.00720	1.00	ng/kg	123		75-158		
2378-TCDF-Conf	0.0517 J	0.0199	1.00	ng/kg					
12378-PeCDF	0.0225 J	0.00500	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0499 J	0.00500	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0339 J	0.00560	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0145 J	0.00470	5.00	ng/kg	108		84-130		
123789-HxCDF	0.0329 J	0.00550	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0128 J	0.00470	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.0408 J	0.00500	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0129 J	0.00720	5.00	ng/kg	104		78-138		
OCDF	0.0988 J	0.0122	10.0	ng/kg	103		63-170		
Batch number: 11066001	Sample number(s): 6206991								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233314
Reported: 03/18/11 at 09:00 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
2378-TCDD	0.0229 U	0.0229	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0216 U	0.0216	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0166 U	0.0166	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0262 J	0.0173	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0165 U	0.0165	5.00	ng/kg	104		64-162		
1234678-HpCDD	0.120 J	0.0211	5.00	ng/kg	102		70-140		
OCDD	0.362 J	0.0245	10.0	ng/kg	102		78-144		
2378-TCDF	0.0235 U	0.0235	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0237 J	0.0132	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0628 J	0.0145	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0168 J	0.0112	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0321 J	0.00960	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0403 J	0.0117	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0395 J	0.0103	5.00	ng/kg	105		70-156		
1234678-HpCDF	0.0665 J	0.00770	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0298 J	0.0128	5.00	ng/kg	103		78-138		
OCDF	0.191 J	0.0330	10.0	ng/kg	104		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11061162401B	Sample number(s): 6206991,6206993-6206999 BKG: P206985								
28a Moisture Content by 160.3						8.3	9.2	10	20
Batch number: 11052001	Sample number(s): 6206993-6206999 UNSPK: 6206996								
2378-TCDD	108	107	67-158	1	25				
12378-PeCDD	110	109	70-142	1	25				
123478-HxCDD	106	107	70-164	1	25				
123678-HxCDD	107	107	76-134	0	25				
123789-HxCDD	107	106	64-162	0	25				
1234678-HpCDD	106	105	70-140	1	25				
OCDD	113	103	78-144	9	25				
2378-TCDF	116	116	75-158	0	25				
12378-PeCDF	106	105	80-134	0	25				
23478-PeCDF	106	108	68-160	1	25				
123478-HxCDF	104	106	72-134	1	25				
123678-HxCDF	105	104	84-130	1	25				
123789-HxCDF	104	103	78-130	0	25				
234678-HxCDF	106	104	70-156	2	25				
1234678-HpCDF	105	101	82-122	3	25				
1234789-HpCDF	102	102	78-138	0	25				
OCDF	104	103	63-170	1	25				
Batch number: 11066001	Sample number(s): 6206991 UNSPK: P217822								
2378-TCDD	98	97	67-158	1	25				
12378-PeCDD	101	104	70-142	4	25				
123478-HxCDD	100	100	70-164	0	25				
123678-HxCDD	102	103	76-134	1	25				
123789-HxCDD	101	101	64-162	0	25				
1234678-HpCDD	101	102	70-140	0	25				
OCDD	130	114	78-144	9	25				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233314
Reported: 03/18/11 at 09:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	105	104	75-158	1	25				
12378-PeCDF	101	102	80-134	0	25				
23478-PeCDF	101	102	68-160	0	25				
123478-HxCDF	102	102	72-134	1	25				
123678-HxCDF	100	104	84-130	3	25				
123789-HxCDF	101	103	78-130	2	25				
234678-HxCDF	102	106	70-156	4	25				
1234678-HpCDF	101	103	82-122	2	25				
1234789-HpCDF	101	103	78-138	3	25				
OCDF	93	94	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11049001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6206992	47	47	31	37	45	44
Blank	75	78	58	69	76	73
OPR	74	79	63	69	79	84
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6206992	36	41	40	88	43	41
Blank	63	67	60	98	72	72
OPR	68	74	69	88	76	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6206992	42	43	42	41	56	46
Blank	71	72	68	61	83	77
OPR	73	75	73	68	82	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11052001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6206993	78	85	38	50	84	81
6206994	76	85	45	62	82	73
6206995	79	80	28	36	83	78

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233314
Reported: 03/18/11 at 09:00 AM

Surrogate Quality Control

6206996	76	86	54	70	83	70
6206997	84	97	47	60	89	84
6206998	73	82	66	79	79	76
6206999	71	81	34	47	79	70
Blank	76	97	80	94	91	88
MS	84	97	47	60	89	84
MSD	73	82	66	79	79	76
OPR	73	91	68	81	85	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6206993	41	62	47	90	79	63
6206994	58	59	46	89	81	70
6206995	30	61	43	87	76	54
6206996	66	55	41	91	81	75
6206997	62	72	60	101	92	75
6206998	77	61	49	91	77	75
6206999	45	57	42	88	76	61
Blank	96	76	66	102	90	84
MS	62	72	60	101	92	75
MSD	77	61	49	91	77	75
OPR	84	71	62	91	82	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6206993	69	75	61	49	90	89
6206994	75	76	65	53	85	92
6206995	60	75	59	46	89	87
6206996	76	77	64	49	85	95
6206997	78	83	76	67	92	103
6206998	74	74	65	55	81	89
6206999	68	75	63	50	80	90
Blank	85	84	81	72	85	105
MS	78	83	76	67	92	103
MSD	74	74	65	55	81	89
OPR	79	78	76	68	81	96
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6206993	83					
6206994						
6206995						
6206996						
6206997						
6206998						
6206999						
Blank	76					
MS						
MSD						
OPR						

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233314
Reported: 03/18/11 at 09:00 AM

Surrogate Quality Control

Limits: 24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11066001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6206991	82	87	79	82	84	83
Blank	73	74	66	77	68	67
MS	80	83	78	88	79	68
MSD	77	80	75	81	77	72
OPR	82	84	59	77	77	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6206991	70	64	43	93	90	90
Blank	84	58	53	87	84	78
MS	80	57	41	95	90	84
MSD	76	63	49	84	80	82
OPR	75	65	57	90	88	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6206991	82	86	68	47	83	88
Blank	77	77	72	66	68	89
MS	83	81	68	53	77	95
MSD	80	78	68	56	75	87
OPR	81	81	74	68	78	95
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 QP# 1233314 Sample# 6206991-99

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: [signature]

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex. Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP23-SA5B-QC-021511	2.15.2011	1451	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	FIELD DUPLICATE
DUP23-SA5B-QC-021511	2.15.2011	1451	SOIL	NONE	5-Encores											X	X	X											FIELD DUPLICATE
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	5-1L ambers			X	X	X										X									Rinsate - subsurface (Lot 50193)
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	3-1L ambers																		X	X		X			Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	HCl	11-40 mL VOA vials											X	X	X										X	Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	4-40 mL VOA vials																X						X		Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	1-500 mL poly		X				X	X							X										Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	NaOH	1-500 mL poly																				X				Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	HNO3	1-500 mL poly	X																							Rinsate - subsurface (Lot 50229)
EB30-SA5B-021511	2.15.2011	1000	WATER	NONE	1-250 mL glass																	X							Rinsate - subsurface (Lot 50229)
SL-323-SA5B-SB-11.0-12.0	2.15.2011	0857	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-323-SA5B-SB-11.5	2.15.2011	0852	SOIL	NONE	5-Encores											X	X	X											
SL-323-SA5B-SB-4.0-5.0	2.15.2011	0844	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-323-SA5B-SB-4.5	2.15.2011	0840	SOIL	NONE	5-Encores											X	X	X											
SL-327-SA5B-SB-4.0-5.0	2.15.2011	1149	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-327-SA5B-SB-4.5	2.15.2011	1144	SOIL	NONE	5-Encores											X	X	X											
SL-329-SA5B-SB-4.0-5.0MS	2.15.2011	1435	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-329-SA5B-SB-4.5 MS	2.15.2011	1430	SOIL	NONE	15-Encores											X	X	X											MS/MSD
SL-330-SA5B-SB-4.0-5.0	2.15.2011	1558	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-330-SA5B-SB-4.5	2.15.2011	1554	SOIL	NONE	5-Encores											X	X	X											
TB-021511	2.15.2011	0900	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature) [signature] — Date/Time: 02/15/2011 / 17:00 — Received for Laboratory by: (Signature)

Received by: (Signature) [signature] — Date/Time: 2/16/11 0910 — Airbill No.(s): 8695 1432 3004, ...3015, ...3129

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/17/2011
Group Number: 1233566
SDG: DE083
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA5A-SS-0.0-0.5 Soil	6208342
SL-025-SA5A-SS-0.0-0.5 Soil	6208343
SL-026-SA5A-SS-0.0-0.5 Soil	6208344
SL-028-SA5A-SS-0.0-0.5 Soil	6208345
SL-029-SA5A-SS-0.0-0.5 Soil	6208346
SL-031-SA5A-SS-0.0-0.5 Soil	6208347
SL-032-SA5A-SS-0.0-0.5 Soil	6208348
SL-041-SA5A-SS-0.0-0.5 Soil	6208349
SL-332-SA5B-SB-4.0-5.0 Soil	6208350
SL-333-SA5B-SB-4.0-5.0 Soil	6208351
SL-335-SA5B-SB-2.0-3.0 Soil	6208352
TB-021611 Water	6208353

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	25	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.61	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.6		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.2		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	9.6	J	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	10	J	6.5	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.5	20		1
10138	Fluoranthene	206-44-0	5.0		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.1		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	28		6.5	20		1
10138	Phenanthrene	85-01-8	2.0		0.73	1.8		1
10138	Pyrene	129-00-0	4.6		0.73	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	12	U	12	12		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	1,100	U	1,100	1,100		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.31		0.082	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	1.7		0.072	0.37		1
01363	p,p-DDT	50-29-3	1.4		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.17	J	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.22	J	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.091	U	0.091	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to an error during the preparation of the sample, TCX and DCB are not present in the method blank and LCS. Due to insufficient sample volume a reextraction could not be performed. The client was notified and the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: endrin aldehyde.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2		2
10225	Aroclor 5460	11126-42-4	12		2.2	7.2		2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7		2
10225	PCB-1221	11104-28-2	0.72	U	0.72	3.7		2
10225	PCB-1232	11141-16-5	0.72	U	0.72	3.7		2
10225	PCB-1242	53469-21-9	0.72	U	0.72	3.7		2

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Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.72	U	0.72	3.7		2
10225	PCB-1254	11097-69-1	5.7		0.72	3.7		2
10225	PCB-1260	11096-82-5	14		0.85	3.7		2
10225	PCB-1262	37324-23-5	0.72	U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72	U	0.72	3.7		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.31	21.1		1
07914	Boron	7440-42-8	1.90	J	0.940	5.28		1
01650	Calcium	7440-70-2	2,340		6.48	21.1		1
01654	Iron	7439-89-6	16,800		4.98	21.1		1
01656	Lithium	7439-93-2	20.7		0.23	2.1		1
01657	Magnesium	7439-95-4	3,620		2.68	10.6		1
06958	Manganese	7439-96-5	319		0.0824	0.528		1
10145	Phosphorus	7723-14-0	455		0.592	10.6		1
01662	Potassium	7440-09-7	3,260		19.0	52.8		1
01667	Sodium	7440-23-5	67.6	J	39.4	106		1
07968	Strontium	7440-24-6	18.2		0.0655	0.528		1
06969	Tin	7440-31-5	2.59	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,110		0.401	1.06		1
10146	Zirconium	7440-67-7	2.20	J	0.887	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.306		0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.24		0.0853	0.427		2
06126	Barium	7440-39-3	142		0.115	0.427		2
06127	Beryllium	7440-41-7	0.578		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.298		0.0427	0.107		2
06131	Chromium	7440-47-3	26.5		0.128	0.427		2
06132	Cobalt	7440-48-4	8.39		0.0213	0.107		2
06133	Copper	7440-50-8	15.3		0.0704	0.427		2
06135	Lead	7439-92-1	22.0		0.0111	0.213		2
06138	Molybdenum	7439-98-7	1.08		0.0533	0.107		2
06139	Nickel	7440-02-0	17.7		0.107	0.427		2
06141	Selenium	7782-49-2	0.253	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0856	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.398		0.0320	0.107		2
06148	Vanadium	7440-62-2	51.9		0.0235	0.107		2
06149	Zinc	7440-66-6	89.9		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.87	1.1		1

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Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

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E8301 SDG#: DE083-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	582		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 21:01	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 01:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	02/28/2011 21:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110520010A	02/25/2011 21:22	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 07:44	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110520010A	02/21/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8301 SDG#: DE083-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 05:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 02:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 11:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	03/02/2011 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 11:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 11:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 11:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 17:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 14:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11053243201A	02/23/2011 13:09	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	Carrie E Miller	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208342
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8301 SDG#: DE083-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-025-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.83	J	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.93	J	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.9	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.9		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	8.8	J	7.0	21		1
10138	Chrysene	218-01-9	2.4		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	7.0	21		1
10138	Fluoranthene	206-44-0	2.4		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.95	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.5	J	0.78	1.9		1
10138	Pyrene	129-00-0	2.4		0.78	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	8.2	U	8.2	8.2		1
10401	Dicamba	1918-00-9	0.48	J	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	870		89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	1.9	U	1.9	4.0		1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.40		1
01363	p,p-DDE	72-55-9	0.85		0.077	0.40		1
01363	p,p-DDT	50-29-3	1.5		0.077	0.40		1
01363	Delta BHC	319-86-8	0.059	J	0.042	0.19		1
01363	Dieldrin	60-57-1	0.18	J	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.16	J	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.32	J	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for p,p-DDD represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7		2
10225	Aroclor 5460	11126-42-4	10		2.3	7.7		2
10225	PCB-1016	12674-11-2	0.77	U	0.77	4.0		2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0		2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0		2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0		2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0		2
10225	PCB-1254	11097-69-1	0.77	U	0.77	4.0		2
10225	PCB-1260	11096-82-5	6.2		0.91	4.0		2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0		2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.75	22.9		1
07914	Boron	7440-42-8	3.37	J	1.02	5.71		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,130		7.00	22.9		1
01654	Iron	7439-89-6	18,300		5.38	22.9		1
01656	Lithium	7439-93-2	20.3		0.25	2.3		1
01657	Magnesium	7439-95-4	3,850		2.90	11.4		1
06958	Manganese	7439-96-5	375		0.0891	0.571		1
10145	Phosphorus	7723-14-0	341		0.640	11.4		1
01662	Potassium	7440-09-7	3,490		20.6	57.1		1
01667	Sodium	7440-23-5	81.4	J	42.6	114		1
07968	Strontium	7440-24-6	26.1		0.0708	0.571		1
06969	Tin	7440-31-5	2.80	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,270		0.434	1.14		1
10146	Zirconium	7440-67-7	2.33	J	0.960	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.226	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.77		0.0905	0.453		2
06126	Barium	7440-39-3	173		0.122	0.453		2
06127	Beryllium	7440-41-7	0.531		0.0181	0.113		2
06128	Cadmium	7440-43-9	4.60		0.0453	0.113		2
06131	Chromium	7440-47-3	32.4		0.136	0.453		2
06132	Cobalt	7440-48-4	9.76		0.0226	0.113		2
06133	Copper	7440-50-8	18.3		0.0747	0.453		2
06135	Lead	7439-92-1	36.1		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.695		0.0566	0.113		2
06139	Nickel	7440-02-0	26.5		0.113	0.453		2
06141	Selenium	7782-49-2	0.270	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.161		0.0136	0.113		2
06145	Thallium	7440-28-0	0.409		0.0339	0.113		2
06148	Vanadium	7440-62-2	54.5		0.0249	0.113		2
06149	Zinc	7440-66-6	138		0.634	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0221	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8302 SDG#: DE083-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	567	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.73	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 21:26	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 03:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 13:24	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 08:36	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 01:10	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:17	Tara L Snyder	1

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Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208343
LLI Group # 1233566
Account # 13013

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E8302 SDG#: DE083-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	03/02/2011 13:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 16:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 15:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 13:15	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	72	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	41	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.82	J	0.37	1.9		1
10138	Anthracene	120-12-7	1.4	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	5.9		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.8		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	25		6.7	20		1
10138	Chrysene	218-01-9	12		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.5		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33		6.7	20		1
10138	Fluoranthene	206-44-0	6.5		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.9		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.81	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.87	J	0.75	1.9		1
10138	Naphthalene	91-20-3	0.89	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	3.1		0.75	1.9		1
10138	Pyrene	129-00-0	5.9		0.75	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	8.1	U	8.1	8.1		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	1,100	U	1,100	1,100		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.056	J	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.10	J	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.32	J	0.074	0.38		1
01363	p,p-DDT	50-29-3	1.6		0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.13	J	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.20	J	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.14	U	0.14	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.23	J	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for endrin ketone represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	7.1		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	7.2		0.37	1.9		1
10225	PCB-1260	11096-82-5	6.1		0.44	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The DCB surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.48	21.8		1
07914	Boron	7440-42-8	1.55	J	0.970	5.45		1
01650	Calcium	7440-70-2	2,760		6.68	21.8		1
01654	Iron	7439-89-6	18,200		5.13	21.8		1
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,180		2.77	10.9		1
06958	Manganese	7439-96-5	272		0.0850	0.545		1
10145	Phosphorus	7723-14-0	389		0.610	10.9		1
01662	Potassium	7440-09-7	3,100		19.6	54.5		1
01667	Sodium	7440-23-5	90.1	J	40.6	109		1
07968	Strontium	7440-24-6	17.1		0.0676	0.545		1
06969	Tin	7440-31-5	2.88	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,190		0.414	1.09		1
10146	Zirconium	7440-67-7	1.78	J	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.283		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.40		0.0863	0.432		2
06126	Barium	7440-39-3	138		0.117	0.432		2
06127	Beryllium	7440-41-7	0.444		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.222		0.0432	0.108		2
06131	Chromium	7440-47-3	27.4		0.130	0.432		2
06132	Cobalt	7440-48-4	8.67		0.0216	0.108		2
06133	Copper	7440-50-8	13.7		0.0712	0.432		2
06135	Lead	7439-92-1	26.2		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.738		0.0540	0.108		2
06139	Nickel	7440-02-0	16.3		0.108	0.432		2
06141	Selenium	7782-49-2	0.133	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0551	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.376		0.0324	0.108		2
06148	Vanadium	7440-62-2	56.9		0.0237	0.108		2
06149	Zinc	7440-66-6	92.2		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0438	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-026-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8303 SDG#: DE083-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	555		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.24		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	10.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011	21:51	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011	03:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011	13:51	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011	14:59	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011	08:50	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011	01:33	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011	06:00	Joseph S Feister	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8303 SDG#: DE083-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	03/02/2011 13:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 17:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 15:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 13:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208344
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8303 SDG#: DE083-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 20 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.3	J	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	5.8	U	5.8	5.8		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	170	J	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does

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Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. MCPP was detected in the method blank at a concentration of 347 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction were within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.083	J	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.36	21.3		1
07914	Boron	7440-42-8	2.54	J	0.949	5.33		1
01650	Calcium	7440-70-2	3,040		6.53	21.3		1
01654	Iron	7439-89-6	17,100		5.02	21.3		1
01656	Lithium	7439-93-2	17.1		0.23	2.1		1
01657	Magnesium	7439-95-4	3,560		2.71	10.7		1
06958	Manganese	7439-96-5	343		0.0831	0.533		1
10145	Phosphorus	7723-14-0	240		0.597	10.7		1
01662	Potassium	7440-09-7	3,520		19.2	53.3		1
01667	Sodium	7440-23-5	81.4	J	39.8	107		1
07968	Strontium	7440-24-6	23.2		0.0661	0.533		1
06969	Tin	7440-31-5	2.61	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,240		0.405	1.07		1
10146	Zirconium	7440-67-7	2.24	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.209	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.46		0.0887	0.443		2
06126	Barium	7440-39-3	148		0.120	0.443		2
06127	Beryllium	7440-41-7	0.537		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.413		0.0443	0.111		2
06131	Chromium	7440-47-3	28.0		0.133	0.443		2
06132	Cobalt	7440-48-4	9.41		0.0222	0.111		2
06133	Copper	7440-50-8	15.1		0.0732	0.443		2
06135	Lead	7439-92-1	9.21		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.949		0.0554	0.111		2
06139	Nickel	7440-02-0	17.6		0.111	0.443		2
06141	Selenium	7782-49-2	0.196	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0480	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.421		0.0333	0.111		2
06148	Vanadium	7440-62-2	51.3		0.0244	0.111		2
06149	Zinc	7440-66-6	71.8		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1

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Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8304 SDG#: DE083-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	470	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.13	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 22:16	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 04:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	02/28/2011 19:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 09:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 01:57	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1

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Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208345
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

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E8304 SDG#: DE083-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:22	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 17:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 16:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11053243201A	02/23/2011 14:00	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Sample Description: SL-029-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-029-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.69	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	4.6		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	4.7		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	7.6		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	4.6		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.0		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	19	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.8	20		1
10138	Chrysene	218-01-9	6.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.91	J	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6,000		680	2,000		100
10138	Fluoranthene	206-44-0	6.6		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	77		6.8	20		1
10138	Phenanthrene	85-01-8	2.3		0.76	1.9		1
10138	Pyrene	129-00-0	6.2		0.76	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	4.3	U	4.3	4.3		1
10401	Dicamba	1918-00-9	0.92	J	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	570		86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

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E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.11	U	0.11	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.6	U	1.6	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.15	J	0.075	0.39		1
01363	p,p-DDT	50-29-3	0.37	J	0.075	0.39		1
01363	Delta BHC	319-86-8	0.077	U	0.077	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.075	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.23	J	0.075	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram, the values reported for beta-BHC and delta-BHC represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5		2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.5		2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.8		2
10225	PCB-1221	11104-28-2	0.75	U	0.75	3.8		2
10225	PCB-1232	11141-16-5	0.75	U	0.75	3.8		2
10225	PCB-1242	53469-21-9	0.75	U	0.75	3.8		2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.8		2
10225	PCB-1254	11097-69-1	0.75	U	0.75	3.8		2
10225	PCB-1260	11096-82-5	1.4	J	0.88	3.8		2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.8		2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.8		2
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-029-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.64	22.4		1
07914	Boron	7440-42-8	2.67	J	0.998	5.61		1
01650	Calcium	7440-70-2	4,550		6.87	22.4		1
01654	Iron	7439-89-6	18,700		5.28	22.4		1
01656	Lithium	7439-93-2	20.7		0.25	2.2		1
01657	Magnesium	7439-95-4	4,070		2.85	11.2		1
06958	Manganese	7439-96-5	343		0.0875	0.561		1
10145	Phosphorus	7723-14-0	314		0.628	11.2		1
01662	Potassium	7440-09-7	3,370		20.2	56.1		1
01667	Sodium	7440-23-5	99.5	J	41.8	112		1
07968	Strontium	7440-24-6	25.8		0.0695	0.561		1
06969	Tin	7440-31-5	2.55	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,280		0.426	1.12		1
10146	Zirconium	7440-67-7	2.46	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.10		0.0880	0.440		2
06126	Barium	7440-39-3	119		0.119	0.440		2
06127	Beryllium	7440-41-7	0.495		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.165		0.0440	0.110		2
06131	Chromium	7440-47-3	25.6		0.132	0.440		2
06132	Cobalt	7440-48-4	7.58		0.0220	0.110		2
06133	Copper	7440-50-8	13.0		0.0726	0.440		2
06135	Lead	7439-92-1	12.8		0.0114	0.220		2
06138	Molybdenum	7439-98-7	1.00		0.0550	0.110		2
06139	Nickel	7440-02-0	15.0		0.110	0.440		2
06141	Selenium	7782-49-2	0.180	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0535	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.333		0.0330	0.110		2
06148	Vanadium	7440-62-2	46.0		0.0242	0.110		2
06149	Zinc	7440-66-6	70.3		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.74	J	0.23	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208346
LLI Group # 1233566
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E8305 SDG#: DE083-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 22:41	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 04:48	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/26/2011 00:14	Gregory J Drahovsky	100
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	02/28/2011 22:27	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 09:33	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 02:20	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	03/02/2011 13:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 18:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 16:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 14:06	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182101B	02/18/2011 10:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039401B	02/18/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	38	J	19	190		1
04688	Aniline	62-53-3	190	U	190	560		1
04688	Anthracene	120-12-7	96	J	19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	910		19	190		1
04688	Benzo(a)pyrene	50-32-8	800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	560		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	580		19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	140	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	1,300		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	180	J	19	190		1
04688	Dibenzofuran	132-64-9	19	J	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	1,900		19	190		1
04688	Fluorene	86-73-7	26	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	590		19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenanthrene	85-01-8	770		19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	1,600		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	8.7		0.38	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	10	J	6.8	20		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.8	20		1
10138	1-Methylnaphthalene	90-12-0	1.0	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.75	1.9		1
10138	Naphthalene	91-20-3	1.4	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 6.5 ug/kg bis(2-ethylhexyl)phthalate 9.4 ug/kg These blank values were not subtracted from the analytical results.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	27		1.4	3.8		2
10401	Dicamba	1918-00-9	0.51	J	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	810	U	810	810		1
10401	MCPP (Mecoprop)	93-65-2	120	U	120	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	MCPP was detected in the method blank at a concentration of 347 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction were within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial is reported.							
	Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.13	J	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	1.3	U	1.3	1.3		1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.38		1
01363	p,p-DDT	50-29-3	0.075	U	0.075	0.38		1
01363	Delta BHC	319-86-8	0.12	J	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.38		1
01363	Endosulfan I	959-98-8	0.11	U	0.11	0.19		1
01363	Endosulfan II	33213-65-9	0.29	U	0.29	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38		1
01363	Endrin	72-20-8	0.075	U	0.075	0.38		1
01363	Endrin Aldehyde	7421-93-4	1.5		0.075	0.38		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.095	J	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	30		0.75	3.8		10
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds are affected.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.60	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.63	22.4		1
07914	Boron	7440-42-8	2.06	J	0.996	5.59		1
01650	Calcium	7440-70-2	2,150		6.86	22.4		1
01654	Iron	7439-89-6	16,800		5.27	22.4		1
01656	Lithium	7439-93-2	16.3		0.25	2.2		1
01657	Magnesium	7439-95-4	3,270		2.84	11.2		1
06958	Manganese	7439-96-5	327		0.0873	0.559		1
10145	Phosphorus	7723-14-0	227		0.627	11.2		1
01662	Potassium	7440-09-7	3,130		20.1	55.9		1
01667	Sodium	7440-23-5	78.9	J	41.7	112		1
07968	Strontium	7440-24-6	18.2		0.0694	0.559		1
06969	Tin	7440-31-5	2.58	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,120		0.425	1.12		1
10146	Zirconium	7440-67-7	1.96	J	0.940	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.197	J	0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.08		0.0869	0.435		2
06126	Barium	7440-39-3	126		0.117	0.435		2
06127	Beryllium	7440-41-7	0.527		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.324		0.0435	0.109		2
06131	Chromium	7440-47-3	27.0		0.130	0.435		2
06132	Cobalt	7440-48-4	9.56		0.0217	0.109		2
06133	Copper	7440-50-8	14.8		0.0717	0.435		2
06135	Lead	7439-92-1	11.1		0.0113	0.217		2
06138	Molybdenum	7439-98-7	1.34		0.0543	0.109		2
06139	Nickel	7440-02-0	17.6		0.109	0.435		2
06141	Selenium	7782-49-2	0.450		0.0435	0.435		2
06142	Silver	7440-22-4	0.0658	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.404		0.0326	0.109		2
06148	Vanadium	7440-62-2	49.4		0.0239	0.109		2
06149	Zinc	7440-66-6	148		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1

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Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8306 SDG#: DE083-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	493		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.69		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011	23:06	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011	05:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	02/28/2011	22:55	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/08/2011	00:22	John W Perkins	2
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011	09:48	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011	10:02	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011	02:43	Lindsey K Lafferty	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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E8306 SDG#: DE083-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 18:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 17:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11053243201A	02/23/2011 14:25	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1

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Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208347
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
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E8306 SDG#: DE083-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8307 SDG#: DE083-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-032-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

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E8307 SDG#: DE083-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.53	J	0.37	1.8		1
10138	Anthracene	120-12-7	0.45	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.2	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.6	20		1
10138	Chrysene	218-01-9	2.4		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.6	20		1
10138	Fluoranthene	206-44-0	1.9		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	15	J	6.6	20		1
10138	Phenanthrene	85-01-8	1.4	J	0.74	1.8		1
10138	Pyrene	129-00-0	1.5	J	0.74	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	9.5	U	9.5	9.5		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	5.5		0.88	1.9		1
10401	MCPA	94-74-6	390	U	390	390		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.67		0.083	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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SL-032-SA5A-SS-0.0-0.5

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E8307 SDG#: DE083-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.17	J	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.27	J	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.093	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.081	J	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.6	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.1	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,600		5.40	21.5		1
07914	Boron	7440-42-8	1.54	J	0.956	5.37		1
01650	Calcium	7440-70-2	2,420		6.58	21.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8307 SDG#: DE083-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,000		5.06	21.5		1
01656	Lithium	7439-93-2	27.1		0.24	2.1		1
01657	Magnesium	7439-95-4	5,070		2.73	10.7		1
06958	Manganese	7439-96-5	347		0.0838	0.537		1
10145	Phosphorus	7723-14-0	560		0.601	10.7		1
01662	Potassium	7440-09-7	4,870		19.3	53.7		1
01667	Sodium	7440-23-5	71.0	J	40.1	107		1
07968	Strontium	7440-24-6	20.9		0.0666	0.537		1
06969	Tin	7440-31-5	3.01	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.408	1.07		1
10146	Zirconium	7440-67-7	1.30	J	0.902	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.19		0.0885	0.442		2
06126	Barium	7440-39-3	120		0.119	0.442		2
06127	Beryllium	7440-41-7	0.647		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.223		0.0442	0.111		2
06131	Chromium	7440-47-3	22.1		0.133	0.442		2
06132	Cobalt	7440-48-4	6.97		0.0221	0.111		2
06133	Copper	7440-50-8	11.6		0.0730	0.442		2
06135	Lead	7439-92-1	11.6		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.545		0.0553	0.111		2
06139	Nickel	7440-02-0	13.9		0.111	0.442		2
06141	Selenium	7782-49-2	0.169	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0620	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.259		0.0332	0.111		2
06148	Vanadium	7440-62-2	41.0		0.0243	0.111		2
06149	Zinc	7440-66-6	72.8		0.619	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	582		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8307 SDG#: DE083-07

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C		n.a.	6.50	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3		n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 23:31	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 05:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110540018A	02/24/2011 21:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 11:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 08:07	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110540018A	02/23/2011 23:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208348
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8307 SDG#: DE083-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	03/02/2011 13:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 19:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 17:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 14:31	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-041-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.51	J	0.37	1.8		1
10138	Anthracene	120-12-7	0.38	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.84	J	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.86	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.2		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.89	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.5	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	14	J	6.6	20		1
10138	Chrysene	218-01-9	2.4		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.6	20		1
10138	Fluoranthene	206-44-0	3.0		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.6	J	0.74	1.8		1
10138	Pyrene	129-00-0	2.3		0.74	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	5.1	U	5.1	5.1		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB and 2,4,5-TP.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.13	U	0.13	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The DCB surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.52	21.9		1
07914	Boron	7440-42-8	1.41	J	0.976	5.48		1
01650	Calcium	7440-70-2	2,630		6.72	21.9		1
01654	Iron	7439-89-6	19,900		5.16	21.9		1
01656	Lithium	7439-93-2	25.3		0.24	2.2		1
01657	Magnesium	7439-95-4	4,560		2.78	11.0		1
06958	Manganese	7439-96-5	320		0.0855	0.548		1
10145	Phosphorus	7723-14-0	687		0.614	11.0		1
01662	Potassium	7440-09-7	4,360		19.7	54.8		1
01667	Sodium	7440-23-5	66.6	J	40.9	110		1
07968	Strontium	7440-24-6	15.7		0.0680	0.548		1
06969	Tin	7440-31-5	2.50	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,210		0.417	1.10		1
10146	Zirconium	7440-67-7	1.39	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0932	J	0.0658	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0877	0.439		2
06126	Barium	7440-39-3	136		0.118	0.439		2
06127	Beryllium	7440-41-7	0.517		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.297		0.0439	0.110		2
06131	Chromium	7440-47-3	26.7		0.132	0.439		2
06132	Cobalt	7440-48-4	7.87		0.0219	0.110		2
06133	Copper	7440-50-8	13.9		0.0724	0.439		2
06135	Lead	7439-92-1	11.1		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.740		0.0548	0.110		2
06139	Nickel	7440-02-0	16.1		0.110	0.439		2
06141	Selenium	7782-49-2	0.108	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0431	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.225		0.0329	0.110		2
06148	Vanadium	7440-62-2	48.3		0.0241	0.110		2
06149	Zinc	7440-66-6	86.1		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8308 SDG#: DE083-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	583		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/26/2011 23:56	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/25/2011 06:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 15:14	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110590001A	03/03/2011 11:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 03:06	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110590001A	02/28/2011 06:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208349
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8308 SDG#: DE083-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	03/02/2011 13:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 19:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 18:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11053243201A	02/23/2011 14:50	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.3		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3		0.83
06192	Methylene Chloride	75-09-2	0.52	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.83

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Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.83
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.								
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		21.97
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	905	U	905	1,810		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

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Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.9		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	64		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	75		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	97		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	22		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	42		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	18	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	14	J	6.6	20		1
10138	Chrysene	218-01-9	60		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	7.6		0.73	1.8		1

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Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.6	20		1
10138	Fluoranthene	206-44-0	21		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.73	1.8		1
10138	Pyrene	129-00-0	32		0.73	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: di-n-butylphthalate 6.5 ug/kg bis(2-ethylhexyl)phthalate 9.4 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.05
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	19		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	8.4		0.36	1.9		1
10225	PCB-1260	11096-82-5	2.7		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	22	U	22	66		50
10199	EFH (C15-C20)	n.a.	22	U	22	66		50
10199	EFH (C21-C30)	n.a.	420		22	66		50
10199	EFH (C30 - C40)	n.a.	1,100		22	66		50
10199	EFH (C8-C11)	n.a.	22	U	22	66		50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.6	U	6.6	14		1
08283	Ethylene glycol	107-21-1	9.9	U	9.9	14		1

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Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.37	21.4		1
07914	Boron	7440-42-8	6.20		0.951	5.34		1
01650	Calcium	7440-70-2	2,860		6.55	21.4		1
01654	Iron	7439-89-6	17,300		5.03	21.4		1
01656	Lithium	7439-93-2	15.6		0.23	2.1		1
01657	Magnesium	7439-95-4	3,180		2.71	10.7		1
06958	Manganese	7439-96-5	197		0.0833	0.534		1
10145	Phosphorus	7723-14-0	330		0.598	10.7		1
01662	Potassium	7440-09-7	2,500		19.2	53.4		1
01667	Sodium	7440-23-5	144		39.8	107		1
07968	Strontium	7440-24-6	18.0		0.0662	0.534		1
06969	Tin	7440-31-5	2.49	J	1.07	10.7		1
06970	Titanium	7440-32-6	920		0.406	1.07		1
10146	Zirconium	7440-67-7	0.914	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.06		0.0871	0.436		2
06126	Barium	7440-39-3	82.9		0.118	0.436		2
06127	Beryllium	7440-41-7	0.564		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0881	J	0.0436	0.109		2
06131	Chromium	7440-47-3	16.8		0.131	0.436		2
06132	Cobalt	7440-48-4	4.43		0.0218	0.109		2
06133	Copper	7440-50-8	8.56		0.0719	0.436		2
06135	Lead	7439-92-1	6.63		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.582		0.0545	0.109		2
06139	Nickel	7440-02-0	10.2		0.109	0.436		2
06141	Selenium	7782-49-2	0.231	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0273	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.288		0.0327	0.109		2
06148	Vanadium	7440-62-2	45.0		0.0240	0.109		2
06149	Zinc	7440-66-6	75.1		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8309 SDG#: DE083-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	486		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	9.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-332-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 20:24	Chelsea B Eastep	0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8309 SDG#: DE083-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 22:34	Sara E Johnson	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:08	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104823704	02/17/2011 12:09	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/03/2011 23:58	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/27/2011 00:21	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/26/2011 01:24	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/18/2011 11:16	Marie D John	22.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:09	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 14:13	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 17:31	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 03:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 05:01	Heather E Williams	50
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 19:48	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 16:42	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 10:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208350
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8309 SDG#: DE083-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 19:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11060621201A	03/03/2011 19:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 18:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 14:56	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.86
06192	Methylene Chloride	75-09-2	0.67	J	0.24	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)pyrene	50-32-8	20	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1

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Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.62	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.82	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	8.4	J	6.9	21		1
10138	Chrysene	218-01-9	1.7	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19	J	6.9	21		1
10138	Fluoranthene	206-44-0	3.1		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	2.6		0.76	1.9		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 6.5 ug/kg
bis(2-ethylhexyl)phthalate 9.4 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	16		1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	4.5		0.38	1.9		1
10225	PCB-1260	11096-82-5	3.0		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	4.6	U	4.6	14		10
10199	EFH (C21-C30)	n.a.	37		4.6	14		10
10199	EFH (C30 - C40)	n.a.	100		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	8.0	U	8.0	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1

Due to interfering peaks on the chromatogram, the value reported for ethylene

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Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		5.69	22.6		1
07914	Boron	7440-42-8	1.04	J	1.01	5.66		1
01650	Calcium	7440-70-2	1,390		6.94	22.6		1
01654	Iron	7439-89-6	14,100		5.33	22.6		1
01656	Lithium	7439-93-2	13.2		0.25	2.3		1
01657	Magnesium	7439-95-4	2,500		2.87	11.3		1
06958	Manganese	7439-96-5	116		0.0883	0.566		1
10145	Phosphorus	7723-14-0	158		0.634	11.3		1
01662	Potassium	7440-09-7	2,050		20.4	56.6		1
01667	Sodium	7440-23-5	715		42.2	113		1
07968	Strontium	7440-24-6	10.2		0.0702	0.566		1
06969	Tin	7440-31-5	2.74	J	1.13	11.3		1
06970	Titanium	7440-32-6	830		0.430	1.13		1
10146	Zirconium	7440-67-7	0.950	U	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0824	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.96		0.0905	0.453		2
06126	Barium	7440-39-3	51.1		0.122	0.453		2
06127	Beryllium	7440-41-7	0.268		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0453	U	0.0453	0.113		2
06131	Chromium	7440-47-3	11.9		0.136	0.453		2
06132	Cobalt	7440-48-4	2.26		0.0226	0.113		2
06133	Copper	7440-50-8	4.12		0.0747	0.453		2
06135	Lead	7439-92-1	5.25		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.217		0.0566	0.113		2
06139	Nickel	7440-02-0	4.76		0.113	0.453		2
06141	Selenium	7782-49-2	0.0977	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0273	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.300		0.0339	0.113		2
06148	Vanadium	7440-62-2	24.8		0.0249	0.113		2
06149	Zinc	7440-66-6	58.1		0.634	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4		0.91	1.7		1

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Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

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14420 Albemarle Point Place
Suite 210
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E8310 SDG#: DE083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	479		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-333-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011 20:47	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011 22:54	Sara E Johnson	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:05	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104823704	02/17/2011 12:06	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 00:14	Timothy J Trees	1

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Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8310 SDG#: DE083-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/27/2011 00:46	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/26/2011 01:58	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/18/2011 11:53	Marie D John	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:06	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 14:55	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 17:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 03:52	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 04:36	Heather E Williams	10
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 20:03	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 17:00	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 12:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:46	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:50	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208351
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8310 SDG#: DE083-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	03/02/2011 13:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201A	03/03/2011 19:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11060621201A	03/03/2011 19:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 18:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 15:08	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:29	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201A	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201A	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.96
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.96
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.96
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.96
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.96
06192	Methylene Chloride	75-09-2	0.68	J	0.25	4.2		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.96

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.96
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.96
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-dichloropropene and 1,2,4-trichlorobenzene.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.95
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

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Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 9.4 ug/kg These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	310	J	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	8.8	U	8.8	14		1
08283	Ethylene glycol	107-21-1	8.8	U	8.8	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1

Due to interfering peaks on the chromatogram, the values reported for ethylene

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls		**SW-846 8015B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		5.45	21.7		1
07914	Boron	7440-42-8	0.964	U	0.964	5.42		1
01650	Calcium	7440-70-2	2,540		6.64	21.7		1
01654	Iron	7439-89-6	20,700		5.10	21.7		1
01656	Lithium	7439-93-2	15.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,070		2.75	10.8		1
06958	Manganese	7439-96-5	192		0.0845	0.542		1
10145	Phosphorus	7723-14-0	389		0.607	10.8		1
01662	Potassium	7440-09-7	2,990		19.5	54.2		1
01667	Sodium	7440-23-5	473		40.4	108		1
07968	Strontium	7440-24-6	13.5		0.0672	0.542		1
06969	Tin	7440-31-5	2.87	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,270		0.412	1.08		1
10146	Zirconium	7440-67-7	0.965	J	0.910	5.42		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.14		0.0858	0.429		2
06126	Barium	7440-39-3	63.5		0.116	0.429		2
06127	Beryllium	7440-41-7	0.402		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0459	J	0.0429	0.107		2
06131	Chromium	7440-47-3	15.9		0.129	0.429		2
06132	Cobalt	7440-48-4	3.95		0.0215	0.107		2
06133	Copper	7440-50-8	4.80		0.0708	0.429		2
06135	Lead	7439-92-1	6.93		0.0112	0.215		2
06138	Molybdenum	7439-98-7	1.07		0.0536	0.107		2
06139	Nickel	7440-02-0	6.20		0.107	0.429		2
06141	Selenium	7782-49-2	0.183	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0203	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.410		0.0322	0.107		2
06148	Vanadium	7440-62-2	41.6		0.0236	0.107		2
06149	Zinc	7440-66-6	64.7		0.601	3.22		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1

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Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8311 SDG#: DE083-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.7		0.88	1.6		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	480		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-335-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110482AA	02/17/2011	21:09	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110482AA	02/17/2011	23:14	Sara E Johnson	23.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011	12:02	Larry E Bevins	n.a.

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Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8311 SDG#: DE083-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104823704	02/17/2011 12:11	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104823704	02/17/2011 12:02	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 00:31	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11052SLG026	02/27/2011 01:11	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLJ026	02/26/2011 02:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLJ026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11052SLG026	02/22/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11048A34A	02/18/2011 12:29	Marie D John	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104823704	02/17/2011 12:03	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 15:37	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:19	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110530013A	03/05/2011 04:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110530013A	02/22/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 00:52	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 20:48	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 18:45	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/24/2011 21:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	110485708001	02/22/2011 06:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208352
LLI Group # 1233566
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8311 SDG#: DE083-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	110485708001	02/21/2011 03:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110481026001D	02/28/2011 12:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110481026001A	03/02/2011 13:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110481026001C	02/28/2011 12:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110481026001B	02/28/2011 12:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110481026001A	02/28/2011 12:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110485711001	02/18/2011 09:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110485708001	02/17/2011 20:15	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110481026001	02/17/2011 20:16	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110485711001	02/17/2011 22:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11060621201B	03/03/2011 20:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11060621201B	03/03/2011 20:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11055191201A	02/25/2011 19:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11053243201A	02/23/2011 15:21	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11054102202A	02/24/2011 16:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11060621201B	03/02/2011 10:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11055191201B	02/24/2011 16:10	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11054102202A	02/23/2011 10:15	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11049182102A	02/18/2011 11:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11049039402A	02/18/2011 11:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11053243201A	02/22/2011 09:10	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-021611 Water
SSFL Area IV Collocated Soil Sampling
TB-021611

LLI Sample # WW 6208353
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 08:00

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8312 SDG#: DE083-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: **TB-021611 Water**
SSFL Area IV Collocated Soil Sampling
TB-021611

LLI Sample # WW 6208353
LLI Group # 1233566
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 08:00

Submitted: 02/17/2011 08:45
Reported: 03/21/2011 05:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8312 SDG#: DE083-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110482AA	02/17/2011	16:17	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110481AA	02/17/2011	15:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110481AA	02/17/2011	15:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110482AA	02/17/2011	16:17	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11053B20A	02/22/2011	22:43	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11053B20A	02/22/2011	22:43	Katrina T Longenecker	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110482AA	Sample number(s): 6208350-6208352									
Acetone	6.7	U	6.7	8.0	ug/kg	105		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	93		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	81		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	105		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	96		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	81		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	91		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	83		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	78		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	75		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	95		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	72		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	106		43-146		
Chloroform	0.14	J	0.12	4.0	ug/kg	99		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	73		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	82		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	85		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	57		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	88		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	100		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	98		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	89		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	85		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	87		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	61		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	92		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	102		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	94		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	93		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	95		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	88		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	92		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	87		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	79*		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	82		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	87		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	90		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	79		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	68		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	67		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	84		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	81		75-120		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	90		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	65		61-134		
Methylene Chloride	0.39	J	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	90		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	85		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	91		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	92		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	75		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	67*		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	89		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	88		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	86		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	83		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	71		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	82		80-120		
Batch number: E110481AA	Sample number(s): 6208353									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	106	80-123	4	30
Batch number: E110482AA	Sample number(s): 6208350-6208352									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	101	70-130	2	30
Batch number: Y110482AA	Sample number(s): 6208353									
Acetone	6	U	6.	20	ug/l	106	106	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	95	99	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	94	98	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	100	105	80-120	5	30
Bromodichloromethane	1	U	1.	5	ug/l	88	92	80-120	5	30
Bromoform	1	U	1.	5	ug/l	73	77	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	95	99	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	104	108	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	92	95	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	99	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	96	80-120	5	30
Carbon Tetrachloride	1	U	1.	5	ug/l	88	93	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	100	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	95	96	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	106	111	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	96	100	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	95	98	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	99	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	79	81	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	91	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	83	87	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	97	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	96	100	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	97	80-120	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	95	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	78	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	102	79-120	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	106	109	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	91	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	100	80-120	5	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	96	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	99	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	103	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	95	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	100	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	89	93	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	93	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	99	79-120	5	30
Freon 113	2	U	2.	10	ug/l	81	83	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	106	108	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	83	86	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	100	103	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	94	98	77-120	4	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	98	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	99	104	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	97	98	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	100	80-120	4	30
Styrene	1	U	1.	5	ug/l	90	94	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	91	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	97	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	95	99	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	95	80-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	94	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	81	83	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	96	99	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	92	97	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	90	94	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	96	100	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	95	98	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	94	97	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	95	98	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	98	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	94	99	80-120	5	30

Batch number: 11052SLG026 Sample number(s): 6208342-6208352

Acenaphthene	17	U	17.	170	ug/kg	81		76-111
Aniline	170 U		170.	500	ug/kg	64		34-94
Anthracene	17	U	17.	170	ug/kg	102		76-112
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121
Benzo(a)anthracene	17	U	17.	170	ug/kg	102		73-112
Benzo(a)pyrene	17	U	17.	170	ug/kg	79		69-122
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	87		61-127
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	86		65-122
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	90		67-125
Benzoic acid	170 U		170.	500	ug/kg	109		62-113
Benzyl alcohol	170 U		170.	500	ug/kg	111		68-111
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112
Carbazole	17	U	17.	170	ug/kg	99		77-113

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	46		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	101		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	101		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	105		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	48		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	104		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	105		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	112		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	83		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	20	J	17.	330	ug/kg	84		75-117		
Fluoranthene	17	U	17.	170	ug/kg	107		78-116		
Fluorene	17	U	17.	170	ug/kg	82		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	80		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	90		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	100		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	84		51-117		
Phenanthrene	17	U	17.	170	ug/kg	104		77-113		
Phenol	17	U	17.	170	ug/kg	101		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11052SLJ026	Sample number(s): 6208342-6208352									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	101		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	112		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	105		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	116		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	112		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	115		65-131		
Di-n-butylphthalate	6.5	J	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	109		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	109		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	108		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	9.4	J	6.0	18	ug/kg	108		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	108		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	99		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	107		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	109		56-121		
Batch number: 11060SLB026	Sample number(s): 6208350-6208352									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11048A34A	Sample number(s): 6208350-6208352									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68		67-119		
Batch number: 11053B20A	Sample number(s): 6208353									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 110530007A	Sample number(s): 6208350-6208352									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	119	119	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	119	118	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	116		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	120		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110530006A	Sample number(s): 6208350-6208352									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	97		80-126		
Batch number: 110540018A	Sample number(s): 6208348									
2,4-D	1.2	U	1.2	3.6	ug/kg	87		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	61		24-89		
2,4-DB	0.75	J	0.62	1.7	ug/kg	85		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	82		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	99		60-141		
MCPA	76	U	76.	250	ug/kg	81		34-113		
MCPP (Mecoprop)	210 J		75.	250	ug/kg	80		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	86		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		48-138		
Batch number: 110570005A	Sample number(s): 6208342-6208347,6208349									
2,4-D	1.2	U	1.2	3.6	ug/kg	84		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	53		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	84		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	87		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	139		62-170		
MCPA	76	U	76.	250	ug/kg	77		60-130		
MCPP (Mecoprop)	350		75.	250	ug/kg	69		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 110540019A	Sample number(s): 6208344									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 110520010A	Sample number(s): 6208342									
Aldrin	0.066	U	0.066	0.17	ug/kg	88		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	61		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	69		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	64		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	72		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	77		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	66		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	74		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	52		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	80		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	94		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	73		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	67		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	83		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	67		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	82		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110530013A	Sample number(s): 6208343-6208347,6208349-6208352									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	81	36-106	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	111		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110540017A	Sample number(s): 6208342,6208348									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	81	71	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110590001A	Sample number(s): 6208343-6208349									
Aldrin	0.066	U	0.066	0.17	ug/kg	85		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	61		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	72		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	64		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	75		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	102		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	78		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	69		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	74		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	52		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	83		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	98		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	74		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	67		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	94		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	64		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	82		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110530029A	Sample number(s): 6208350-6208352									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110490013A	Sample number(s): 6208350-6208352									
Ethanol	100 U		100.	500	ug/kg	92		75-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	91		75-134		
Batch number: 110520024A	Sample number(s): 6208350-6208352									
Diethylene glycol	6.0	U	6.0	13	mg/kg	95		75-125		
Ethylene glycol	9.0	U	9.0	13	mg/kg	91		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Batch number: 110530028A	Sample number(s): 6208350-6208352									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
Batch number: 110481026001A	Sample number(s): 6208342-6208352									
Antimony	0.0600	U	0.0600	0.200	mg/kg	94		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	107		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	110		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	112		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.162	J	0.0660	0.400	mg/kg	113		80-120		
Lead	0.0131	J	0.0104	0.200	mg/kg	100		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	116		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	108		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		90-110		
Zinc	0.560	U	0.560	3.00	mg/kg	111		78-122		
Batch number: 110481026001B	Sample number(s): 6208342-6208352									
Selenium	0.0400	U	0.0400	0.400	mg/kg	110		79-122		
Batch number: 110481026001C	Sample number(s): 6208342-6208352									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 110481026001D	Sample number(s): 6208342-6208352									
Barium	0.108	U	0.108	0.400	mg/kg	104		79-121		
Batch number: 110485708001	Sample number(s): 6208342-6208352									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.63	J	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	1.08	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	101		78-110		
Sodium	37.3	U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.35	J	1.00	10.0	mg/kg	108		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	106		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110485711001	Sample number(s): 6208342-6208352									
Mercury	0.0028	U	0.0028	0.0989	mg/kg	91		88-123		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11053243201A	Sample number(s): 6208342-6208352									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11054102202A	Sample number(s): 6208350-6208352									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	95		80-120		
Batch number: 11055191201A	Sample number(s): 6208342-6208352									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11060621201A	Sample number(s): 6208342-6208351									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11060621201B	Sample number(s): 6208352									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11049039401B	Sample number(s): 6208342-6208346									
22a pH by 9045C						100		95-105		
Batch number: 11049039402A	Sample number(s): 6208347-6208352									
22a pH by 9045C						100		95-105		
Batch number: 11049182101B	Sample number(s): 6208342-6208346									
32a OR Potential						99		98-102		
Batch number: 11049182102A	Sample number(s): 6208347-6208352									
32a OR Potential						99		98-102		
Batch number: 11055162401A	Sample number(s): 6208342-6208349									
28a Moisture Content by 160.3						99		80-120		
Batch number: 11061162401B	Sample number(s): 6208350-6208352									
28a Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110482AA	Sample number(s): 6208350-6208352 UNSPK: P206985								
Acetone	88	88	15-210	12	30				
Benzene	99	93	55-143	18	30				
Bromobenzene	83	76	43-139	21	30				
Bromochloromethane	102	100	60-137	14	30				
Bromodichloromethane	95	90	53-136	18	30				
Bromoform	86	83	38-124	16	30				
Bromomethane	84	83	42-168	14	30				
2-Butanone	72	76	37-163	6	30				
n-Butylbenzene	81	68	30-146	28	30				
sec-Butylbenzene	80	69	33-157	26	30				
tert-Butylbenzene	76	68	41-152	23	30				

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Quality Control Summary

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Reported: 03/21/11 at 05:37 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbon Tetrachloride	110	100	45-153	21	30				
Chlorobenzene	95	85	49-135	23	30				
Chloroethane	74	69	39-152	19	30				
2-Chloroethyl Vinyl Ether	99	105	32-139	6	30				
Chloroform	105	98	61-142	19	30				
Chloromethane	83	82	51-163	13	30				
2-Chlorotoluene	84	75	42-146	23	30				
4-Chlorotoluene	83	77	39-145	20	30				
Chlorotrifluoroethene	70	70	70-130	2	30				
1,2-Dibromo-3-chloropropane	69	77	30-139	1	30				
Dibromochloromethane	98	91	51-128	19	30				
1,2-Dibromoethane	90	88	54-129	14	30				
Dibromomethane	95	90	57-130	17	30				
1,2-Dichlorobenzene	84	77	36-133	21	30				
1,3-Dichlorobenzene	81	73	34-134	23	30				
1,4-Dichlorobenzene	82	74	35-136	21	30				
Dichlorodifluoromethane	74	72	26-151	14	30				
1,1-Dichloroethane	99	94	63-142	17	30				
1,2-Dichloroethane	103	97	68-131	18	30				
1,1-Dichloroethene	105	100	61-149	17	30				
cis-1,2-Dichloroethene	101	96	60-136	17	30				
trans-1,2-Dichloroethene	103	96	59-142	19	30				
1,2-Dichloropropane	92	88	62-135	17	30				
1,3-Dichloropropane	90	88	58-129	15	30				
2,2-Dichloropropane	103	98	53-147	17	30				
1,1-Dichloropropene	97	91	54-145	18	30				
cis-1,3-Dichloropropene	81	77	51-131	16	30				
trans-1,3-Dichloropropene	80	78	49-129	14	30				
Ethylbenzene	88	77	44-141	26	30				
Freon 113	106	101	56-156	17	30				
Freon 133a	93	98	61-131	6	30				
Hexachlorobutadiene	68	60	10-155	23	30				
2-Hexanone	52	54	32-160	8	30				
Isopropylbenzene	81	69	38-144	27	30				
p-Isopropyltoluene	81	69	29-152	27	30				
Methyl Tertiary Butyl Ether	82	85	55-129	9	30				
4-Methyl-2-pentanone	52	57	46-139	5	30				
Methylene Chloride	97	103	61-141	6	30				
n-Propylbenzene	90	77	39-157	28	30				
Styrene	89	79	35-134	24	30				
1,1,1,2-Tetrachloroethane	100	91	52-130	21	30				
1,1,2,2-Tetrachloroethane	80	85	40-152	7	30				
Tetrachloroethene	96	85	42-149	25	30				
Toluene	96	86	50-146	23	30				
1,2,3-Trichlorobenzene	55	52	10-140	17	30				
1,2,4-Trichlorobenzene	51	48	10-136	19	30				
1,1,1-Trichloroethane	103	97	64-142	18	30				
1,1,2-Trichloroethane	95	92	54-139	15	30				
Trichloroethene	98	91	53-144	19	30				
Trichlorofluoromethane	105	99	47-163	18	30				
1,2,3-Trichloropropane	85	88	45-154	8	30				
1,2,4-Trimethylbenzene	85	75	37-149	25	30				
1,3,5-Trimethylbenzene	85	75	38-150	25	30				

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Quality Control Summary

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Reported: 03/21/11 at 05:37 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Chloride	83	83	50-154	12	30				
m+p-Xylene	94	81	44-137	27	30				
o-Xylene	83	72	42-137	26	30				
Batch number: E110482AA	Sample number(s): 6208350-6208352 UNSPK: P206985								
1,4-Dioxane	91	90	70-130	11	30				
Batch number: 11052SLG026	Sample number(s): 6208342-6208352 UNSPK: P206985								
Acenaphthene	96	101	75-115	5	30				
Aniline	72	66	35-95	8	30				
Anthracene	104	104	75-115	0	30				
Benzidine	33*	19*	35-141	56*	30				
Benzo(a)anthracene	112	110	65-122	2	30				
Benzo(a)pyrene	96	98	57-126	2	30				
Benzo(b)fluoranthene	103	98	59-125	5	30				
Benzo(g,h,i)perylene	98	102	59-127	3	30				
Benzo(k)fluoranthene	91	101	56-132	10	30				
Benzoic acid	93	99	10-173	7	30				
Benzyl alcohol	105	104	67-115	1	30				
4-Bromophenyl-phenylether	100	92	67-129	8	30				
Di-n-butylphthalate	100	99	67-123	1	30				
Carbazole	103	108	64-120	5	30				
4-Chloro-3-methylphenol	97	107	76-110	10	30				
4-Chloroaniline	62	70	23-95	11	30				
bis(2-Chloroethoxy)methane	93	102	75-104	9	30				
bis(2-Chloroethyl)ether	98	97	60-116	1	30				
bis(2-Chloroisopropyl)ether	98	98	55-142	0	30				
2-Chloronaphthalene	97	100	50-141	3	30				
2-Chlorophenol	102	100	73-121	1	30				
4-Chlorophenyl-phenylether	94	100	80-109	6	30				
Chrysene	88	118	62-128	29	30				
Dibenz(a,h)anthracene	99	99	65-125	0	30				
Dibenzofuran	97	102	71-112	5	30				
1,2-Dichlorobenzene	94	91	66-108	3	30				
1,3-Dichlorobenzene	91	78	63-109	15	30				
1,4-Dichlorobenzene	94	90	70-100	4	30				
3,3'-Dichlorobenzidine	57	89	16-119	44*	30				
2,4-Dichlorophenol	98	109	78-117	10	30				
2,4-Dimethylphenol	104	107	78-110	2	30				
3,5-Dimethylphenol	110	112	70-130	2	30				
4,6-Dinitro-2-methylphenol	79	72	24-116	10	30				
2,4-Dinitrophenol	54	54	20-143	0	30				
2,4-Dinitrotoluene	96	103	73-113	7	30				
2,6-Dinitrotoluene	97	105	69-123	8	30				
1,2-Diphenylhydrazine	104	107	71-129	4	30				
bis(2-Ethylhexyl)phthalate	114	111	63-122	3	30				
Fluoranthene	98	103	73-112	6	30				
Fluorene	92	103	77-111	11	30				
Hexachlorobenzene	107	105	77-114	2	30				
Hexachlorobutadiene	90	102	62-120	13	30				
Hexachlorocyclopentadiene	78	78	10-153	0	30				
Hexachloroethane	94	91	57-109	4	30				
Indeno(1,2,3-cd)pyrene	101	103	61-126	2	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	101	103*	73-102	3	30				
2-Methylphenol	94	101	75-111	7	30				
4-Methylphenol	95	96	71-111	1	30				
2-Nitroaniline	104	108	67-125	4	30				
3-Nitroaniline	103	104	59-122	1	30				
4-Nitroaniline	61	78	52-112	24	30				
Nitrobenzene	96	97	72-106	2	30				
2-Nitrophenol	102	109	74-115	7	30				
4-Nitrophenol	89	94	54-113	6	30				
N-Nitroso-di-n-propylamine	96	97	60-116	1	30				
N-Nitrosodiphenylamine	99	105	86-145	6	30				
Pentachlorophenol	96	102	28-127	6	30				
Phenanthrene	104	106	65-125	2	30				
Phenol	99	98	58-126	1	30				
Pyrene	113	127*	74-126	12	30				
1,2,4-Trichlorobenzene	102	102	72-115	0	30				
2,4,5-Trichlorophenol	100	105	78-109	5	30				
2,4,6-Trichlorophenol	106	109	77-115	3	30				
Batch number: 11052SLJ026	Sample number(s): 6208342-6208352 UNSPK: 6208342								
Acenaphthene	102	105	63-105	3	30				
Acenaphthylene	106	109	67-114	3	30				
Anthracene	105	115	60-122	8	30				
Benzo(a)anthracene	118	128	59-128	8	30				
Benzo(a)pyrene	104	114	45-138	8	30				
Benzo(b)fluoranthene	91	101	43-155	9	30				
Benzo(g,h,i)perylene	124	118	33-141	5	30				
Benzo(k)fluoranthene	92	99	42-144	7	30				
Butylbenzylphthalate	131	138	57-173	5	30				
Di-n-butylphthalate	108	106	65-148	2	30				
Chrysene	109	124	48-134	11	30				
Dibenz(a,h)anthracene	115	115	22-133	0	30				
Diethylphthalate	115	120	70-136	4	30				
Dimethylphthalate	110	114	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	144	153	39-167	4	30				
Fluoranthene	99	135	26-166	28	30				
Fluorene	99	103	66-122	4	30				
Indeno(1,2,3-cd)pyrene	114	115	21-143	1	30				
1-Methylnaphthalene	97	100	72-123	3	30				
2-Methylnaphthalene	88	90	64-103	2	30				
Naphthalene	94	96	61-102	2	30				
N-Nitrosodimethylamine	100	101	48-113	1	30				
Di-n-octylphthalate	103	77	40-192	16	30				
Phenanthrene	97	118	12-165	18	30				
Pyrene	114	135	15-153	16	30				
Batch number: 11060SLB026	Sample number(s): 6208350-6208352 UNSPK: P206985								
N-Nitrosodimethylamine	82	83	70-130	1	30				
Batch number: 11048A34A	Sample number(s): 6208350-6208352 UNSPK: P206985								
9a TPH by EPA 8015B Gas C5-C12	78	67	39-118	7	30				
Batch number: 110530007A	Sample number(s): 6208350-6208352 UNSPK: P206985								

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Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Amino-2,6-Dinitrotoluene	98	96	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	96	95	80-137	1	50				
1,3-Dinitrobenzene	99	97	38-166	2	50				
2,4-Dinitrotoluene	95	93	80-131	1	50				
2,6-Dinitrotoluene	98	94	80-127	4	50				
HMX	81	82	63-128	1	50				
Nitrobenzene	97	98	80-125	1	50				
Nitroglycerin	91	89	80-120	2	50				
2-Nitrotoluene	97	95	80-122	2	50				
3-Nitrotoluene	95	92	72-119	3	50				
4-Nitrotoluene	94	91	80-125	4	50				
PETN	98	97	80-121	1	50				
RDX	79	79	75-129	0	50				
Tetryl	80	76	55-174	5	50				
1,3,5-Trinitrobenzene	93	92	82-126	1	50				
2,4,6-Trinitrotoluene	99	97	82-130	2	50				
Batch number: 110530006A	Sample number(s): 6208350-6208352 UNSPK: 6208350								
17a Formaldehyde by 8315A	102	104	80-120	1	50				
Batch number: 110540018A	Sample number(s): 6208348 UNSPK: P208342								
2,4-D	79	100	28-161	23	35				
Dalapon	253*	67	12-86	116*	50				
2,4-DB	72	241*	20-170	108*	50				
Dicamba	-2*	-222*	33-120	126*	50				
Dinoseb	9	10	1-44	16	35				
2,4-DP (Dichlorprop)	105	114	55-141	8	50				
MCPA	235*	89	31-184	90*	50				
MCPP (Mecoprop)	104	155	16-174	40	50				
2,4,5-T	35	27	25-132	27	35				
2,4,5-TP	7*	23	10-183	20	35				
Batch number: 110570005A	Sample number(s): 6208342-6208347,6208349 UNSPK: 6208345								
2,4-D	56	63	17-180	11	35				
Dalapon	0*	39	10-125	200*	50				
2,4-DB	128	119	10-201	7	50				
Dicamba	205*	193*	10-190	6	50				
Dinoseb	19	22	10-46	16	35				
2,4-DP (Dichlorprop)	88	139	33-178	45	50				
MCPA	183	184	10-213	1	50				
MCPP (Mecoprop)	82	86	10-184	4	50				
2,4,5-T	57	40	10-156	35	35				
2,4,5-TP	93	87	24-141	7	35				
Batch number: 110540019A	Sample number(s): 6208344 UNSPK: p210672								
6a Perchlorate EPA 6850	103	109	80-120	6	20				
Batch number: 110520010A	Sample number(s): 6208342 UNSPK: P205494								
Aldrin	70	79	16-126	12	50				
Alpha BHC	58	64	10-129	10	50				
Beta BHC	50	59	14-147	17	50				
Gamma BHC - Lindane	58	52	10-140	11	50				
p,p-DDD	64	64	16-163	0	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDE	118	137	18-161	14	50				
p,p-DDT	208*	215*	10-176	4	50				
Delta BHC	56	53	23-140	6	50				
Dieldrin	67	67	19-154	0	50				
Endosulfan I	18	0*	16-137	200*	50				
Endosulfan II	63	48	28-154	28	50				
Endosulfan Sulfate	68	68	21-160	0	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	52	65	10-148	23	35				
Endrin Ketone	47	52	22-165	9	50				
Heptachlor	52	52	13-126	0	50				
Heptachlor Epoxide	82	0*	13-157	200*	50				
Methoxychlor	43	67	32-147	44	50				
Batch number: 110540017A	Sample number(s): 6208342,6208348 UNSPK: P209557								
PCB-1016	61	84	29-146	32	50				
PCB-1260	74	98	39-149	26	50				
Batch number: 110590001A	Sample number(s): 6208343-6208349 UNSPK: P205495								
Aldrin	73	73	16-126	0	50				
Alpha BHC	52	64	10-129	21	50				
Beta BHC	166*	244*	14-147	25	50				
Gamma BHC - Lindane	64	55	10-140	15	50				
p,p-DDD	51	66	16-163	26	50				
p,p-DDE	97	98	18-161	1	50				
p,p-DDT	106	100	10-176	4	50				
Delta BHC	66	69	23-140	5	50				
Dieldrin	44	39	19-154	5	50				
Endosulfan I	36	26	16-137	33	50				
Endosulfan II	2*	3*	28-154	3	50				
Endosulfan Sulfate	40	49	21-160	10	50				
Endrin	42	45	11-149	7	50				
Endrin Aldehyde	23	21	10-148	4	35				
Endrin Ketone	40	56	22-165	27	50				
Heptachlor	-9*	-12*	13-126	5	50				
Heptachlor Epoxide	76	55	13-157	33	50				
Methoxychlor	58	24*	32-147	66*	50				
Batch number: 110530029A	Sample number(s): 6208350-6208352 UNSPK: 6208350								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	2133 (2)	5256 (2)	49-123	14	20				
EFH (C30 - C40)	16238 (2)	25509 (2)	49-123	16	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 110490013A	Sample number(s): 6208350-6208352 UNSPK: 6208351								
Ethanol	84	86	24-143	2	20				
Isopropanol	87	88	75-125	2	20				
Methanol	92	97	45-136	5	20				
Batch number: 110520024A	Sample number(s): 6208350-6208352 UNSPK: 6208350								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylene glycol	52*	73	59-109	33*	20				
Ethylene glycol	65	80	63-107	21*	20				
Propylene glycol	77	89	63-107	15	20				
Batch number: 110530028A	Sample number(s): 6208350-6208352 UNSPK: P206985								
m-Terphenyl	80	80	75-125	1	20				
o-Terphenyl	96	95	75-125	2	20				
p-Terphenyl	75	73*	75-125	2	20				
Batch number: 110481026001A	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Antimony	41*	63*	75-125	29*	20	0.281	0.160 J	55* (1)	20
Arsenic	48*	117	75-125	18	20	5.74	4.55	23*	20
Beryllium	87	85	75-125	1	20	0.532	0.450	17 (1)	20
Cadmium	138*	182*	75-125	24*	20	0.274	0.367	29* (1)	20
Chromium	104	165*	75-125	16	20	24.4	22.7	7	20
Cobalt	140*	154*	75-125	8	20	7.71	5.90	27*	20
Copper	123	148*	75-125	9	20	14.0	11.1	23*	20
Lead	135 (2)	242 (2)	75-125	12	20	20.2	19.8	2	20
Nickel	131*	160*	75-125	9	20	16.3	13.2	21*	20
Silver	138*	156*	75-125	13	20	0.0787 J	0.185	81* (1)	20
Thallium	121	143*	75-125	9	20	0.366	0.228	47* (1)	20
Vanadium	59 (2)	143 (2)	75-125	14	20	47.7	38.0	22*	20
Zinc	58 (2)	183 (2)	75-125	13	20	82.6	73.9	11	20
Batch number: 110481026001B	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Selenium	128*	157*	75-125	19	20	0.232 J	0.193 J	18 (1)	20
Batch number: 110481026001C	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Molybdenum	136*	156*	75-125	13	20	0.991	0.846	16	20
Batch number: 110481026001D	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Barium	-20 (2)	168 (2)	75-125	13	20	130	106	21*	20
Batch number: 110485708001	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Aluminum	1237 (2)	1545 (2)	75-125	3	20	12,500	12,700	2	20
Boron	101	100	84-115	3	20	1.74 J	1.59 J	9 (1)	20
Calcium	181 (2)	183 (2)	75-125	1	20	2,150	2,180	1	20
Iron	218 (2)	661 (2)	75-125	3	20	15,400	15,700	2	20
Lithium	101	105	82-114	0	20	19.0	18.5	3	20
Magnesium	147 (2)	230 (2)	75-125	4	20	3,330	3,380	2	20
Manganese	98 (2)	101 (2)	75-125	0	20	293	290	1	20
Phosphorus	107 (2)	112 (2)	75-125	0	20	418	439	5	20
Potassium	124	137*	75-125	2	20	3,000	3,070	2	20
Sodium	99	101	75-125	1	20	62.1 J	62.2 J	0 (1)	20
Strontium	101	102	75-115	2	20	16.7	16.6	1	20
Tin	93	95	80-110	1	20	2.38 J	2.30 J	4 (1)	20
Titanium	291 (2)	312 (2)	75-125	1	20	1,020	1,020	0	20
Zirconium	94	96	75-125	1	20	2.02 J	2.33 J	14 (1)	20
Batch number: 110485711001	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
Mercury	103	97	65-135	7	20	0.0027 U	0.0029 J	200* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11053243201A	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
3a Cr VI by EPA 7199	82		75-125			0.42 J	0.41 J	2 (1)	20
Batch number: 11054102202A	Sample number(s): 6208350-6208352 UNSPK: P206985 BKG: P206985								
21a Cyanide by 9012B	98		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11055191201A	Sample number(s): 6208342-6208352 UNSPK: 6208342 BKG: 6208342								
7a Perchlorate EPA 314.0	106		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11060621201A	Sample number(s): 6208342-6208351 UNSPK: 6208343 BKG: 6208343								
11a Anions by 300.0 - Fluoride	51*		80-120			1.5	1.7	10 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			2.2	2.3	5 (1)	20
Batch number: 11060621201B	Sample number(s): 6208352 UNSPK: 6208352 BKG: 6208352								
11a Anions by 300.0 - Fluoride	93		80-120			2.7	2.6	6 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			3.4	3.4	0 (1)	20
Batch number: 11049039401B	Sample number(s): 6208342-6208346 BKG: P206985								
22a pH by 9045C						7.00	7.00	0	1
Batch number: 11049039402A	Sample number(s): 6208347-6208352 BKG: 6208347								
22a pH by 9045C						6.69	6.69	0	1
Batch number: 11049182101B	Sample number(s): 6208342-6208346 BKG: P206985								
32a OR Potential						535	535	0	6
Batch number: 11049182102A	Sample number(s): 6208347-6208352 BKG: 6208347								
32a OR Potential						493	494	0	6
Batch number: 11055162401A	Sample number(s): 6208342-6208349 BKG: 6208348								
28a Moisture Content by 160.3						9.6	6.7	35*	20
Batch number: 11061162401B	Sample number(s): 6208350-6208352 BKG: P206985								
28a Moisture Content by 160.3						8.3	9.2	10	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6208350	112	106	98	87
6208351	113	107	97	88
6208352	112	105	96	86
Blank	115	110	96	87
LCS	105	104	105	107
MS	103	102	106	104

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

MSD	103	105	105	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110481AA

	Toluene-d8
6208353	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110482AA

	Toluene-d8
6208350	95
6208351	95
6208352	95
Blank	96
LCS	95
LCSD	95
MS	95
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6208353	101	102	105	99
Blank	102	103	105	99
LCS	103	105	106	100
LCSD	103	103	105	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11052SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6208342	97	98	87	94	92	89
6208343	100	100	85	97	95	91
6208344	70	72	68	75	71	66
6208345	94	96	94	95	94	92
6208346	96	97	93	94	94	90
6208347	96	99	90	97	96	87
6208348	94	96	89	96	94	87
6208349	97	99	91	94	94	87
6208350	91	94	86	93	93	84
6208351	93	94	88	95	93	85
6208352	91	95	92	95	93	87
Blank	88	92	99	93	92	91

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Quality Control Summary

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Surrogate Quality Control

LCS	102	99	92	88	80	87
MS	98	95	86	94	89	97
MSD	99	98	100	91	95	106
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11052SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6208342	114	95	108
6208343	114	91	108
6208344	119	86	80
6208345	115	95	93
6208346	116	92	91
6208347	117	95	89
6208348	118	97	97
6208349	129	93	96
6208350	117	87	99
6208351	119	87	98
6208352	123	90	101
Blank	114	103	125
LCS	116	88	103
MS	139*	95	108
MSD	138*	98	110
Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11060SLB026

	N-Nitrosodimethylamine-d6
6208350	96
6208351	93
6208352	99
Blank	92
LCS	93
MS	99
MSD	112
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11048A34A

	Trifluorotoluene-F
6208350	78
6208351	79
6208352	78
Blank	80
LCS	87
MS	81
MSD	82
Limits:	61-122

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Quality Control Summary

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Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11053B20A

	Trifluorotoluene-F
6208353	85
Blank	87
LCS	113
LCSD	115
Limits:	63-135

Analysis Name: 12a Pesticides by 8081A
Batch number: 110520010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6208342	73	43
Blank	1*	0*
LCS	1*	0*
MS	2*	43
MSD	1*	36
Limits:	50-130	20-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110530006A

	Butyraldehyde
6208350	110
6208351	107
6208352	115
Blank	118
LCS	121
MS	117
MSD	112
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110530007A

	2-Nitro-m-xylene
6208350	112
6208351	116
6208352	102
Blank	116
LCS	130
LCSD	125
MS	104
MSD	108
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110530013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6208343	110	130*

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Quality Control Summary

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Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

6208344	119	130*
6208345	108	112
6208346	114	116
6208347	130	144*
6208349	118	135*
6208350	122	119
6208351	117	114
6208352	96	100
Blank	103	109
LCS	105	115
LCSD	103	110
Limits:	53-139	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110540017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6208342	124	141*
6208348	88	99
Blank	74	118
LCS	88	104
LCSD	99	100
MS	68	85
MSD	88	111
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110540018A

	2,4-Dichlorophenylacetic acid
6208348	69
Blank	96
LCS	92
MS	142
MSD	69
Limits:	36-156

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110570005A

	2,4-Dichlorophenylacetic acid
6208342	91
6208343	76
6208344	90
6208345	108
6208346	88
6208347	120
6208349	64
Blank	80
LCS	82
MS	105
MSD	96

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

Limits: 36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 110590001A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6208343	52	45
6208344	66	56
6208345	56	35
6208346	72	57
6208347	69	1024*
6208348	61	63
6208349	59	50
Blank	50	80
LCS	61	86
MS	66	114
MSD	63	33
Limits:	50-130	20-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 110490013A

	Acetone
6208350	78
6208351	84
6208352	81
Blank	94
LCS	94
MS	82
MSD	83
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110520024A

	Tetramethylene glycol
6208350	74
6208351	57
6208352	54
Blank	110
LCS	107
MS	101
MSD	92
Limits:	29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110530028A

	n-Triacontane-d62
6208350	427*
6208351	196*
6208352	78
Blank	80

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233566
Reported: 03/21/11 at 05:37 AM

Surrogate Quality Control

LCS	78
MS	85
MSD	81
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110530029A

	Chlorobenzene	Orthoterphenyl
6208350	62	97
6208351	61	82
6208352	65	77
Blank	78	89
LCS	80	91
MS	66	104
MSD	56	89
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1233566 sample# 6208342-53

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 8850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: *pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-024-SA5A-SS-0.0-0.5	2.16.2011	1030	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-024-SA5A-SS-0.0-0.5	2.16.2011	1030	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-025-SA5A-SS-0.0-0.5	2.16.2011	1328	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-025-SA5A-SS-0.0-0.5	2.16.2011	1328	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-026-SA5A-SS-0.0-0.5	2.16.2011	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X														
SL-026-SA5A-SS-0.0-0.5	2.16.2011	1045	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-028-SA5A-SS-0.0-0.5	2.16.2011	1255	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-028-SA5A-SS-0.0-0.5	2.16.2011	1255	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-029-SA5A-SS-0.0-0.5	2.16.2011	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-029-SA5A-SS-0.0-0.5	2.16.2011	1310	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-031-SA5A-SS-0.0-0.5	2.16.2011	1110	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-031-SA5A-SS-0.0-0.5	2.16.2011	1110	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-032-SA5A-SS-0.0-0.5	2.16.2011	0920	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-032-SA5A-SS-0.0-0.5	2.16.2011	0920	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-041-SA5A-SS-0.0-0.5	2.16.2011	930	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-041-SA5A-SS-0.0-0.5	2.16.2011	930	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-332-SA5B-SB-4.0-5.0	2.16.2011	1616	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-332-SA5B-SB-4.5	2.16.2011	1610	SOIL	NONE	5-Encores											X	X	X											
SL-333-SA5B-SB-4.0-5.0	2.16.2011	1230	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-333-SA5B-SB-4.5	2.16.2011	1226	SOIL	NONE	5-Encores											X	X	X											
SL-335-SA5B-SB-2.0-3.0	2.16.2011	1057	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X		
SL-335-SA5B-SB-2.5	2.16.2011	1050	SOIL	NONE	5-Encores											X	X	X											
TB-021611	2.16.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature)

Date/Time: 02/16/2011 / 17:00

Received by: (Signature)

Date/Time

Received for Laboratory by: (Signature) 2/17/11 845

Airbill No.(s): 8695 1432 3130, ...3140

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 23, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/17/2011
Group Number: 1233568
SDG: DX051
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA5A-SS-0.0-0.5 Soil	6208374
SL-025-SA5A-SS-0.0-0.5 Soil	6208375
SL-026-SA5A-SS-0.0-0.5 Soil	6208376
SL-028-SA5A-SS-0.0-0.5 Soil	6208377
SL-029-SA5A-SS-0.0-0.5 Soil	6208378
SL-031-SA5A-SS-0.0-0.5 Soil	6208379
SL-032-SA5A-SS-0.0-0.5 Soil	6208380
SL-041-SA5A-SS-0.0-0.5 Soil	6208381
SL-332-SA5B-SB-4.0-5.0 Soil	6208382
SL-333-SA5B-SB-4.0-5.0 Soil	6208383
SL-335-SA5B-SB-2.0-3.0 Soil	6208384

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208374
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5101 SDG#: DX051-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208374
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5101 SDG#: DX051-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0951	JQ	0.00936	1.09	1
11031	12378-PeCDD	40321-76-4	0.535	JBQ	0.0456	5.44	1
11031	123478-HxCDD	39227-28-6	0.855	J	0.303	5.44	1
11031	123678-HxCDD	57653-85-7	2.58	JB	0.255	5.44	1
11031	123789-HxCDD	19408-74-3	2.09	J	0.0799	5.44	1
11031	1234678-HpCDD	35822-46-9	69.1	B	0.117	5.44	1
11031	OCDD	3268-87-9	1,200	B	0.137	10.9	1
11031	2378-TCDF	51207-31-9	0.483	JB	0.0421	1.09	1
11031	12378-PeCDF	57117-41-6	0.196	JB	0.0396	5.44	1
11031	23478-PeCDF	57117-31-4	0.983	JB	0.0624	5.44	1
11031	123478-HxCDF	70648-26-9	0.440	U	0.440	5.44	1
11031	123678-HxCDF	57117-44-9	0.492	JB	0.277	5.44	1
11031	123789-HxCDF	72918-21-9	0.454	JB	0.0347	5.44	1
11031	234678-HxCDF	60851-34-5	0.509	JB	0.0656	5.44	1
11031	1234678-HpCDF	67562-39-4	7.36	B	0.218	5.44	1
11031	1234789-HpCDF	55673-89-7	0.440	JB	0.0639	5.44	1
11031	OCDF	39001-02-0	22.9	B	0.0812	10.9	1

The recoveries of several labeled compounds were outside QC limits in this sample. Sufficient sample was not available to perform a re-extraction.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	27	25 - 181
13C12-123478-HxCDD	12	32 - 141
13C12-123678-HxCDD	14	28 - 130
13C12-123789-HxCDD	41	28 - 130
13C12-1234678-HpCDD	22	23 - 140
13C12-OCDD	24	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	36	24 - 185
13C12-23478-PeCDF	21	21 - 178
13C12-123478-HxCDF	5	26 - 152
13C12-123678-HxCDF	7	26 - 123
13C12-234678-HxCDF	30	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	7	28 - 143
13C12-1234789-HpCDF	27	26 - 138
13C12-OCDF	17	17 - 157
13C12-1278-TCDD (CRS)	21	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208374
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5101 SDG#: DX051-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5A-SS-0.0-0.5

LLI Sample # SW 6208374
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5101 SDG#: DX051-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 02:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208375
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5102 SDG#: DX051-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208375
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5102 SDG#: DX051-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0890	JQ	0.0176	1.17	1
11031	12378-PeCDD	40321-76-4	0.843	JB	0.0463	5.83	1
11031	123478-HxCDD	39227-28-6	1.25	J	0.131	5.83	1
11031	123678-HxCDD	57653-85-7	3.46	JB	0.122	5.83	1
11031	123789-HxCDD	19408-74-3	2.78	J	0.115	5.83	1
11031	1234678-HpCDD	35822-46-9	80.6	B	0.106	5.83	1
11031	OCDD	3268-87-9	1,220	B	0.182	11.7	1
11031	2378-TCDF	51207-31-9	0.906	JB	0.108	1.17	1
11031	12378-PeCDF	57117-41-6	0.0572	U	0.0572	5.83	1
11031	23478-PeCDF	57117-31-4	1.65	JB	0.0589	5.83	1
11031	123478-HxCDF	70648-26-9	0.128	U	0.128	5.83	1
11031	123678-HxCDF	57117-44-9	0.638	JB	0.0881	5.83	1
11031	123789-HxCDF	72918-21-9	0.339	JBQ	0.0803	5.83	1
11031	234678-HxCDF	60851-34-5	0.746	JB	0.0656	5.83	1
11031	1234678-HpCDF	67562-39-4	8.99	B	0.0512	5.83	1
11031	1234789-HpCDF	55673-89-7	0.560	JB	0.0558	5.83	1
11031	OCDF	39001-02-0	25.0	B	0.0556	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208375
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5102 SDG#: DX051-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5A-SS-0.0-0.5

LLI Sample # SW 6208375
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:28

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5102 SDG#: DX051-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 03:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208376
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5103 SDG#: DX051-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208376
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5103 SDG#: DX051-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0729	JQ	0.0163	1.12	1
11031	12378-PeCDD	40321-76-4	0.855	JB	0.0396	5.61	1
11031	123478-HxCDD	39227-28-6	1.44	J	0.0920	5.61	1
11031	123678-HxCDD	57653-85-7	3.23	JB	0.0886	5.61	1
11031	123789-HxCDD	19408-74-3	2.64	J	0.0816	5.61	1
11031	1234678-HpCDD	35822-46-9	82.9	B	0.0895	5.61	1
11031	OCDD	3268-87-9	911	B	0.104	11.2	1
11031	2378-TCDF	51207-31-9	0.486	JBQ	0.0825	1.12	1
11031	12378-PeCDF	57117-41-6	0.168	JB	0.0464	5.61	1
11031	23478-PeCDF	57117-31-4	1.22	JB	0.0464	5.61	1
11031	123478-HxCDF	70648-26-9	0.488	JB	0.0887	5.61	1
11031	123678-HxCDF	57117-44-9	0.522	JB	0.0643	5.61	1
11031	123789-HxCDF	72918-21-9	0.296	JB	0.0567	5.61	1
11031	234678-HxCDF	60851-34-5	0.783	JB	0.0508	5.61	1
11031	1234678-HpCDF	67562-39-4	10.5	B	0.0545	5.61	1
11031	1234789-HpCDF	55673-89-7	0.778	JB	0.0571	5.61	1
11031	OCDF	39001-02-0	30.9	B	0.0398	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	107	24 - 169
13C12-12378-PeCDF	111	24 - 185
13C12-23478-PeCDF	104	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	101	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	108	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208376
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5103 SDG#: DX051-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-026-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5A-SS-0.0-0.5

LLI Sample # SW 6208376
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:45

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5103 SDG#: DX051-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 04:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208377
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5104 SDG#: DX051-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208377
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5104 SDG#: DX051-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0435	JQ	0.0111	1.11	1
11031	12378-PeCDD	40321-76-4	0.222	JB	0.0222	5.54	1
11031	123478-HxCDD	39227-28-6	0.290	JQ	0.0649	5.54	1
11031	123678-HxCDD	57653-85-7	1.08	JB	0.0665	5.54	1
11031	123789-HxCDD	19408-74-3	1.08	J	0.0631	5.54	1
11031	1234678-HpCDD	35822-46-9	23.8	B	0.0608	5.54	1
11031	OCDD	3268-87-9	322	B	0.0761	11.1	1
11031	2378-TCDF	51207-31-9	0.0329	JB	0.0173	1.11	1
11031	12378-PeCDF	57117-41-6	0.0648	JBQ	0.00898	5.54	1
11031	23478-PeCDF	57117-31-4	0.130	JB	0.00987	5.54	1
11031	123478-HxCDF	70648-26-9	0.246	JB	0.0274	5.54	1
11031	123678-HxCDF	57117-44-9	0.181	JB	0.0210	5.54	1
11031	123789-HxCDF	72918-21-9	0.243	JB	0.0278	5.54	1
11031	234678-HxCDF	60851-34-5	0.171	JB	0.0218	5.54	1
11031	1234678-HpCDF	67562-39-4	2.65	JB	0.0204	5.54	1
11031	1234789-HpCDF	55673-89-7	0.190	JB	0.0374	5.54	1
11031	OCDF	39001-02-0	6.52	JB	0.0376	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	106	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208377
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5104 SDG#: DX051-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-028-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA5A-SS-0.0-0.5

LLI Sample # SW 6208377
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:55

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5104 SDG#: DX051-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 04:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208378
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5105 SDG#: DX051-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208378
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5105 SDG#: DX051-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0482	J	0.0118	1.13	1
11031	12378-PeCDD	40321-76-4	0.344	JB	0.0231	5.66	1
11031	123478-HxCDD	39227-28-6	0.453	J	0.0877	5.66	1
11031	123678-HxCDD	57653-85-7	1.49	JB	0.0803	5.66	1
11031	123789-HxCDD	19408-74-3	1.43	J	0.0632	5.66	1
11031	1234678-HpCDD	35822-46-9	39.4	B	0.0690	5.66	1
11031	OCDD	3268-87-9	528	B	0.0723	11.3	1
11031	2378-TCDF	51207-31-9	0.169	JB	0.0447	1.13	1
11031	12378-PeCDF	57117-41-6	0.0983	JBQ	0.0227	5.66	1
11031	23478-PeCDF	57117-31-4	0.404	JB	0.0247	5.66	1
11031	123478-HxCDF	70648-26-9	0.0689	U	0.0689	5.66	1
11031	123678-HxCDF	57117-44-9	0.247	JB	0.0472	5.66	1
11031	123789-HxCDF	72918-21-9	0.167	JB	0.0323	5.66	1
11031	234678-HxCDF	60851-34-5	0.213	JB	0.0277	5.66	1
11031	1234678-HpCDF	67562-39-4	3.56	JB	0.0401	5.66	1
11031	1234789-HpCDF	55673-89-7	0.281	JB	0.0378	5.66	1
11031	OCDF	39001-02-0	10.1	JB	0.0490	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208378
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5105 SDG#: DX051-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA5A-SS-0.0-0.5

LLI Sample # SW 6208378
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 13:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5105 SDG#: DX051-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 05:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208379
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5106 SDG#: DX051-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208379
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5106 SDG#: DX051-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.306 J	0.0176	1.13	1
11031	12378-PeCDD	40321-76-4	3.95 JB	0.0934	5.65	1
11031	123478-HxCDD	39227-28-6	9.53	0.181	5.65	1
11031	123678-HxCDD	57653-85-7	35.3 B	0.175	5.65	1
11031	123789-HxCDD	19408-74-3	17.3	0.125	5.65	1
11031	1234678-HpCDD	35822-46-9	1,070 B	0.227	5.65	1
11031	OCDD	3268-87-9	10,600 EB	0.294	11.3	1
11031	2378-TCDF	51207-31-9	0.491 JB	0.0267	1.13	1
11031	12378-PeCDF	57117-41-6	2.34 JB	0.0278	5.65	1
11031	23478-PeCDF	57117-31-4	3.91 JB	0.0279	5.65	1
11031	123478-HxCDF	70648-26-9	17.0 B	0.147	5.65	1
11031	123678-HxCDF	57117-44-9	5.45 JB	0.114	5.65	1
11031	123789-HxCDF	72918-21-9	6.70 B	0.0751	5.65	1
11031	234678-HxCDF	60851-34-5	7.36 B	0.0832	5.65	1
11031	1234678-HpCDF	67562-39-4	142 B	0.130	5.65	1
11031	1234789-HpCDF	55673-89-7	11.9 B	0.114	5.65	1
11031	OCDF	39001-02-0	223 B	0.0845	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	47	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208379
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5106 SDG#: DX051-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5A-SS-0.0-0.5

LLI Sample # SW 6208379
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 11:10

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5106 SDG#: DX051-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 06:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208380
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5107 SDG#: DX051-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208380
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5107 SDG#: DX051-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0346	JQ	0.0117	1.11	1
11031	12378-PeCDD	40321-76-4	0.362	JBQ	0.0256	5.53	1
11031	123478-HxCDD	39227-28-6	0.376	J	0.0739	5.53	1
11031	123678-HxCDD	57653-85-7	1.16	JB	0.0713	5.53	1
11031	123789-HxCDD	19408-74-3	1.13	J	0.0645	5.53	1
11031	1234678-HpCDD	35822-46-9	26.4	B	0.0488	5.53	1
11031	OCDD	3268-87-9	452	B	0.0768	11.1	1
11031	2378-TCDF	51207-31-9	0.223	JB	0.0363	1.11	1
11031	12378-PeCDF	57117-41-6	0.220	JBQ	0.0215	5.53	1
11031	23478-PeCDF	57117-31-4	0.352	JB	0.0225	5.53	1
11031	123478-HxCDF	70648-26-9	0.208	JBQ	0.0534	5.53	1
11031	123678-HxCDF	57117-44-9	0.207	JBQ	0.0409	5.53	1
11031	123789-HxCDF	72918-21-9	0.354	JB	0.0463	5.53	1
11031	234678-HxCDF	60851-34-5	0.259	JB	0.0366	5.53	1
11031	1234678-HpCDF	67562-39-4	2.86	JB	0.0221	5.53	1
11031	1234789-HpCDF	55673-89-7	0.212	JBQ	0.0355	5.53	1
11031	OCDF	39001-02-0	8.07	JB	0.0366	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208380
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5107 SDG#: DX051-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-032-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SS-0.0-0.5

LLI Sample # SW 6208380
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:20

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5107 SDG#: DX051-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 07:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208381
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5108 SDG#: DX051-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208381
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5108 SDG#: DX051-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0846	JQ	0.0123	1.11	1
11031	12378-PeCDD	40321-76-4	0.640	JB	0.0349	5.54	1
11031	123478-HxCDD	39227-28-6	1.12	J	0.0843	5.54	1
11031	123678-HxCDD	57653-85-7	2.96	JB	0.0831	5.54	1
11031	123789-HxCDD	19408-74-3	2.58	J	0.0776	5.54	1
11031	1234678-HpCDD	35822-46-9	85.9	B	0.0979	5.54	1
11031	OCDD	3268-87-9	1,530	B	0.0993	11.1	1
11031	2378-TCDF	51207-31-9	0.184	JBQ	0.0279	1.11	1
11031	12378-PeCDF	57117-41-6	0.195	JB	0.0186	5.54	1
11031	23478-PeCDF	57117-31-4	0.363	JBQ	0.0190	5.54	1
11031	123478-HxCDF	70648-26-9	0.941	JB	0.0587	5.54	1
11031	123678-HxCDF	57117-44-9	0.423	JB	0.0412	5.54	1
11031	123789-HxCDF	72918-21-9	0.334	JB	0.0432	5.54	1
11031	234678-HxCDF	60851-34-5	0.589	JB	0.0361	5.54	1
11031	1234678-HpCDF	67562-39-4	13.0	B	0.0372	5.54	1
11031	1234789-HpCDF	55673-89-7	0.877	JB	0.0549	5.54	1
11031	OCDF	39001-02-0	46.4	B	0.0472	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208381
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5108 SDG#: DX051-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SS-0.0-0.5

LLI Sample # SW 6208381
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 09:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5108 SDG#: DX051-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	02/27/2011 08:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11055162401A	02/24/2011 20:08	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208382
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5109 SDG#: DX051-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-332-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208382
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5109 SDG#: DX051-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0329	J	0.0154	1.10	1
11031	12378-PeCDD	40321-76-4	0.131	JBQ	0.0410	5.50	1
11031	123478-HxCDD	39227-28-6	0.175	JB	0.0592	5.50	1
11031	123678-HxCDD	57653-85-7	1.05	JB	0.0605	5.50	1
11031	123789-HxCDD	19408-74-3	0.682	JB	0.0592	5.50	1
11031	1234678-HpCDD	35822-46-9	44.3	B	0.0887	5.50	1
11031	OCDD	3268-87-9	441	B	0.125	11.0	1
11031	2378-TCDF	51207-31-9	0.136	JB	0.0479	1.10	1
11031	12378-PeCDF	57117-41-6	0.0829	JBQ	0.0318	5.50	1
11031	23478-PeCDF	57117-31-4	0.878	JBQ	0.0299	5.50	1
11031	123478-HxCDF	70648-26-9	0.470	JB	0.0453	5.50	1
11031	123678-HxCDF	57117-44-9	0.394	JB	0.0428	5.50	1
11031	123789-HxCDF	72918-21-9	0.265	JBQ	0.0523	5.50	1
11031	234678-HxCDF	60851-34-5	0.363	JB	0.0444	5.50	1
11031	1234678-HpCDF	67562-39-4	4.29	JB	0.0497	5.50	1
11031	1234789-HpCDF	55673-89-7	0.575	JB	0.0594	5.50	1
11031	OCDF	39001-02-0	7.91	JB	0.115	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	95	26 - 152
13C12-123678-HxCDF	98	26 - 123
13C12-234678-HxCDF	100	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	109	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208382
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5109 SDG#: DX051-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-332-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-332-SA5B-SB-4.0-5.0

LLI Sample # SW 6208382
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 16:16

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5109 SDG#: DX051-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11073001	03/17/2011 03:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11073001	03/14/2011 13:10	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208383
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5110 SDG#: DX051-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-333-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208383
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5110 SDG#: DX051-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0454	J	0.0157	1.14	1
11031	12378-PeCDD	40321-76-4	0.263	JBQ	0.0489	5.71	1
11031	123478-HxCDD	39227-28-6	0.652	J	0.0923	5.71	1
11031	123678-HxCDD	57653-85-7	1.20	JB	0.0913	5.71	1
11031	123789-HxCDD	19408-74-3	1.22	J	0.0899	5.71	1
11031	1234678-HpCDD	35822-46-9	48.9	B	0.110	5.71	1
11031	OCDD	3268-87-9	683	B	0.0585	11.4	1
11031	2378-TCDF	51207-31-9	0.0177	U	0.0177	1.14	1
11031	12378-PeCDF	57117-41-6	0.0591	JBQ	0.0200	5.71	1
11031	23478-PeCDF	57117-31-4	0.665	JB	0.0207	5.71	1
11031	123478-HxCDF	70648-26-9	0.961	JB	0.0866	5.71	1
11031	123678-HxCDF	57117-44-9	0.768	JB	0.0589	5.71	1
11031	123789-HxCDF	72918-21-9	0.847	JB	0.0534	5.71	1
11031	234678-HxCDF	60851-34-5	0.493	JB	0.0503	5.71	1
11031	1234678-HpCDF	67562-39-4	7.33	B	0.0566	5.71	1
11031	1234789-HpCDF	55673-89-7	0.866	JB	0.0640	5.71	1
11031	OCDF	39001-02-0	16.9	B	0.0257	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208383
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5110 SDG#: DX051-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-333-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-333-SA5B-SB-4.0-5.0

LLI Sample # SW 6208383
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 12:30

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5110 SDG#: DX051-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/04/2011 12:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208384
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5111 SDG#: DX051-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-335-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208384
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5111 SDG#: DX051-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0105 U	0.0105	1.09	1
11031	12378-PeCDD	40321-76-4	0.0177 JBQ	0.0121	5.47	1
11031	123478-HxCDD	39227-28-6	0.0252 U	0.0252	5.47	1
11031	123678-HxCDD	57653-85-7	0.212 JB	0.0223	5.47	1
11031	123789-HxCDD	19408-74-3	0.242 J	0.0171	5.47	1
11031	1234678-HpCDD	35822-46-9	1.32 JB	0.0322	5.47	1
11031	OCDD	3268-87-9	14.6 B	0.0199	10.9	1
11031	2378-TCDF	51207-31-9	0.00864 U	0.00864	1.09	1
11031	12378-PeCDF	57117-41-6	0.0174 JBQ	0.00580	5.47	1
11031	23478-PeCDF	57117-31-4	0.0519 JBQ	0.00667	5.47	1
11031	123478-HxCDF	70648-26-9	0.0298 JB	0.0231	5.47	1
11031	123678-HxCDF	57117-44-9	0.126 JBQ	0.0164	5.47	1
11031	123789-HxCDF	72918-21-9	0.0662 JBQ	0.00974	5.47	1
11031	234678-HxCDF	60851-34-5	0.0194 JB	0.00842	5.47	1
11031	1234678-HpCDF	67562-39-4	0.150 JB	0.0196	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0511 JB	0.0129	5.47	1
11031	OCDF	39001-02-0	0.328 JBQ	0.0193	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208384
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5111 SDG#: DX051-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-335-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-335-SA5B-SB-2.0-3.0

LLI Sample # SW 6208384
LLI Group # 1233568
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/16/2011 10:57

Submitted: 02/17/2011 08:45
Reported: 03/23/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5111 SDG#: DX051-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11054001	03/04/2011 13:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11054001	02/23/2011 11:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233568
Reported: 03/23/11 at 08:40 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11055162401A	Sample number(s): 6208374-6208381								
28a Moisture Content by 160.3					99		80-120		
Batch number: 11061162401B	Sample number(s): 6208382-6208384								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11054001	Sample number(s): 6208374-6208381,6208383-6208384								
2378-TCDD	0.00940 U	0.00940	1.00	ng/kg	111		67-158		
12378-PeCDD	0.0223 J	0.00940	5.00	ng/kg	113		70-142		
123478-HxCDD	0.00940 U	0.00940	5.00	ng/kg	112		70-164		
123678-HxCDD	0.0141 J	0.00960	5.00	ng/kg	109		76-134		
123789-HxCDD	0.00920 U	0.00920	5.00	ng/kg	110		64-162		
1234678-HpCDD	0.119 J	0.0138	5.00	ng/kg	108		70-140		
OCDD	0.303 J	0.0185	10.0	ng/kg	106		78-144		
2378-TCDF	0.0106 J	0.00690	1.00	ng/kg	124		75-158		
12378-PeCDF	0.0154 J	0.00530	5.00	ng/kg	109		80-134		
23478-PeCDF	0.0405 J	0.00530	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0161 J	0.00660	5.00	ng/kg	109		72-134		
123678-HxCDF	0.0176 J	0.00570	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0361 J	0.00650	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0143 J	0.00560	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.0451 J	0.00530	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0280 J	0.00830	5.00	ng/kg	105		78-138		
OCDF	0.133 J	0.0169	10.0	ng/kg	106		63-170		
Batch number: 11073001	Sample number(s): 6208382								
2378-TCDD	0.00850 U	0.00850	1.00	ng/kg	87		67-158		
12378-PeCDD	0.0159 J	0.00920	5.00	ng/kg	88		70-142		
123478-HxCDD	0.00942 J	0.00930	5.00	ng/kg	86		70-164		
123678-HxCDD	0.0267 J	0.00950	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0153 J	0.00880	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.208 J	0.0138	5.00	ng/kg	86		70-140		
OCDD	0.397 J	0.0113	10.0	ng/kg	87		78-144		
2378-TCDF	0.0133 J	0.00870	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0184 J	0.00490	5.00	ng/kg	84		80-134		
23478-PeCDF	0.0583 J	0.00520	5.00	ng/kg	84		68-160		
123478-HxCDF	0.0547 J	0.0101	5.00	ng/kg	86		72-134		
123678-HxCDF	0.0394 J	0.00790	5.00	ng/kg	85		84-130		
123789-HxCDF	0.0578 J	0.0111	5.00	ng/kg	85		78-130		
234678-HxCDF	0.0651 J	0.00870	5.00	ng/kg	86		70-156		
1234678-HpCDF	0.181 J	0.00630	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0599 J	0.0120	5.00	ng/kg	87		78-138		
OCDF	0.242 J	0.0177	10.0	ng/kg	85		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233568
Reported: 03/23/11 at 08:40 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11055162401A	Sample number(s): 6208374-6208381					BKG: P208348			
28a Moisture Content by 160.3						9.6	6.7	35*	20
Batch number: 11061162401B	Sample number(s): 6208382-6208384					BKG: P206985			
28a Moisture Content by 160.3						8.3	9.2	10	20
Batch number: 11054001	Sample number(s): 6208374-6208381,6208383-6208384					UNSPK: P210687			
2378-TCDD	104	105	67-158	0	25				
12378-PeCDD	104	103	70-142	1	25				
123478-HxCDD	106	103	70-164	3	25				
123678-HxCDD	106	103	76-134	3	25				
123789-HxCDD	107	104	64-162	2	25				
1234678-HpCDD	128	85	70-140	22	25				
OCDD	231 (2)	245 (2)	78-144	2	25				
2378-TCDF	111	111	75-158	0	25				
12378-PeCDF	103	103	80-134	0	25				
23478-PeCDF	104	103	68-160	1	25				
123478-HxCDF	103	104	72-134	1	25				
123678-HxCDF	105	103	84-130	2	25				
123789-HxCDF	104	105	78-130	1	25				
234678-HxCDF	104	104	70-156	0	25				
1234678-HpCDF	105	105	82-122	0	25				
1234789-HpCDF	104	103	78-138	1	25				
OCDF	113	118	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11054001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6208374	74	21	5*	7*	30	62
6208375	80	81	45	62	85	76
6208376	94	104	58	77	101	96
6208377	79	91	70	88	86	73
6208378	81	81	35	49	85	78
6208379	80	84	44	56	86	76
6208380	76	84	57	71	81	68
6208381	73	79	49	66	76	69
6208383	85	87	49	68	82	82
6208384	88	76	32	43	81	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233568
Reported: 03/23/11 at 08:40 AM

Surrogate Quality Control

Blank	70	78	68	79	78	75
MS	79	87	63	75	78	76
MSD	83	87	56	72	80	79
OPR	70	76	39	57	74	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6208374	7*	27	17	21*	27	12*
6208375	55	61	48	87	76	68
6208376	71	78	60	108	97	83
6208377	87	55	40	95	85	79
6208378	48	58	39	87	80	60
6208379	47	63	46	89	80	65
6208380	78	55	41	88	80	70
6208381	69	54	41	90	74	66
6208383	70	73	65	93	88	78
6208384	43	73	56	86	86	57
Blank	74	56	44	88	73	72
MS	85	75	69	92	88	77
MSD	80	75	70	93	89	80
OPR	52	52	39	85	73	60
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6208374	14*	41	22*	24	56	36
6208375	74	78	65	53	88	89
6208376	87	91	78	64	107	111
6208377	78	78	66	51	89	106
6208378	66	78	63	50	91	94
6208379	73	80	63	51	92	91
6208380	72	76	65	53	86	96
6208381	71	72	62	50	79	87
6208383	83	84	82	77	84	93
6208384	69	86	76	72	86	90
Blank	73	72	60	48	78	84
MS	78	81	83	81	77	92
MSD	81	84	77	81	79	93
OPR	67	70	60	48	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11073001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6208382	93	84	95	98	100	95
Blank	67	58	54	67	58	51
OPR	79	65	60	75	67	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233568
Reported: 03/23/11 at 08:40 AM

Surrogate Quality Control

(CRS)

6208382	82	76	44	109	82	95
Blank	81	47	43	90	70	72
OPR	87	52	48	92	79	83
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6208382	97	95	77	52	89	83
Blank	74	73	72	67	57	66
OPR	81	81	79	74	66	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1233568 sample# 6208374-84

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	**Moisture EPA 160.3 (Analyze as per #)	**Asbestos EPA 600/R-93/116 (Analyze as per #)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-024-SA5A-SS-0.0-0.5	2.16.2011	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-024-SA5A-SS-0.0-0.5	2.16.2011	0930	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-025-SA5A-SS-0.0-0.5	2.16.2011	1328	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-025-SA5A-SS-0.0-0.5	2.16.2011	1328	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-026-SA5A-SS-0.0-0.5	2.16.2011	1045	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X														
SL-026-SA5A-SS-0.0-0.5	2.16.2011	1045	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-028-SA5A-SS-0.0-0.5	2.16.2011	1255	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-028-SA5A-SS-0.0-0.5	2.16.2011	1255	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-029-SA5A-SS-0.0-0.5	2.16.2011	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-029-SA5A-SS-0.0-0.5	2.16.2011	1310	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-031-SA5A-SS-0.0-0.5	2.16.2011	1110	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-031-SA5A-SS-0.0-0.5	2.16.2011	1110	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-032-SA5A-SS-0.0-0.5	2.16.2011	0920	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-032-SA5A-SS-0.0-0.5	2.16.2011	0920	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-041-SA5A-SS-0.0-0.5	2.16.2011	930	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-041-SA5A-SS-0.0-0.5	2.16.2011	930	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-332-SA5B-SB-4.0-5.0	2.16.2011	1616	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-332-SA5B-SB-4.5	2.16.2011	1610	SOIL	NONE	5-Encores											X	X	X											
SL-333-SA5B-SB-4.0-5.0	2.16.2011	1230	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-333-SA5B-SB-4.5	2.16.2011	1226	SOIL	NONE	5-Encores											X	X	X											
SL-335-SA5B-SB-2.0-3.0	2.16.2011	1057	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-335-SA5B-SB-2.5	2.16.2011	1050	SOIL	NONE	5-Encores											X	X	X											
TB-021611	2.16.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature)

Date/Time: 02/16/2011 / 17:00

Received for Laboratory by: (Signature) 2/17/11 845

Received by: (Signature)

Date/Time

Airbill No.(s): 8695 1432 3130, ...3140

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/18/2011
Group Number: 1233760
SDG: DE084
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-021-SA5A-SS-0.0-0.5 Soil	6209557
SL-022-SA5A-SS-0.0-0.5 Soil	6209558
SL-035-SA5A-SS-0.0-0.5 Soil	6209559
SL-036-SA5A-SS-0.0-0.5 Soil	6209560
SL-037-SA5A-SS-0.0-0.5 Soil	6209561
SL-040-SA5A-SS-0.0-0.5 Soil	6209562
SL-050-SA5A-SS-0.0-0.5 Soil	6209563
SL-051-SA5A-SS-0.0-0.5 Soil	6209564
SL-321-SA5B-SB-3.0-4.0 Soil	6209565
SL-322-SA5B-SB-3.0-4.0 Soil	6209566
SL-331-SA5B-SB-3.0-4.0 Soil	6209567
SL-336-SA5B-SB-4.0-5.0 Soil	6209568
SL-337-SA5B-SB-3.0-4.0 Soil	6209569
TB-021711 Water	6209570

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	6.7	U	6.7	6.7		1
10401	Dicamba	1918-00-9	1.1	J	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	U	1.3	1.9		1
10401	MCPA	94-74-6	160	U	160	280		1
10401	MCPP (Mecoprop)	93-65-2	410		84	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.69		0.084	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP was detected in the method blank at a concentration of 350 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction were within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.11	J	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.073	U	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.60	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.60	22.3		1
07914	Boron	7440-42-8	0.991	U	0.991	5.57		1
01650	Calcium	7440-70-2	2,290		6.83	22.3		1
01654	Iron	7439-89-6	19,300		5.24	22.3		1
01656	Lithium	7439-93-2	21.8		0.24	2.2		1
01657	Magnesium	7439-95-4	3,760		2.83	11.1		1
06958	Manganese	7439-96-5	317		0.0869	0.557		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	368		0.624	11.1		1
01662	Potassium	7440-09-7	3,140		20.0	55.7		1
01667	Sodium	7440-23-5	80.8	J	41.5	111		1
07968	Strontium	7440-24-6	20.3		0.0690	0.557		1
06969	Tin	7440-31-5	2.65	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,100		0.423	1.11		1
10146	Zirconium	7440-67-7	3.82	J	0.935	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.207	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.48		0.0873	0.437		2
06126	Barium	7440-39-3	123		0.118	0.437		2
06127	Beryllium	7440-41-7	0.703		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.288		0.0445	0.111		2
06131	Chromium	7440-47-3	20.7		0.131	0.437		2
06132	Cobalt	7440-48-4	6.49		0.0218	0.109		2
06133	Copper	7440-50-8	10.6		0.0721	0.437		2
06135	Lead	7439-92-1	10.1		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.722		0.0546	0.109		2
06139	Nickel	7440-02-0	13.6		0.109	0.437		2
06141	Selenium	7782-49-2	0.149	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0688	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.328		0.0334	0.111		2
06148	Vanadium	7440-62-2	39.0		0.0240	0.109		2
06149	Zinc	7440-66-6	66.1		0.611	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	318		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8401 SDG#: DE084-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 04:38	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 03:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/01/2011 00:45	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 18:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 08:30	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-021-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209557
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8401 SDG#: DE084-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 08:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 21:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 14:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 15:49	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-022-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	3.8	U	3.8	3.8		1
10401	Dicamba	1918-00-9	1.2	J	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	1,500	U	1,500	1,500		1
10401	MCPP (Mecoprop)	93-65-2	100	J	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
MCPP was detected in the method blank at a concentration of 350 ug/kg. A reextraction was performed outside the sample hold time. Results from the reextraction were within the QC limits. Similar results were obtained in both extractions. The original, in hold, trial is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	1.0		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.81		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	J	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.11	J	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.3	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.2	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.38		1
01650	Calcium	7440-70-2	2,640		6.59	21.5		1
01654	Iron	7439-89-6	20,600		5.06	21.5		1
01656	Lithium	7439-93-2	22.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,050		2.73	10.8		1
06958	Manganese	7439-96-5	327		0.0839	0.538		1

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Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	428		0.602	10.8		1
01662	Potassium	7440-09-7	3,290		19.4	53.8		1
01667	Sodium	7440-23-5	96.9	J	40.1	108		1
07968	Strontium	7440-24-6	21.4		0.0667	0.538		1
06969	Tin	7440-31-5	2.76	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,120		0.409	1.08		1
10146	Zirconium	7440-67-7	2.71	J	0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0843	0.422		2
06126	Barium	7440-39-3	127		0.114	0.422		2
06127	Beryllium	7440-41-7	0.688		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.107	J	0.0430	0.108		2
06131	Chromium	7440-47-3	21.9		0.126	0.422		2
06132	Cobalt	7440-48-4	6.93		0.0211	0.105		2
06133	Copper	7440-50-8	11.4		0.0696	0.422		2
06135	Lead	7439-92-1	14.0		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.812		0.0527	0.105		2
06139	Nickel	7440-02-0	14.3		0.105	0.422		2
06141	Selenium	7782-49-2	0.127	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.168		0.0126	0.105		2
06145	Thallium	7440-28-0	0.379		0.0323	0.108		2
06148	Vanadium	7440-62-2	41.2		0.0232	0.105		2
06149	Zinc	7440-66-6	74.6		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0113	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	356		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8402 SDG#: DE084-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 05:56	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 04:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/01/2011 01:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 18:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 09:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209558
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8402 SDG#: DE084-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 08:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 22:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 15:36	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 16:02	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-035-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209559
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8403 SDG#: DE084-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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E8403 SDG#: DE084-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	J	0.35	1.8		1
10138	Anthracene	120-12-7	0.55	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.2		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.5		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.4	J	6.4	19		1
10138	Chrysene	218-01-9	5.5		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	4.5		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.78	J	0.71	1.8		1
10138	Naphthalene	91-20-3	0.77	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	2.3		0.71	1.8		1
10138	Pyrene	129-00-0	3.9		0.71	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	8.4	U	8.4	8.4		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	1,200	U	1,200	1,200		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

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E8403 SDG#: DE084-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.23	20.8		1
07914	Boron	7440-42-8	0.926	U	0.926	5.20		1
01650	Calcium	7440-70-2	1,970		6.38	20.8		1
01654	Iron	7439-89-6	16,600		4.90	20.8		1
01656	Lithium	7439-93-2	15.1		0.23	2.1		1
01657	Magnesium	7439-95-4	3,290		2.64	10.4		1
06958	Manganese	7439-96-5	348		0.0812	0.520		1
10145	Phosphorus	7723-14-0	346		0.583	10.4		1
01662	Potassium	7440-09-7	3,590		18.7	52.0		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	91.6	J	38.8	104		1
07968	Strontium	7440-24-6	19.5		0.0645	0.520		1
06969	Tin	7440-31-5	2.46	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,120		0.395	1.04		1
10146	Zirconium	7440-67-7	2.72	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.234		0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.68		0.0841	0.420		2
06126	Barium	7440-39-3	126		0.113	0.420		2
06127	Beryllium	7440-41-7	0.597		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.456		0.0424	0.106		2
06131	Chromium	7440-47-3	21.1		0.126	0.420		2
06132	Cobalt	7440-48-4	7.14		0.0210	0.105		2
06133	Copper	7440-50-8	11.9		0.0693	0.420		2
06135	Lead	7439-92-1	13.1		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.887		0.0525	0.105		2
06139	Nickel	7440-02-0	14.0		0.105	0.420		2
06141	Selenium	7782-49-2	0.131	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0723	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.360		0.0318	0.106		2
06148	Vanadium	7440-62-2	38.0		0.0231	0.105		2
06149	Zinc	7440-66-6	69.5		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	404		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.70		0.0100	0.0100		1

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Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011	06:22	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011	05:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011	08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011	08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/01/2011	01:39	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011	19:16	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011	10:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011	18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011	18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011	03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011	08:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011	11:42	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-035-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209559
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8403 SDG#: DE084-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 23:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 16:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 16:20	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.50	J	0.36	1.8		1
10138	Anthracene	120-12-7	1.2	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.4		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.4		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	7.3		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.6		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.2	J	6.5	20		1
10138	Chrysene	218-01-9	8.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.86	J	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	7.1		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.75	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	2.6		0.72	1.8		1
10138	Pyrene	129-00-0	5.9		0.72	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	3.8	U	3.8	3.8		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	83	U	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: 2,4-DB.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.3	U	2.3	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	1.2		0.072	0.37		1
01363	p,p-DDT	50-29-3	1.9		0.072	0.37		1
01363	Delta BHC	319-86-8	0.068	U	0.068	0.18		1
01363	Dieldrin	60-57-1	0.26	J	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.049	J	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: delta-BHC and technical chlordane.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2		2
10225	Aroclor 5460	11126-42-4	8.6		2.2	7.2		2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7		2
10225	PCB-1221	11104-28-2	0.72	U	0.72	3.7		2
10225	PCB-1232	11141-16-5	0.72	U	0.72	3.7		2
10225	PCB-1242	53469-21-9	0.72	U	0.72	3.7		2
10225	PCB-1248	12672-29-6	0.72	U	0.72	3.7		2
10225	PCB-1254	11097-69-1	0.72	U	0.72	3.7		2
10225	PCB-1260	11096-82-5	5.4		0.86	3.7		2
10225	PCB-1262	37324-23-5	0.72	U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72	U	0.72	3.7		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.47	21.7		1
07914	Boron	7440-42-8	0.967	U	0.967	5.43		1
01650	Calcium	7440-70-2	6,160		6.66	21.7		1
01654	Iron	7439-89-6	19,600		5.12	21.7		1
01656	Lithium	7439-93-2	19.0		0.24	2.2		1
01657	Magnesium	7439-95-4	3,880		2.76	10.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	334		0.0848	0.543		1
10145	Phosphorus	7723-14-0	436		0.609	10.9		1
01662	Potassium	7440-09-7	3,560		19.6	54.3		1
01667	Sodium	7440-23-5	89.1	J	40.5	109		1
07968	Strontium	7440-24-6	22.8		0.0674	0.543		1
06969	Tin	7440-31-5	2.64	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,080		0.413	1.09		1
10146	Zirconium	7440-67-7	3.54	J	0.913	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.315		0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.95		0.0869	0.435		2
06126	Barium	7440-39-3	166		0.117	0.435		2
06127	Beryllium	7440-41-7	0.658		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.732		0.0426	0.107		2
06131	Chromium	7440-47-3	28.1		0.130	0.435		2
06132	Cobalt	7440-48-4	8.66		0.0217	0.109		2
06133	Copper	7440-50-8	18.4		0.0717	0.435		2
06135	Lead	7439-92-1	27.3		0.0113	0.217		2
06138	Molybdenum	7439-98-7	1.00		0.0543	0.109		2
06139	Nickel	7440-02-0	18.9		0.109	0.435		2
06141	Selenium	7782-49-2	0.124	J	0.0435	0.435		2
06142	Silver	7440-22-4	0.0837	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.361		0.0320	0.107		2
06148	Vanadium	7440-62-2	54.8		0.0239	0.109		2
06149	Zinc	7440-66-6	105		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	13.8	J	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	395		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8404 SDG#: DE084-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.90	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 09:39	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 05:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 15:41	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 19:30	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 10:26	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209560
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8404 SDG#: DE084-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 08:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 23:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 16:48	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 16:45	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	120	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-037-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.56	J	0.36	1.8		1
10138	Anthracene	120-12-7	1.1	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.9		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.2		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	9.1		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.5		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.1		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.5	J	6.5	19		1
10138	Chrysene	218-01-9	9.7		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.99	J	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	7.9		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.81	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	3.1		0.72	1.8		1
10138	Pyrene	129-00-0	6.8		0.72	1.8		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	3.4	U	3.4	3.4		1
10401	Dicamba	1918-00-9	1.3		0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	1,100		82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	6.5		0.36	0.89		5
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.0	U	2.0	3.7		1
01363	p,p-DDD	72-54-8	0.42		0.071	0.37		1
01363	p,p-DDE	72-55-9	4.8		0.36	1.8		5
01363	p,p-DDT	50-29-3	13		0.36	1.8		5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	2.3		0.071	0.37		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.15	J	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.28	J	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.092	J	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.30	J	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Due to interfering peaks on the chromatogram, the values reported for technical chlordane represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.1		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.1		2
10225	Aroclor 5460	11126-42-4	11		2.2	7.1		2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.7		2
10225	PCB-1221	11104-28-2	0.71	U	0.71	3.7		2
10225	PCB-1232	11141-16-5	0.71	U	0.71	3.7		2
10225	PCB-1242	53469-21-9	0.71	U	0.71	3.7		2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.7		2
10225	PCB-1254	11097-69-1	11		0.71	3.7		2
10225	PCB-1260	11096-82-5	7.0		0.84	3.7		2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.7		2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.7		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.21	20.7		1
07914	Boron	7440-42-8	0.921	U	0.921	5.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	5,260		6.34	20.7		1
01654	Iron	7439-89-6	19,000		4.87	20.7		1
01656	Lithium	7439-93-2	19.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,880		2.63	10.4		1
06958	Manganese	7439-96-5	319		0.0807	0.518		1
10145	Phosphorus	7723-14-0	444		0.580	10.4		1
01662	Potassium	7440-09-7	3,640		18.6	51.8		1
01667	Sodium	7440-23-5	81.3	J	38.6	104		1
07968	Strontium	7440-24-6	20.7		0.0642	0.518		1
06969	Tin	7440-31-5	2.54	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,090		0.393	1.04		1
10146	Zirconium	7440-67-7	3.47	J	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.276		0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.26		0.0853	0.426		2
06126	Barium	7440-39-3	154		0.115	0.426		2
06127	Beryllium	7440-41-7	0.684		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.628		0.0418	0.105		2
06131	Chromium	7440-47-3	29.4		0.128	0.426		2
06132	Cobalt	7440-48-4	8.75		0.0213	0.107		2
06133	Copper	7440-50-8	17.6		0.0703	0.426		2
06135	Lead	7439-92-1	39.0		0.0111	0.213		2
06138	Molybdenum	7439-98-7	1.21		0.0533	0.107		2
06139	Nickel	7440-02-0	18.6		0.107	0.426		2
06141	Selenium	7782-49-2	0.116	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0828	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.346		0.0314	0.105		2
06148	Vanadium	7440-62-2	53.9		0.0234	0.107		2
06149	Zinc	7440-66-6	116		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0117	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8405 SDG#: DE084-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	398	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 10:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 06:34	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/01/2011 02:35	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110540019A	03/02/2011 15:05	Jenifer E Hess	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 19:44	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	03/02/2011 09:49	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 10:49	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110540019A	02/24/2011 09:05	Maria Davenport	1

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Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E8405 SDG#: DE084-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 08:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 10:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 10:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 23:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 17:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 16:58	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1

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Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209561
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8405 SDG#: DE084-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-040-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.70	J	0.37	1.8		1
10138	Anthracene	120-12-7	1.2	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.0		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.3		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.1		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	5.4		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	8.6	J	6.6	20		1
10138	Chrysene	218-01-9	5.4		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	22		6.6	20		1
10138	Fluoranthene	206-44-0	6.3		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.90	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	3.1		0.73	1.8		1
10138	Pyrene	129-00-0	4.7		0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 9.5 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	1.2	U	1.2	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	110	U	110	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
When the concentration detected on the primary and confirmation

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37		1
01363	p,p-DDT	50-29-3	0.072	U	0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.098	J	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.35	21.3		1
07914	Boron	7440-42-8	0.946	U	0.946	5.32		1
01650	Calcium	7440-70-2	2,430		6.52	21.3		1
01654	Iron	7439-89-6	19,900		5.01	21.3		1
01656	Lithium	7439-93-2	19.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,960		2.70	10.6		1
06958	Manganese	7439-96-5	361		0.0829	0.532		1
10145	Phosphorus	7723-14-0	405		0.595	10.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	3,860		19.1	53.2		1
01667	Sodium	7440-23-5	78.8	J	39.7	106		1
07968	Strontium	7440-24-6	20.5		0.0659	0.532		1
06969	Tin	7440-31-5	2.68	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,200		0.404	1.06		1
10146	Zirconium	7440-67-7	3.60	J	0.893	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.66		0.0859	0.430		2
06126	Barium	7440-39-3	130		0.116	0.430		2
06127	Beryllium	7440-41-7	0.596		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.201		0.0425	0.106		2
06131	Chromium	7440-47-3	22.6		0.129	0.430		2
06132	Cobalt	7440-48-4	6.48		0.0215	0.107		2
06133	Copper	7440-50-8	12.5		0.0709	0.430		2
06135	Lead	7439-92-1	16.1		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.856		0.0537	0.107		2
06139	Nickel	7440-02-0	14.5		0.107	0.430		2
06141	Selenium	7782-49-2	0.111	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0487	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.269		0.0319	0.106		2
06148	Vanadium	7440-62-2	38.9		0.0236	0.107		2
06149	Zinc	7440-66-6	70.6		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8406 SDG#: DE084-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.74	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 10:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 07:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 16:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 19:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 11:12	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209562
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8406 SDG#: DE084-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 11:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 11:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 11:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/03/2011 23:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 17:36	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 17:10	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	380		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1

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Sample Description: SL-050-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.20	J	0.073	0.37		1
01363	p,p-DDT	50-29-3	0.24	J	0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Due to interfering peaks on the chromatogram, the values reported technical chlordane represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.4	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.3		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.44	21.6		1
07914	Boron	7440-42-8	0.962	U	0.962	5.40		1
01650	Calcium	7440-70-2	3,090		6.63	21.6		1
01654	Iron	7439-89-6	19,800		5.09	21.6		1
01656	Lithium	7439-93-2	22.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,220		2.75	10.8		1
06958	Manganese	7439-96-5	351		0.0843	0.540		1
10145	Phosphorus	7723-14-0	418		0.605	10.8		1
01662	Potassium	7440-09-7	3,440		19.5	54.0		1
01667	Sodium	7440-23-5	81.1	J	40.3	108		1

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Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	24.1		0.0670	0.540		1
06969	Tin	7440-31-5	2.39	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,130		0.411	1.08		1
10146	Zirconium	7440-67-7	3.09	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.56		0.0856	0.428		2
06126	Barium	7440-39-3	125		0.116	0.428		2
06127	Beryllium	7440-41-7	0.634		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.227		0.0432	0.108		2
06131	Chromium	7440-47-3	22.3		0.128	0.428		2
06132	Cobalt	7440-48-4	6.58		0.0214	0.107		2
06133	Copper	7440-50-8	11.8		0.0706	0.428		2
06135	Lead	7439-92-1	10.6		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.782		0.0535	0.107		2
06139	Nickel	7440-02-0	15.4		0.107	0.428		2
06141	Selenium	7782-49-2	0.133	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0559	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.262		0.0324	0.108		2
06148	Vanadium	7440-62-2	39.5		0.0235	0.107		2
06149	Zinc	7440-66-6	70.8		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	450		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.55		0.0100	0.0100		1

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Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8407 SDG#: DE084-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 10:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/26/2011 07:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110570005A	03/05/2011 16:36	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 20:13	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 11:36	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	110570005A	02/28/2011 03:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:06	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209563
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8407 SDG#: DE084-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/15/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/04/2011 00:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 18:00	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 17:23	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

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Suite 210
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E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.85	J	0.37	1.8		1
10138	Anthracene	120-12-7	2.1		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.0		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.6		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.6		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	6.0		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	9.8		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.6	20		1
10138	Phenanthrene	85-01-8	5.0		0.74	1.8		1
10138	Pyrene	129-00-0	7.5		0.74	1.8		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	13	U	13	13		1
10401	Dicamba	1918-00-9	2.2		0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.5		0.89	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.63		0.083	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: 2,4-DB.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.18	J	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.15	J	0.073	0.38		1
01363	p,p-DDT	50-29-3	0.31	J	0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.12	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.083	J	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.99	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.38		1
01650	Calcium	7440-70-2	2,600		6.59	21.5		1
01654	Iron	7439-89-6	21,600		5.06	21.5		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,290		2.73	10.8		1
06958	Manganese	7439-96-5	386		0.0839	0.538		1
10145	Phosphorus	7723-14-0	403		0.602	10.8		1
01662	Potassium	7440-09-7	3,990		19.4	53.8		1
01667	Sodium	7440-23-5	90.0	J	40.1	108		1
07968	Strontium	7440-24-6	22.0		0.0667	0.538		1

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.56	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,260		0.409	1.08		1
10146	Zirconium	7440-67-7	3.84	J	0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.183	J	0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0860	0.430		2
06126	Barium	7440-39-3	150		0.116	0.430		2
06127	Beryllium	7440-41-7	0.706		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.221		0.0434	0.109		2
06131	Chromium	7440-47-3	27.2		0.129	0.430		2
06132	Cobalt	7440-48-4	8.04		0.0215	0.108		2
06133	Copper	7440-50-8	15.7		0.0710	0.430		2
06135	Lead	7439-92-1	18.9		0.0112	0.215		2
06138	Molybdenum	7439-98-7	1.07		0.0538	0.108		2
06139	Nickel	7440-02-0	18.1		0.108	0.430		2
06141	Selenium	7782-49-2	0.146	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0712	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.273		0.0326	0.109		2
06148	Vanadium	7440-62-2	46.5		0.0237	0.108		2
06149	Zinc	7440-66-6	95.8		0.602	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	472		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.59		0.0100	0.0100		1

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8408 SDG#: DE084-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 11:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 00:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110540018A	02/25/2011 01:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110530014A	02/28/2011 20:27	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 11:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	110530014A	02/22/2011 18:15	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110540018A	02/23/2011 23:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:10	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209564
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8408 SDG#: DE084-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/04/2011 00:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 18:24	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 17:29	Carrie E Miller	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.94
06192	Methylene Chloride	75-09-2	1.4	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.94

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		25.25
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.8
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	910	U	910	2,300		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	8.0	U	8.0	14		1
08283	Ethylene glycol	107-21-1	9.1	U	9.1	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: **SL-321-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.56	22.1		1
07914	Boron	7440-42-8	4.92	U	4.92	27.6		5
	Reporting limits for boron were raised due to interference from the sample matrix.							
01650	Calcium	7440-70-2	4,380		6.78	22.1		1
01654	Iron	7439-89-6	39,200		26.0	111		5
01656	Lithium	7439-93-2	27.2		0.24	2.2		1
01657	Magnesium	7439-95-4	7,390		2.81	11.1		1
06958	Manganese	7439-96-5	239		0.0863	0.553		1
10145	Phosphorus	7723-14-0	405		0.619	11.1		1
01662	Potassium	7440-09-7	4,530		19.9	55.3		1
01667	Sodium	7440-23-5	700		41.2	111		1
07968	Strontium	7440-24-6	33.1		0.0686	0.553		1
06969	Tin	7440-31-5	4.03	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,620		0.420	1.11		1
10146	Zirconium	7440-67-7	2.02	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.121	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.5		0.0893	0.447		2
06126	Barium	7440-39-3	164		0.121	0.447		2
06127	Beryllium	7440-41-7	1.28		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0673	J	0.0451	0.113		2
06131	Chromium	7440-47-3	43.5		0.134	0.447		2
06132	Cobalt	7440-48-4	7.61		0.0223	0.112		2
06133	Copper	7440-50-8	31.8		0.0737	0.447		2
06135	Lead	7439-92-1	19.4		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.788		0.0558	0.112		2
06139	Nickel	7440-02-0	18.1		0.112	0.447		2
06141	Selenium	7782-49-2	0.166	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0549	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.390		0.0338	0.113		2
06148	Vanadium	7440-62-2	74.5		0.0246	0.112		2
06149	Zinc	7440-66-6	180		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	458		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-321-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110491AA	02/18/2011 22:30	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 14:46	Jason M Long	25.25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:00	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 00:48	Timothy J Trees	1

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 11:45	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 01:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 14:26	Marie D John	24.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 14:59	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 16:20	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 12:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 01:17	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 21:03	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 19:03	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/24/2011 21:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 11:01	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 11:01	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:07	Choon Y Tian	2

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Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209565
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8409 SDG#: DE084-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 16:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/04/2011 00:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201A	03/04/2011 00:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 18:48	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 17:47	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:40	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101A	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401A	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.98
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.1	J	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.98
06192	Methylene Chloride	75-09-2	0.54	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.27	J	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.8	U	17.8	35.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

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E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.5	U	7.5	13		1
08283	Ethylene glycol	107-21-1	7.5	U	7.5	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1

Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.37	21.4		1
07914	Boron	7440-42-8	0.951	U	0.951	5.34		1
01650	Calcium	7440-70-2	1,320		6.55	21.4		1
01654	Iron	7439-89-6	18,100		5.03	21.4		1
01656	Lithium	7439-93-2	14.4		0.24	2.1		1
01657	Magnesium	7439-95-4	2,730		2.71	10.7		1
06958	Manganese	7439-96-5	149		0.0833	0.534		1
10145	Phosphorus	7723-14-0	147		0.598	10.7		1
01662	Potassium	7440-09-7	2,690		19.2	53.4		1
01667	Sodium	7440-23-5	502		39.9	107		1
07968	Strontium	7440-24-6	11.1		0.0662	0.534		1
06969	Tin	7440-31-5	2.97	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,020		0.406	1.07		1
10146	Zirconium	7440-67-7	1.45	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0858	J	0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.73		0.0838	0.419		2
06126	Barium	7440-39-3	80.7		0.113	0.419		2
06127	Beryllium	7440-41-7	0.512		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0419	U	0.0419	0.105		2
06131	Chromium	7440-47-3	9.28		0.126	0.419		2
06132	Cobalt	7440-48-4	4.37		0.0209	0.105		2
06133	Copper	7440-50-8	2.76		0.0691	0.419		2
06135	Lead	7439-92-1	6.38		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.580		0.0524	0.105		2
06139	Nickel	7440-02-0	4.37		0.105	0.419		2
06141	Selenium	7782-49-2	0.0752	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0188	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.252		0.0314	0.105		2
06148	Vanadium	7440-62-2	24.6		0.0230	0.105		2
06149	Zinc	7440-66-6	80.6		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8410 SDG#: DE084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	322		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	6.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-322-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110491AA	02/18/2011 22:53	Laura M Krieger	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 15:06	Jason M Long	24.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:07	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 01:04	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 12:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 01:56	Gregory J Drahovsky	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8410 SDG#: DE084-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 15:03	Marie D John	24.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:07	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 17:02	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:38	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 12:45	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 01:42	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 21:18	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 19:20	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/24/2011 22:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2

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Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209566
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8410 SDG#: DE084-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 17:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201A	03/04/2011 01:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201A	03/04/2011 01:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201A	02/28/2011 19:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 18:56	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:10	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201A	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201A	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		1.08
06192	Benzene	71-43-2	0.18	J	0.12	4.6		1.08
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.08
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.08
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.08
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.08
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.08
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1.08
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.08
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.08
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		1.08
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.08
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.08
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.08
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1.08
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.08
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.08
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.08
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.08
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.08
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1.08
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.08
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.08
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.08
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.08
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.08
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		1.08
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.08
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.08
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.08
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.08
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.08
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.08
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.08
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.08
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.08
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.08
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		1.08
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.08
06192	Ethylbenzene	100-41-4	0.17	J	0.07	4.6		1.08
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.08
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.08
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.08
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1.08
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.08
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.08
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.08
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1.08
06192	Methylene Chloride	75-09-2	0.80	J	0.28	4.6		1.08
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.08

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Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.08
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.08
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1.08
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.08
06192	Toluene	108-88-3	0.14	J	0.09	4.6		1.08
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.08
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.08
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.08
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.08
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.08
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1.08
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.08
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.08
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.08
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.08
06192	m+p-Xylene	179601-23-1	0.56	J	0.20	4.6		1.08
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.08
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.22
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.2	J	17.9	35.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
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Project Name: SSFL Area IV Collocated Soil Sampling

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E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.48	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.5	U	7.5	13		1
08283	Ethylene glycol	107-21-1	7.5	U	7.5	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1

Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

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E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.36	21.3		1
07914	Boron	7440-42-8	0.949	U	0.949	5.33		1
01650	Calcium	7440-70-2	2,040		6.53	21.3		1
01654	Iron	7439-89-6	18,600		5.02	21.3		1
01656	Lithium	7439-93-2	21.0		0.23	2.1		1
01657	Magnesium	7439-95-4	3,420		2.71	10.7		1
06958	Manganese	7439-96-5	316		0.0831	0.533		1
10145	Phosphorus	7723-14-0	369		0.597	10.7		1
01662	Potassium	7440-09-7	3,470		19.2	53.3		1
01667	Sodium	7440-23-5	131		39.8	107		1
07968	Strontium	7440-24-6	20.4		0.0661	0.533		1
06969	Tin	7440-31-5	2.55	J	1.07	10.7		1
06970	Titanium	7440-32-6	986		0.405	1.07		1
10146	Zirconium	7440-67-7	2.48	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.64		0.0861	0.431		2
06126	Barium	7440-39-3	142		0.116	0.431		2
06127	Beryllium	7440-41-7	0.753		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0887	J	0.0418	0.105		2
06131	Chromium	7440-47-3	20.6		0.129	0.431		2
06132	Cobalt	7440-48-4	6.56		0.0215	0.108		2
06133	Copper	7440-50-8	10.6		0.0710	0.431		2
06135	Lead	7439-92-1	7.12		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.910		0.0538	0.108		2
06139	Nickel	7440-02-0	13.7		0.108	0.431		2
06141	Selenium	7782-49-2	0.139	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0504	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.243		0.0314	0.105		2
06148	Vanadium	7440-62-2	38.1		0.0237	0.108		2
06149	Zinc	7440-66-6	75.6		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.4		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.22	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8411 SDG#: DE084-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-331-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110551AA	02/24/2011 22:30	Laura M Krieger	1.08
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 15:26	Jason M Long	24.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:11	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 01:21	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 12:35	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 02:32	Gregory J Drahovsky	1

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Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

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Collected: 02/17/2011 11:44

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14420 Albemarle Point Place
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E8411 SDG#: DE084-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 15:39	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:10	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 19:09	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 13:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 02:06	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 21:48	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 19:38	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 00:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2

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Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209567
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8411 SDG#: DE084-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 17:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201B	03/04/2011 01:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201B	03/04/2011 01:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201B	02/28/2011 19:36	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 19:14	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:11	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201B	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201B	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		1
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		1
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1
06192	Ethylbenzene	100-41-4	0.1	J	0.07	4.6		1
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1
06192	Methylene Chloride	75-09-2	2.8	J	0.28	4.6		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1

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Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1
06192	m+p-Xylene	179601-23-1	0.30	J	0.20	4.6		1
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	7.2	U	7.2	22		31.17
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.7	J	19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.66	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	1,400	U	1,400	3,500		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.3		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	6.6		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.71	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.9	U	6.9	14		1
08283	Ethylene glycol	107-21-1	8.1	U	8.1	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		5.81	23.1		1
07914	Boron	7440-42-8	11.2		1.03	5.77		1
01650	Calcium	7440-70-2	2,210		7.08	23.1		1
01654	Iron	7439-89-6	17,300		5.44	23.1		1
01656	Lithium	7439-93-2	19.6		0.25	2.3		1
01657	Magnesium	7439-95-4	3,220		2.93	11.5		1
06958	Manganese	7439-96-5	292		0.0901	0.577		1
10145	Phosphorus	7723-14-0	384		0.647	11.5		1
01662	Potassium	7440-09-7	3,330		20.8	57.7		1
01667	Sodium	7440-23-5	118		43.1	115		1
07968	Strontium	7440-24-6	18.4		0.0716	0.577		1
06969	Tin	7440-31-5	2.61	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,000		0.439	1.15		1
10146	Zirconium	7440-67-7	2.46	J	0.970	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.94		0.0888	0.444		2
06126	Barium	7440-39-3	148		0.120	0.444		2
06127	Beryllium	7440-41-7	0.716		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.143		0.0453	0.113		2
06131	Chromium	7440-47-3	21.1		0.133	0.444		2
06132	Cobalt	7440-48-4	6.78		0.0222	0.111		2
06133	Copper	7440-50-8	11.7		0.0733	0.444		2
06135	Lead	7439-92-1	8.49		0.0115	0.222		2
06138	Molybdenum	7439-98-7	1.73		0.0555	0.111		2
06139	Nickel	7440-02-0	14.4		0.111	0.444		2
06141	Selenium	7782-49-2	0.166	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0421	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.238		0.0340	0.113		2
06148	Vanadium	7440-62-2	40.5		0.0244	0.111		2
06149	Zinc	7440-66-6	90.8		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.8		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8413 SDG#: DE084-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	363		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	6.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-336-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110491AA	02/18/2011 23:37	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 15:46	Jason M Long	31.17
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:14	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 01:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 13:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 03:07	Gregory J Drahovsky	1

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Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E8413 SDG#: DE084-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 16:16	Marie D John	20.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:13	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 19:52	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 18:57	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 13:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 02:31	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 22:03	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 19:56	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 08:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209568
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8413 SDG#: DE084-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 17:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201B	03/04/2011 02:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201B	03/04/2011 02:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201B	02/28/2011 21:12	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11054243201A	02/24/2011 19:27	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201B	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201B	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.14	J	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	10		0.40	8.3		0.91
06192	Methylene Chloride	75-09-2	9.4		0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.16
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	25.3	J	18.8	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.41	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	17a Formaldehyde by 8315A	50-00-0	1,400	U	1,400	3,400		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.94	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	4.3		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.58	J	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.8	U	6.8	14		1
08283	Ethylene glycol	107-21-1	8.0	U	8.0	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	Due to interfering peaks on the chromatogram, the values reported for ethylene glycol and diethylene glycol represent the lowest reporting limit attainable. The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		5.63	22.4		1
07914	Boron	7440-42-8	0.996	U	0.996	5.60		1
01650	Calcium	7440-70-2	1,950		6.86	22.4		1
01654	Iron	7439-89-6	21,800		5.27	22.4		1
01656	Lithium	7439-93-2	22.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,000		2.84	11.2		1
06958	Manganese	7439-96-5	250		0.0873	0.560		1
10145	Phosphorus	7723-14-0	473		0.627	11.2		1
01662	Potassium	7440-09-7	4,490		20.1	56.0		1
01667	Sodium	7440-23-5	179		41.7	112		1
07968	Strontium	7440-24-6	13.6		0.0694	0.560		1
06969	Tin	7440-31-5	2.90	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,100		0.425	1.12		1
10146	Zirconium	7440-67-7	1.25	J	0.940	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0887	0.443		2
06126	Barium	7440-39-3	140		0.120	0.443		2
06127	Beryllium	7440-41-7	0.667		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.102	J	0.0452	0.113		2
06131	Chromium	7440-47-3	19.8		0.133	0.443		2
06132	Cobalt	7440-48-4	6.21		0.0222	0.111		2
06133	Copper	7440-50-8	10.1		0.0731	0.443		2
06135	Lead	7439-92-1	6.70		0.0115	0.222		2
06138	Molybdenum	7439-98-7	1.58		0.0554	0.111		2
06139	Nickel	7440-02-0	12.9		0.111	0.443		2
06141	Selenium	7782-49-2	0.138	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0585	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.216		0.0339	0.113		2
06148	Vanadium	7440-62-2	37.0		0.0244	0.111		2
06149	Zinc	7440-66-6	79.9		0.621	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.1		1

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Sample Description: SL-337-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8414 SDG#: DE084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	21a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	22a pH by 9045C	n.a.	7.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	28a Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-337-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110491AA	02/19/2011 00:00	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110541AA	02/23/2011 16:06	Jason M Long	20.16
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201104923716	02/18/2011 15:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201104923716	02/18/2011 15:18	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11060SLB026	03/04/2011 01:54	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11053SLA026	02/28/2011 13:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11052SLK026	02/28/2011 03:43	Gregory J Drahovsky	1

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Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

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E8414 SDG#: DE084-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	2	11060SLB026	03/02/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11052SLK026	02/22/2011 08:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11053SLA026	02/23/2011 08:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11053A34A	02/22/2011 16:52	Marie D John	19.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201104923716	02/18/2011 15:17	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110530007A	02/24/2011 20:34	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110530006A	02/23/2011 19:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110540017A	03/05/2011 13:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110540017A	02/23/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110530006A	02/22/2011 13:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110530007A	02/22/2011 14:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110530029A	02/24/2011 02:56	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110490013A	02/18/2011 22:18	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110520024A	02/21/2011 20:13	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110530028A	02/25/2011 00:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110530029A	02/23/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	110530028A	02/23/2011 08:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110520024A	02/21/2011 13:30	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110490013A	02/18/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110525708002	02/22/2011 09:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110521026002D	03/03/2011 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110631026002A	03/07/2011 14:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2

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Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209569
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E8414 SDG#: DE084-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110521026002C	03/03/2011 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110521026002B	03/03/2011 17:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110631026002A	03/07/2011 14:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110521026002A	03/03/2011 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110525711002	02/22/2011 09:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110525708002	02/21/2011 20:20	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110521026002	02/21/2011 20:22	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	110631026002	03/06/2011 20:50	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110525711002	02/21/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11062062201B	03/04/2011 02:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11062062201B	03/04/2011 02:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11056199201B	02/28/2011 21:37	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11054243201A	02/24/2011 19:33	Carrie E Miller	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11059102201A	03/01/2011 10:13	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11062062201B	03/03/2011 13:10	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11056199201B	02/25/2011 14:55	Carrie E Miller	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11059102201A	02/28/2011 16:15	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11052182101B	02/21/2011 10:50	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11052039401B	02/21/2011 10:50	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11054243201A	02/23/2011 10:00	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-021711 Water
SSFL Area IV Collocated Soil Sampling
TB-021711

LLI Sample # WW 6209570
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 08:00

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8415 SDG#: DE084-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-021711 Water**
SSFL Area IV Collocated Soil Sampling
TB-021711

LLI Sample # WW 6209570
LLI Group # 1233760
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 08:00

Submitted: 02/18/2011 08:45
Reported: 03/21/2011 13:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8415 SDG#: DE084-14TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110542AA	02/23/2011	12:37	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110521AA	02/21/2011	21:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110521AA	02/21/2011	21:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110542AA	02/23/2011	12:37	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11055A20A	02/25/2011	12:42	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11055A20A	02/25/2011	12:42	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110491AA	Sample number(s): 6209565-6209566,6209568-6209569									
Acetone	6.7	U	6.7	8.0	ug/kg	117	114	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	102	101	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	86	85	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	111	108	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	99	96	78-120	3	30
Bromoform	0.40	U	0.40	4.0	ug/kg	100	95	70-120	5	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	82	83	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	103	97	46-153	6	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	93	95	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	87	90	75-120	3	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	85	84	75-120	1	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109	108	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	99	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	78	37-154	5	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	111	108	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	106	106	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	74	77	54-132	4	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	89	91	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	90	92	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	72	70	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	98	92	58-120	5	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	104	99	77-120	4	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	101	96	80-120	6	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	104	100	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	95	95	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	89	90	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	93	91	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66	67	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	100	100	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	107	105	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	101	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103	102	79-120	1	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95	94	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96	93	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101	102	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	98	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	85	83	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87	85	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	94	95	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	99	99	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	92	94	78-120	2	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	87	88	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	74	71	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	94	95	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	91	93	75-120	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	94	93	74-121	1	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	72	67	61-134	7	30
Methylene Chloride	0.30	J	0.24	4.0	ug/kg	98	97	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	93	95	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	99	98	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	106	105	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	94	90	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	105	77-120	4	30
Toluene	0.08	U	0.08	4.0	ug/kg	98	100	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	87	87	64-120	0	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	79	79	68-120	1	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	103	104	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	99	80-120	4	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	99	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96	96	58-133	0	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	95	71-123	6	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	92	93	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	92	92	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	76	77	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	100	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	90	92	80-120	3	30
Batch number: B110551AA	Sample number(s): 6209567									
Acetone	8.7		6.7	8.0	ug/kg	116	112	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	103	80-120	3	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	104	106	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	107	102	79-124	6	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	100	96	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	100	95	70-120	5	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	70	73	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	124	109	46-153	13	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98	104	72-120	6	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	106	75-120	6	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	103	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99	98	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100	99	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	73	74	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	108	99	43-146	9	30
Chloroform	0.12	U	0.12	4.0	ug/kg	105	102	80-120	3	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	78	77	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	104	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	103	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	80	96	22-131	18	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	109	108	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98	93	77-120	6	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	107	104	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	107	103	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	104	79-120	4	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	102	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	98	102	79-120	4	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	51	60	20-120	17	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107	103	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	107	103	71-129	3	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	115	114	73-123	1	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	107	103	80-120	4	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	109	105	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	101	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	105	102	80-120	3	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104	100	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	103	77-120	3	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	97	94	80-120	4	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98	94	77-120	5	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102	101	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	99	111	61-126	12	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	98	124*	78-120	24	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	84	103	57-120	21	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	127	114	45-155	11	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100	101	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100	107	75-120	7	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	114	101	74-121	12	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	126	114	61-134	10	30
Methylene Chloride	1.1	J	0.24	4.0	ug/kg	109	110	76-124	1	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	104	108	77-120	3	30
Styrene	0.10	U	0.10	4.0	ug/kg	100	98	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100	98	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	108	110	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99	99	77-120	0	30
Toluene	0.1	J	0.08	4.0	ug/kg	103	100	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101	106	64-120	5	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	98	104	68-120	5	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	108	104	71-125	4	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104	102	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	100	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87	94	58-133	8	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	112	112	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	103	107	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	102	106	78-120	4	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	84	84	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	99	99	80-120	0	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	100	99	80-120	1	30
Batch number: E110521AA	Sample number(s): 6209570									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	100	98	80-123	2	30
Batch number: E110541AA	Sample number(s): 6209565-6209569									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	102	70-130	3	30
Batch number: Y110542AA	Sample number(s): 6209570									
Acetone	6	U	6.	20	ug/l	117	122	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	97	96	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	99	96	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	96	94	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	89	87	80-120	2	30
Bromoform	1	U	1.	5	ug/l	74	73	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	86	85	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	114	115	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	95	93	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	92	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	90	88	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	92	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	80	80	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	113	108	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	98	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	87	85	60-129	3	30
2-Chlorotoluene	1	U	1.	5	ug/l	98	96	80-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	67	67	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	79	79	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	83	83	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	93	80-120	5	30
Dibromomethane	1	U	1.	5	ug/l	96	95	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	90	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	92	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	67	66	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	102	100	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	93	90	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	95	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	92	77-124	0	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	96	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	88	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	88	79-120	4	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	94	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	78	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	100	99	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	84	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	103	103	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	91	92	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	96	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	99	98	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	96	94	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Styrene	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	94	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	96	93	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	85	84	80-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	89	87	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	82	81	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	94	93	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	94	93	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	85	83	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	97	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	96	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	83	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	92	91	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30

Batch number: 11052SLK026 Sample number(s): 6209557-6209569

Acenaphthene	0.67	U	0.67	1.7	ug/kg	99		63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	100		60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	105		55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	115		74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	114		58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	121		44-138

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	118		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	118		65-131		
Di-n-butylphthalate	7.7	J	6.0	18	ug/kg	120		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	111		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	118		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	119		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	9.5	J	6.0	18	ug/kg	122		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	115		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	118		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	96		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	113		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	124		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	105		56-121		
Batch number: 11053SLA026	Sample number(s): 6209557-6209569									
Aniline	170	U	170.	500	ug/kg	64		34-94		
Benzidine	1,200	U	1,200.	3,300	ug/kg	48		15-121		
Benzoic acid	170	U	170.	500	ug/kg	115*		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	102		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	90		79-112		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	108		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	21		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	100		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	109		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	107		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	112		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	110		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	103		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	98		70-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	91		68-105		
Isophorone	17	U	17.	170	ug/kg	103		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	99		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	106		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	105		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	102		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	98		51-117		
Phenol	17	U	17.	170	ug/kg	94		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	100		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		
Batch number: 11060SLB026	Sample number(s): 6209565-6209569									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11053A34A	Sample number(s): 6209565-6209569									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	67	67-119	2	30
Batch number: 11055A20A	Sample number(s): 6209570									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	86	79	75-135	9	30
Batch number: 110530007A	Sample number(s): 6209565-6209569									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	119	119	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	119	118	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	116		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	112		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	120		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 110530006A	Sample number(s): 6209565-6209569									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	97		80-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110540018A	Sample number(s): 6209564									
2,4-D	1.2	U	1.2	3.6	ug/kg	87		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	61		24-89		
2,4-DB	0.75	J	0.62	1.7	ug/kg	85		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	82		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	99		60-141		
MCPA	76	U	76.	250	ug/kg	81		34-113		
MCPP (Mecoprop)	210 J		75.	250	ug/kg	80		29-154		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	86		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		48-138		
Batch number: 110570005A	Sample number(s): 6209557-6209563									
2,4-D	1.2	U	1.2	3.6	ug/kg	84		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	53		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	84		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	87		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	139		62-170		
MCPA	76	U	76.	250	ug/kg	77		60-130		
MCPP (Mecoprop)	350		75.	250	ug/kg	69		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 110540019A	Sample number(s): 6209561									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	99		85-115		
Batch number: 110530014A	Sample number(s): 6209557-6209564									
Aldrin	0.066	U	0.066	0.17	ug/kg	109		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	82		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	97		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	137		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	105		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	88		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	95		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	73		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	115		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	118		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	95		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	56		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	112		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	88		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	121		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	99		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 110540017A	Sample number(s): 6209557-6209569									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	81	71	36-106	14	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110530029A	Sample number(s): 6209565-6209569									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	91		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110490013A	Sample number(s): 6209565-6209569									
Ethanol	100	U	100.	500	ug/kg	92		75-112		
Isopropanol	100	U	100.	500	ug/kg	97		75-125		
Methanol	100	U	100.	500	ug/kg	91		75-134		
Batch number: 110520024A	Sample number(s): 6209565-6209569									
Diethylene glycol	6.0	U	6.0	13	mg/kg	95		75-125		
Ethylene glycol	9.0	U	9.0	13	mg/kg	91		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	101		75-125		
Batch number: 110530028A	Sample number(s): 6209565-6209569									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	81		75-125		
Batch number: 110521026002A	Sample number(s): 6209557-6209569									
Antimony	0.141	J	0.0600	0.200	mg/kg	102		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		80-120		
Beryllium	0.0417	J	0.0160	0.100	mg/kg	106		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	114		80-120		
Cobalt	0.0570	J	0.0200	0.100	mg/kg	103		82-118		
Copper	0.135	J	0.0660	0.400	mg/kg	109		80-120		
Lead	0.0459	J	0.0104	0.200	mg/kg	109		80-120		
Nickel	0.138	J	0.100	0.400	mg/kg	113		80-120		
Silver	0.0256	J	0.0120	0.100	mg/kg	115		66-134		
Vanadium	0.0749	J	0.0220	0.100	mg/kg	104		90-110		
Zinc	0.568	J	0.560	3.00	mg/kg	108		78-122		
Batch number: 110521026002B	Sample number(s): 6209557-6209569									
Selenium	0.0571	J	0.0400	0.400	mg/kg	99		79-122		
Batch number: 110521026002C	Sample number(s): 6209557-6209569									
Molybdenum	0.0824	J	0.0500	0.100	mg/kg	114		78-122		
Batch number: 110521026002D	Sample number(s): 6209557-6209569									
Barium	0.215	J	0.108	0.400	mg/kg	110		79-121		
Batch number: 110525708002	Sample number(s): 6209557-6209569									
Aluminum	5.03	U	5.03	20.0	mg/kg	87		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	91		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	6.13	U	6.13	20.0	mg/kg	93		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	103		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	93		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	99		81-119		
Phosphorus	1.25	J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3	U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		79-121		
Tin	1.43	J	1.00	10.0	mg/kg	92		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	97		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110525711002	Sample number(s): 6209557-6209569									
Mercury	0.0028	U	0.0028	0.0980	mg/kg	102		88-123		
Batch number: 110631026002A	Sample number(s): 6209557-6209569									
Cadmium	0.0400	U	0.0400	0.100	mg/kg	113		82-118		
Thallium	0.0300	U	0.0300	0.100	mg/kg	112		81-119		
Batch number: 11054243201A	Sample number(s): 6209557-6209569									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11056199201A	Sample number(s): 6209557-6209566									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11056199201B	Sample number(s): 6209567-6209569									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11059102201A	Sample number(s): 6209565-6209569									
21a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	107		80-120		
Batch number: 11062062201A	Sample number(s): 6209557-6209566									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	109		90-110		
Batch number: 11062062201B	Sample number(s): 6209567-6209569									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	109		90-110		
Batch number: 11052039401A	Sample number(s): 6209557-6209565									
22a pH by 9045C						100		95-105		
Batch number: 11052039401B	Sample number(s): 6209566-6209569									
22a pH by 9045C						100		95-105		
Batch number: 11052182101A	Sample number(s): 6209557-6209565									
32a OR Potential						99		98-102		
Batch number: 11052182101B	Sample number(s): 6209566-6209569									
32a OR Potential						99		98-102		
Batch number: 11060162401A	Sample number(s): 6209557-6209564									
28a Moisture Content by 160.3						99		80-120		
Batch number: 11061162401B	Sample number(s): 6209565-6209569									
28a Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11052SLK026	Sample number(s): 6209557-6209569 UNSPK: 6209557								
Acenaphthene	94	90	63-105	5	30				
Acenaphthylene	103	99	67-114	4	30				
Anthracene	106	103	60-122	2	30				
Benzo(a)anthracene	117	113	59-128	4	30				
Benzo(a)pyrene	108	106	45-138	2	30				
Benzo(b)fluoranthene	103	101	43-155	2	30				
Benzo(g,h,i)perylene	86	84	33-141	3	30				
Benzo(k)fluoranthene	102	99	42-144	3	30				
Butylbenzylphthalate	122	105	57-173	15	30				
Di-n-butylphthalate	123	117	65-148	5	30				
Chrysene	109	104	48-134	4	30				
Dibenz(a,h)anthracene	83	77	22-133	8	30				
Diethylphthalate	118	111	70-136	6	30				
Dimethylphthalate	108	103	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	102	101	39-167	1	30				
Fluoranthene	117	112	26-166	4	30				
Fluorene	97	95	66-122	3	30				
Indeno(1,2,3-cd)pyrene	85	80	21-143	5	30				
1-Methylnaphthalene	96	92	72-123	4	30				
2-Methylnaphthalene	85	82	64-103	4	30				
Naphthalene	93	90	61-102	4	30				
N-Nitrosodimethylamine	111	107	48-113	4	30				
Di-n-octylphthalate	137	135	40-192	2	30				
Phenanthrene	97	95	12-165	2	30				
Pyrene	98	94	15-153	4	30				
Batch number: 11053SLA026	Sample number(s): 6209557-6209569 UNSPK: 6209557								
Aniline	68	70	35-95	1	30				
Benzidine	14*	15*	35-141	3	30				
Benzoic acid	94	89	10-173	6	30				
Benzyl alcohol	102	104	67-115	0	30				
4-Bromophenyl-phenylether	101	101	67-129	1	30				
Di-n-butylphthalate	100	99	67-123	1	30				
Carbazole	102	106	64-120	2	30				
4-Chloro-3-methylphenol	106	105	76-110	3	30				
4-Chloroaniline	63	58	23-95	9	30				
bis(2-Chloroethoxy)methane	96	97	75-104	0	30				
bis(2-Chloroethyl)ether	94	84	60-116	13	30				
bis(2-Chloroisopropyl)ether	1*	93	55-142	195*	30				
2-Chloronaphthalene	79	96	50-141	19	30				
2-Chlorophenol	97	97	73-121	2	30				
4-Chlorophenyl-phenylether	107	100	80-109	8	30				
Dibenzofuran	105	99	71-112	7	30				
1,2-Dichlorobenzene	91	79	66-108	15	30				
1,3-Dichlorobenzene	81	87	63-109	7	30				
1,4-Dichlorobenzene	91	89	70-100	3	30				
3,3'-Dichlorobenzidine	73	77	16-119	4	30				
2,4-Dichlorophenol	106	99	78-117	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dimethylphenol	104	102	78-110	4	30				
3,5-Dimethylphenol	109	109	70-130	1	30				
4,6-Dinitro-2-methylphenol	82	81	24-116	2	30				
2,4-Dinitrophenol	67	65	20-143	5	30				
2,4-Dinitrotoluene	108	95	73-113	15	30				
2,6-Dinitrotoluene	109	101	69-123	9	30				
1,2-Diphenylhydrazine	103	104	71-129	0	30				
bis(2-Ethylhexyl)phthalate	110	108	63-122	3	30				
Hexachlorobenzene	101	107	77-114	4	30				
Hexachlorobutadiene	98	95	62-120	4	30				
Hexachlorocyclopentadiene	91	82	10-153	12	30				
Hexachloroethane	93	77	57-109	20	30				
Isophorone	99	99	73-102	2	30				
2-Methylphenol	98	84	75-111	16	30				
4-Methylphenol	95	93	71-111	3	30				
2-Nitroaniline	115	102	67-125	13	30				
3-Nitroaniline	107	100	59-122	9	30				
4-Nitroaniline	87	83	52-112	6	30				
Nitrobenzene	102	100	72-106	3	30				
2-Nitrophenol	105	99	74-115	7	30				
4-Nitrophenol	100	96	54-113	5	30				
N-Nitroso-di-n-propylamine	94	91	60-116	4	30				
N-Nitrosodiphenylamine	102	103	86-145	1	30				
Pentachlorophenol	101	107	28-127	4	30				
Phenol	93	93	58-126	1	30				
1,2,4-Trichlorobenzene	99	99	72-115	1	30				
2,4,5-Trichlorophenol	111*	104	78-109	8	30				
2,4,6-Trichlorophenol	115	105	77-115	10	30				
Batch number: 11060SLB026	Sample number(s): 6209565-6209569 UNSPK: P206985								
N-Nitrosodimethylamine	82	83	70-130	1	30				
Batch number: 110530007A	Sample number(s): 6209565-6209569 UNSPK: P206985								
4-Amino-2,6-Dinitrotoluene	98	96	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	96	95	80-137	1	50				
1,3-Dinitrobenzene	99	97	38-166	2	50				
2,4-Dinitrotoluene	95	93	80-131	1	50				
2,6-Dinitrotoluene	98	94	80-127	4	50				
HMX	81	82	63-128	1	50				
Nitrobenzene	97	98	80-125	1	50				
Nitroglycerin	91	89	80-120	2	50				
2-Nitrotoluene	97	95	80-122	2	50				
3-Nitrotoluene	95	92	72-119	3	50				
4-Nitrotoluene	94	91	80-125	4	50				
PETN	98	97	80-121	1	50				
RDX	79	79	75-129	0	50				
Tetryl	80	76	55-174	5	50				
1,3,5-Trinitrobenzene	93	92	82-126	1	50				
2,4,6-Trinitrotoluene	99	97	82-130	2	50				
Batch number: 110530006A	Sample number(s): 6209565-6209569 UNSPK: P208350								
17a Formaldehyde by 8315A	102	104	80-120	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 110540018A	Sample number(s): 6209564 UNSPK: P208342								
2,4-D	79	100	28-161	23	35				
Dalapon	253*	67	12-86	116*	50				
2,4-DB	72	241*	20-170	108*	50				
Dicamba	-2*	-222*	33-120	126*	50				
Dinoseb	9	10	1-44	16	35				
2,4-DP (Dichlorprop)	105	114	55-141	8	50				
MCPA	235*	89	31-184	90*	50				
MCPP (Mecoprop)	104	155	16-174	40	50				
2,4,5-T	35	27	25-132	27	35				
2,4,5-TP	7*	23	10-183	20	35				
Batch number: 110570005A	Sample number(s): 6209557-6209563 UNSPK: P208345								
2,4-D	56	63	17-180	11	35				
Dalapon	0*	39	10-125	200*	50				
2,4-DB	128	119	10-201	7	50				
Dicamba	205*	193*	10-190	6	50				
Dinoseb	19	22	10-46	16	35				
2,4-DP (Dichlorprop)	88	139	33-178	45	50				
MCPA	183	184	10-213	1	50				
MCPP (Mecoprop)	82	86	10-184	4	50				
2,4,5-T	57	40	10-156	35	35				
2,4,5-TP	93	87	24-141	7	35				
Batch number: 110540019A	Sample number(s): 6209561 UNSPK: p210672								
6a Perchlorate EPA 6850	103	109	80-120	6	20				
Batch number: 110530014A	Sample number(s): 6209557-6209564 UNSPK: 6209558								
Aldrin	112	103	16-126	8	50				
Alpha BHC	79	73	10-129	8	50				
Beta BHC	41	44	14-147	7	50				
Gamma BHC - Lindane	85	76	10-140	11	50				
p,p-DDD	96	82	16-163	15	50				
p,p-DDE	80	55	18-161	12	50				
p,p-DDT	69	23	10-176	29	50				
Delta BHC	84	75	23-140	12	50				
Dieldrin	74	65	19-154	13	50				
Endosulfan I	67	64	16-137	5	50				
Endosulfan II	94	82	28-154	14	50				
Endosulfan Sulfate	94	82	21-160	14	50				
Endrin	82	70	11-149	16	50				
Endrin Aldehyde	73	66	10-148	10	35				
Endrin Ketone	73	65	22-165	9	50				
Heptachlor	88	79	13-126	11	50				
Heptachlor Epoxide	106	97	13-157	9	50				
Methoxychlor	49	46	32-147	5	50				
Batch number: 110540017A	Sample number(s): 6209557-6209569 UNSPK: 6209557								
PCB-1016	61	84	29-146	32	50				
PCB-1260	74	98	39-149	26	50				
Batch number: 110530029A	Sample number(s): 6209565-6209569 UNSPK: P208350								
EFH (C12-C14)	0*	0*	49-123	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	2133 (2)	5256 (2)	49-123	14	20				
EFH (C30 - C40)	16238 (2)	25509 (2)	49-123	16	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 110490013A	Sample number(s): 6209565-6209569 UNSPK: P208351								
Ethanol	84	86	24-143	2	20				
Isopropanol	87	88	75-125	2	20				
Methanol	92	97	45-136	5	20				
Batch number: 110520024A	Sample number(s): 6209565-6209569 UNSPK: P208350								
Diethylene glycol	52*	73	59-109	33*	20				
Ethylene glycol	65	80	63-107	21*	20				
Propylene glycol	77	89	63-107	15	20				
Batch number: 110530028A	Sample number(s): 6209565-6209569 UNSPK: P206985								
m-Terphenyl	80	80	75-125	1	20				
o-Terphenyl	96	95	75-125	2	20				
p-Terphenyl	75	73*	75-125	2	20				
Batch number: 110521026002A	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Antimony	48*	73*	75-125	34*	20	0.186 J	0.0928 J	67* (1)	20
Arsenic	126*	205*	75-125	19	20	4.92	4.16	17	20
Beryllium	117	133*	75-125	8	20	0.631	0.571	10	20
Chromium	143*	189*	75-125	13	20	18.6	16.7	11	20
Cobalt	119	136*	75-125	13	20	5.83	5.12	13	20
Copper	131*	155*	75-125	11	20	9.50	8.58	10	20
Lead	201*	229*	75-125	6	20	9.05	7.97	13	20
Nickel	139*	180*	75-125	15	20	12.2	11.0	10	20
Silver	137*	156*	75-125	14	20	0.0618 J	0.0394 J	44* (1)	20
Vanadium	155*	230*	75-125	14	20	35.1	30.7	13	20
Zinc	182 (2)	285 (2)	75-125	12	20	59.3	52.6	12	20
Batch number: 110521026002B	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Selenium	93	92	75-125	1	20	0.134 J	0.109 J	21* (1)	20
Batch number: 110521026002C	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Molybdenum	137*	163*	75-125	18	20	0.648	0.574	12	20
Batch number: 110521026002D	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Barium	237 (2)	420 (2)	75-125	13	20	110	99.4	10	20
Batch number: 110525708002	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Aluminum	2302 (2)	2326 (2)	75-125	1	20	13,400	14,000	5	20
Boron	101	101	84-115	1	20	0.890 U	0.873 U	0 (1)	20
Calcium	203 (2)	233 (2)	75-125	4	20	2,050	2,320	12	20
Iron	1348 (2)	2145 (2)	75-125	4	20	17,300	18,100	4	20
Lithium	105	104	82-114	0	20	19.6	20.7	6	20
Magnesium	274 (2)	278 (2)	75-125	0	20	3,370	3,550	5	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Manganese	110 (2)	139 (2)	75-125	4	20	285	289	1	20
Phosphorus	112	125	75-125	3	20	330	357	8	20
Potassium	141*	150*	75-125	2	20	2,820	2,950	5	20
Sodium	102	101	75-125	0	20	72.6 J	72.8 J	0 (1)	20
Strontium	102	102	75-115	1	20	18.3	18.9	4	20
Tin	91	90	80-110	1	20	2.38 J	2.40 J	1 (1)	20
Titanium	312 (2)	339 (2)	75-125	2	20	992	996	0	20
Zirconium	95	94	75-125	0	20	3.43 J	3.31 J	4 (1)	20
Batch number: 110525711002	Sample number(s): 6209557-6209569 UNSPK: 6209557 BKG: 6209557								
Mercury	101	95	65-135	6	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 110631026002A	Sample number(s): 6209557-6209569 UNSPK: P214502 BKG: P214502								
Cadmium	156*	139*	75-125	11	20	0.0576 J	0.0704 J	20 (1)	20
Thallium	179*	149*	75-125	13	20	0.237	0.239	1 (1)	20
Batch number: 11054243201A	Sample number(s): 6209557-6209569 UNSPK: 6209565 BKG: 6209565								
3a Cr VI by EPA 7199	88		75-125			0.20 J	0.37 J	59* (1)	20
Batch number: 11056199201A	Sample number(s): 6209557-6209566 UNSPK: 6209557 BKG: 6209557								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11056199201B	Sample number(s): 6209567-6209569 UNSPK: 6209567 BKG: 6209567								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11059102201A	Sample number(s): 6209565-6209569 UNSPK: 6209565 BKG: 6209565								
21a Cyanide by 9012B	106		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11062062201A	Sample number(s): 6209557-6209566 UNSPK: 6209557 BKG: 6209557								
11a Anions by 300.0 - Fluoride	50*		80-120			1.3	0.89 J	40* (1)	20
11a Anions by 300.0 - Nitrate	108		80-120			1.4 J	0.88 J	44* (1)	20
Batch number: 11062062201B	Sample number(s): 6209567-6209569 UNSPK: 6209567 BKG: 6209567								
11a Anions by 300.0 - Fluoride	80		80-120			1.2	1.3	10 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			4.1	3.8	7 (1)	20
Batch number: 11052039401A	Sample number(s): 6209557-6209565 BKG: 6209557								
22a pH by 9045C						6.48	6.52	1	1
Batch number: 11052039401B	Sample number(s): 6209566-6209569 BKG: P210672								
22a pH by 9045C						6.93	6.94	0	1
Batch number: 11052182101A	Sample number(s): 6209557-6209565 BKG: 6209557								
32a OR Potential						318	322	1	6
Batch number: 11052182101B	Sample number(s): 6209566-6209569 BKG: P210672								
32a OR Potential						503	504	0	6
Batch number: 11060162401A	Sample number(s): 6209557-6209564 BKG: P208348								
28a Moisture Content by 160.3						9.7	9.6	0	20
Batch number: 11061162401B	Sample number(s): 6209565-6209569 BKG: P206985								
28a Moisture Content by 160.3						8.3	9.2	10	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110491AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6209565	117	117	96	90
6209566	113	109	96	90
6209568	114	105	97	82
6209569	116	110	95	87
Blank	113	111*	95	91
LCS	107	106	104	106
LCSD	104	103	105	104
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110551AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6209567	102	106	97	97
Blank	99	102	98	97
LCS	103	106	101	100
LCSD	102	104	101	98
Limits:	71-114	70-109	70-123	70-111

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110521AA

	Toluene-d8
6209570	95
Blank	95
LCS	95
LCSD	95
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110541AA

	Toluene-d8
6209565	97
6209566	98
6209567	98
6209568	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

6209569	98
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110542AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6209570	98	99	101	99
Blank	100	98	101	99
LCS	100	99	101	99
LCSD	101	103	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11052SLK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6209557	116	84	96
6209558	113	82	95
6209559	127	84	95
6209560	128	85	95
6209561	132*	86	94
6209562	122	83	89
6209563	118	83	90
6209564	122	89	95
6209565	104	81	94
6209566	106	83	90
6209567	106	87	95
6209568	103	84	93
6209569	105	87	94
Blank	123	94	108
LCS	129	85	100
MS	135*	86	94
MSD	129	83	90
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11053SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6209557	93	96	95	98	97	98
6209558	89	90	103	89	90	96
6209559	94	90	99	94	91	97
6209560	92	90	79	91	95	75
6209561	97	99	78	90	94	117
6209562	102	102	86	92	80	103
6209563	78	94	69	99	81	103
6209564	98	102	75	95	94	119
6209565	86	89	85	88	82	95
6209566	89	89	94	88	97	94
6209567	89	94	107	87	104	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

6209568	71	91	100	76	80	83
6209569	72	76	115	90	90	122
Blank	91	93	108	95	91	93
LCS	96	96	102	98	92	94
MS	87	96	113	95	100	95
MSD	95	93	102	93	92	92
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11060SLB026

	N-Nitrosodimethylamine-d6
6209565	100
6209566	82
6209567	91
6209568	92
6209569	96
Blank	92
LCS	93
MS	99
MSD	112
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11053A34A

	Trifluorotoluene-F
6209565	77
6209566	78
6209567	76
6209568	74
6209569	74
Blank	84
LCS	85
LCSD	86
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11055A20A

	Trifluorotoluene-F
6209570	82
Blank	82
LCS	101
LCSD	101
Limits:	63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 110530006A

	Butyraldehyde
6209565	113

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

6209566	107
6209567	113
6209568	104
6209569	105
Blank	118
LCS	121
MS	117
MSD	112
Limits:	64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110530007A

	2-Nitro-m-xylene
6209565	123
6209566	118
6209567	105
6209568	112
6209569	119
Blank	116
LCS	130
LCSD	125
MS	104
MSD	108
Limits:	80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 110530014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6209557	68	101
6209558	80	100
6209559	83	75
6209560	68	77
6209561	73	100
6209562	74	70
6209563	88	78
6209564	82	68
Blank	71	102
LCS	77	104
MS	73	77
MSD	78	73
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110540017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6209557	85	107
6209558	84	102
6209559	104	112
6209560	104	125*
6209561	103	118
6209562	95	142*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

6209563	101	113
6209564	105	114
6209565	107	111
6209566	99	110
6209567	102	107
6209568	90	96
6209569	104	115
Blank	74	118
LCS	88	104
LCSD	99	100
MS	68	85
MSD	88	111
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110540018A

	2,4-Dichlorophenylacetic acid
6209564	141
Blank	96
LCS	92
MS	142
MSD	69
Limits:	36-156

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110570005A

	2,4-Dichlorophenylacetic acid
6209557	85
6209558	68
6209559	155
6209560	93
6209561	102
6209562	131
6209563	62
Blank	80
LCS	82
MS	105
MSD	96
Limits:	36-156

Analysis Name: 25a Alcohols by 8015B
Batch number: 110490013A

	Acetone
6209565	84
6209566	87
6209567	84
6209568	79
6209569	75
Blank	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233760
Reported: 03/21/11 at 01:02 PM

Surrogate Quality Control

LCS	94
MS	82
MSD	83
Limits:	42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 110520024A

	Tetramethylene glycol
6209565	62
6209566	79
6209567	81
6209568	75
6209569	66
Blank	110
LCS	107
MS	101
MSD	92
Limits:	29-137

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110530028A

	n-Triacontane-d62
6209565	75
6209566	76
6209567	73
6209568	78
6209569	77
Blank	80
LCS	78
MS	85
MSD	81
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110530029A

	Chlorobenzene	Orthoterphenyl
6209565	74	82
6209566	74	85
6209567	70	85
6209568	55	78
6209569	60	76
Blank	78	89
LCS	80	91
MS	66	104
MSD	56	89
Limits:	37-125	47-145

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acct#13013 cp# 1233760 sample# 6209557-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetraphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-021-SA5A-SS-0.0-0.5	2.17.2011	0940	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-021-SA5A-SS-0.0-0.5	2.17.2011	0940	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-022-SA5A-SS-0.0-0.5	2.17.2011	0925	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-022-SA5A-SS-0.0-0.5	2.17.2011	0925	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-035-SA5A-SS-0.0-0.5	2.17.2011	1040	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-035-SA5A-SS-0.0-0.5	2.17.2011	1040	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-036-SA5A-SS-0.0-0.5	2.17.2011	1358	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-036-SA5A-SS-0.0-0.5	2.17.2011	1358	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-037-SA5A-SS-0.0-0.5	2.17.2011	1328	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X														
SL-037-SA5A-SS-0.0-0.5	2.17.2011	1328	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-040-SA5A-SS-0.0-0.5	2.17.2011	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-040-SA5A-SS-0.0-0.5	2.17.2011	1310	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-050-SA5A-SS-0.0-0.5	2.17.2011	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-050-SA5A-SS-0.0-0.5	2.17.2011	1420	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-051-SA5A-SS-0.0-0.5	2.17.2011	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X														
SL-051-SA5A-SS-0.0-0.5	2.17.2011	1440	SOIL	NONE	1-6 inch sleeve			X	X																				
SL-321-SA5B-SB-3.0-4.0	2.17.2011	1309	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-321-SA5B-SB-3.5	2.17.2011	1305	SOIL	NONE	5-Encores											X	X	X											
SL-322-SA5B-SB-3.0-4.0	2.17.2011	1530	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-322-SA5B-SB-3.5	2.17.2011	1526	SOIL	NONE	5-Encores											X	X	X											
SL-331-SA5B-SB-3.0-4.0	2.17.2011	1144	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-331-SA5B-SB-3.5	2.17.2011	1139	SOIL	NONE	5-Encores											X	X	X											
SL-336-SA5B-SB-4.0-5.0	2.17.2011	0919	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-336-SA5B-SB-4.5	2.17.2011	0915	SOIL	NONE	5-Encores											X	X	X											
SL-337-SA5B-SB-3.0-4.0	2.17.2011	1033	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-337-SA5B-SB-3.5	2.17.2011	1028	SOIL	NONE	5-Encores											X	X	X											
TB-021711	2.17.2011	0600	WATER	HCl	4-40 mL VOA VIALS											X	X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	02/17/2011 / 17:00		2/18/11 845
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 3151, ...3162	

Laboratory:
Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/18/2011
Group Number: 1233761
SDG: DX052
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-021-SA5A-SS-0.0-0.5 Soil	6209571
SL-022-SA5A-SS-0.0-0.5 Soil	6209572
SL-035-SA5A-SS-0.0-0.5 Soil	6209573
SL-036-SA5A-SS-0.0-0.5 Soil	6209574
SL-037-SA5A-SS-0.0-0.5 Soil	6209575
SL-040-SA5A-SS-0.0-0.5 Soil	6209576
SL-050-SA5A-SS-0.0-0.5 Soil	6209577
SL-051-SA5A-SS-0.0-0.5 Soil	6209578
SL-321-SA5B-SB-3.0-4.0 Soil	6209579
SL-322-SA5B-SB-3.0-4.0 Soil	6209580
SL-331-SA5B-SB-3.0-4.0 Soil	6209581
SL-336-SA5B-SB-4.0-5.0 Soil	6209582
SL-337-SA5B-SB-3.0-4.0 Soil	6209583

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209571
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209571
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.107	JQ	0.0200	1.11	1
11031	12378-PeCDD	40321-76-4	0.899	J	0.0535	5.57	1
11031	123478-HxCDD	39227-28-6	1.36	JB	0.0746	5.57	1
11031	123678-HxCDD	57653-85-7	3.02	JB	0.0767	5.57	1
11031	123789-HxCDD	19408-74-3	3.34	JB	0.0717	5.57	1
11031	1234678-HpCDD	35822-46-9	75.2	B	0.0976	5.57	1
11031	OCDD	3268-87-9	1,560	B	0.0939	11.1	1
11031	2378-TCDF	51207-31-9	0.0872	JQ	0.0343	1.11	1
11031	12378-PeCDF	57117-41-6	0.151	JB	0.0180	5.57	1
11031	23478-PeCDF	57117-31-4	0.345	JB	0.0184	5.57	1
11031	123478-HxCDF	70648-26-9	0.324	JB	0.0460	5.57	1
11031	123678-HxCDF	57117-44-9	0.177	JB	0.0369	5.57	1
11031	123789-HxCDF	72918-21-9	0.440	JB	0.0447	5.57	1
11031	234678-HxCDF	60851-34-5	0.291	JB	0.0378	5.57	1
11031	1234678-HpCDF	67562-39-4	3.95	JB	0.0254	5.57	1
11031	1234789-HpCDF	55673-89-7	0.228	JBQ	0.0381	5.57	1
11031	OCDF	39001-02-0	12.3	B	0.0430	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209571
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5A-SS-0.0-0.5

LLI Sample # SW 6209571
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX052-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 14:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209572
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209572
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX052-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0753	J	0.0191	1.09	1
11031	12378-PeCDD	40321-76-4	0.697	J	0.0477	5.43	1
11031	123478-HxCDD	39227-28-6	1.01	JB	0.0895	5.43	1
11031	123678-HxCDD	57653-85-7	2.27	JB	0.0914	5.43	1
11031	123789-HxCDD	19408-74-3	2.46	JB	0.0838	5.43	1
11031	1234678-HpCDD	35822-46-9	55.0	B	0.0796	5.43	1
11031	OCDD	3268-87-9	1,150	B	0.0769	10.9	1
11031	2378-TCDF	51207-31-9	0.270	J	0.0406	1.09	1
11031	12378-PeCDF	57117-41-6	0.159	JBQ	0.0217	5.43	1
11031	23478-PeCDF	57117-31-4	0.487	JB	0.0227	5.43	1
11031	123478-HxCDF	70648-26-9	0.465	JB	0.0468	5.43	1
11031	123678-HxCDF	57117-44-9	0.176	JB	0.0360	5.43	1
11031	123789-HxCDF	72918-21-9	0.297	JB	0.0425	5.43	1
11031	234678-HxCDF	60851-34-5	0.273	JBQ	0.0346	5.43	1
11031	1234678-HpCDF	67562-39-4	3.38	JB	0.0260	5.43	1
11031	1234789-HpCDF	55673-89-7	0.242	JBQ	0.0391	5.43	1
11031	OCDF	39001-02-0	10.7	JB	0.0353	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209572
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5A-SS-0.0-0.5

LLI Sample # SW 6209572
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:25

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX052-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 15:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209573
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209573
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX052-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0239	JQ	0.0201	1.08	1
11031	12378-PeCDD	40321-76-4	0.224	J	0.0305	5.41	1
11031	123478-HxCDD	39227-28-6	0.246	JB	0.0601	5.41	1
11031	123678-HxCDD	57653-85-7	1.20	JB	0.0640	5.41	1
11031	123789-HxCDD	19408-74-3	1.46	JB	0.0593	5.41	1
11031	1234678-HpCDD	35822-46-9	21.6	B	0.0584	5.41	1
11031	OCDD	3268-87-9	349	B	0.0511	10.8	1
11031	2378-TCDF	51207-31-9	0.0922	JQ	0.0330	1.08	1
11031	12378-PeCDF	57117-41-6	0.126	JBQ	0.0161	5.41	1
11031	23478-PeCDF	57117-31-4	0.237	JBQ	0.0172	5.41	1
11031	123478-HxCDF	70648-26-9	0.334	JBQ	0.0438	5.41	1
11031	123678-HxCDF	57117-44-9	0.189	JB	0.0348	5.41	1
11031	123789-HxCDF	72918-21-9	0.333	JBQ	0.0424	5.41	1
11031	234678-HxCDF	60851-34-5	0.187	JB	0.0371	5.41	1
11031	1234678-HpCDF	67562-39-4	2.57	JB	0.0210	5.41	1
11031	1234789-HpCDF	55673-89-7	0.243	JB	0.0345	5.41	1
11031	OCDF	39001-02-0	7.00	JB	0.0348	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209573
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-035-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5A-SS-0.0-0.5

LLI Sample # SW 6209573
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX052-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 15:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209574
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209574
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX052-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.154	J	0.0224	1.10	1
11031	12378-PeCDD	40321-76-4	1.61	J	0.0831	5.49	1
11031	123478-HxCDD	39227-28-6	3.40	JB	0.0996	5.49	1
11031	123678-HxCDD	57653-85-7	9.81	B	0.102	5.49	1
11031	123789-HxCDD	19408-74-3	6.71	B	0.0899	5.49	1
11031	1234678-HpCDD	35822-46-9	286	B	0.174	5.49	1
11031	OCDD	3268-87-9	6,230	EB	0.141	11.0	1
11031	2378-TCDF	51207-31-9	0.324	J	0.109	1.10	1
11031	12378-PeCDF	57117-41-6	0.677	JBQ	0.0482	5.49	1
11031	23478-PeCDF	57117-31-4	1.19	JB	0.0486	5.49	1
11031	123478-HxCDF	70648-26-9	2.09	JB	0.0852	5.49	1
11031	123678-HxCDF	57117-44-9	0.786	JB	0.0728	5.49	1
11031	123789-HxCDF	72918-21-9	0.476	JB	0.0692	5.49	1
11031	234678-HxCDF	60851-34-5	0.913	JB	0.0587	5.49	1
11031	1234678-HpCDF	67562-39-4	17.5	B	0.0593	5.49	1
11031	1234789-HpCDF	55673-89-7	0.954	JB	0.0676	5.49	1
11031	OCDF	39001-02-0	60.5	B	0.0427	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209574
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-036-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5A-SS-0.0-0.5

LLI Sample # SW 6209574
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:58

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX052-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 16:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209575
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209575
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX052-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0856	J	0.0213	1.08	1
11031	12378-PeCDD	40321-76-4	0.858	J	0.0560	5.38	1
11031	123478-HxCDD	39227-28-6	1.56	JB	0.0865	5.38	1
11031	123678-HxCDD	57653-85-7	4.00	JB	0.0904	5.38	1
11031	123789-HxCDD	19408-74-3	3.46	JB	0.0891	5.38	1
11031	1234678-HpCDD	35822-46-9	125	B	0.136	5.38	1
11031	OCDD	3268-87-9	2,250	B	0.151	10.8	1
11031	2378-TCDF	51207-31-9	0.464	J	0.119	1.08	1
11031	12378-PeCDF	57117-41-6	0.434	JB	0.0475	5.38	1
11031	23478-PeCDF	57117-31-4	1.28	JB	0.0471	5.38	1
11031	123478-HxCDF	70648-26-9	1.58	JB	0.0678	5.38	1
11031	123678-HxCDF	57117-44-9	0.655	JB	0.0554	5.38	1
11031	123789-HxCDF	72918-21-9	0.420	JB	0.0604	5.38	1
11031	234678-HxCDF	60851-34-5	0.983	JB	0.0559	5.38	1
11031	1234678-HpCDF	67562-39-4	10.5	B	0.0398	5.38	1
11031	1234789-HpCDF	55673-89-7	0.701	JB	0.0532	5.38	1
11031	OCDF	39001-02-0	29.4	B	0.0471	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209575
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5A-SS-0.0-0.5

LLI Sample # SW 6209575
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:28

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX052-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 17:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209576
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX052-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209576
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX052-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0249	U	0.0249	1.10	1
11031	12378-PeCDD	40321-76-4	0.241	J	0.0342	5.48	1
11031	123478-HxCDD	39227-28-6	0.368	JBQ	0.0775	5.48	1
11031	123678-HxCDD	57653-85-7	0.985	JB	0.0811	5.48	1
11031	123789-HxCDD	19408-74-3	1.14	JB	0.0738	5.48	1
11031	1234678-HpCDD	35822-46-9	24.6	B	0.0689	5.48	1
11031	OCDD	3268-87-9	503	B	0.0664	11.0	1
11031	2378-TCDF	51207-31-9	0.0518	JQ	0.0398	1.10	1
11031	12378-PeCDF	57117-41-6	0.110	JB	0.0220	5.48	1
11031	23478-PeCDF	57117-31-4	0.198	JB	0.0212	5.48	1
11031	123478-HxCDF	70648-26-9	0.335	JB	0.0522	5.48	1
11031	123678-HxCDF	57117-44-9	0.145	JB	0.0400	5.48	1
11031	123789-HxCDF	72918-21-9	0.317	JB	0.0467	5.48	1
11031	234678-HxCDF	60851-34-5	0.198	JBQ	0.0382	5.48	1
11031	1234678-HpCDF	67562-39-4	2.25	JB	0.0286	5.48	1
11031	1234789-HpCDF	55673-89-7	0.195	JB	0.0415	5.48	1
11031	OCDF	39001-02-0	6.49	JB	0.0346	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209576
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX052-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5A-SS-0.0-0.5

LLI Sample # SW 6209576
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:10

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX052-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 18:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209577
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209577
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX052-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0762	JQ	0.0211	1.10	1
11031	12378-PeCDD	40321-76-4	0.437	J	0.0412	5.51	1
11031	123478-HxCDD	39227-28-6	0.378	JB	0.0731	5.51	1
11031	123678-HxCDD	57653-85-7	1.09	JBQ	0.0713	5.51	1
11031	123789-HxCDD	19408-74-3	1.15	JB	0.0646	5.51	1
11031	1234678-HpCDD	35822-46-9	21.5	B	0.0615	5.51	1
11031	OCDD	3268-87-9	440	B	0.0634	11.0	1
11031	2378-TCDF	51207-31-9	0.0910	JQ	0.0283	1.10	1
11031	12378-PeCDF	57117-41-6	0.0781	JBQ	0.0178	5.51	1
11031	23478-PeCDF	57117-31-4	0.247	JB	0.0178	5.51	1
11031	123478-HxCDF	70648-26-9	0.460	JB	0.0520	5.51	1
11031	123678-HxCDF	57117-44-9	0.121	JBQ	0.0370	5.51	1
11031	123789-HxCDF	72918-21-9	0.301	JB	0.0332	5.51	1
11031	234678-HxCDF	60851-34-5	0.154	JB	0.0275	5.51	1
11031	1234678-HpCDF	67562-39-4	1.80	JB	0.0308	5.51	1
11031	1234789-HpCDF	55673-89-7	0.120	JB	0.0354	5.51	1
11031	OCDF	39001-02-0	5.24	JB	0.0347	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209577
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5A-SS-0.0-0.5

LLI Sample # SW 6209577
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:20

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX052-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 19:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209578
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX052-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209578
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX052-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.168	J	0.0217	1.11	1
11031	12378-PeCDD	40321-76-4	1.79	J	0.0697	5.54	1
11031	123478-HxCDD	39227-28-6	2.57	JB	0.0792	5.54	1
11031	123678-HxCDD	57653-85-7	6.23	B	0.0808	5.54	1
11031	123789-HxCDD	19408-74-3	6.66	B	0.0749	5.54	1
11031	1234678-HpCDD	35822-46-9	170	B	0.127	5.54	1
11031	OCDD	3268-87-9	3,520	B	0.123	11.1	1
11031	2378-TCDF	51207-31-9	0.370	J	0.0559	1.11	1
11031	12378-PeCDF	57117-41-6	0.280	JBQ	0.0297	5.54	1
11031	23478-PeCDF	57117-31-4	0.759	JB	0.0296	5.54	1
11031	123478-HxCDF	70648-26-9	1.15	JB	0.0722	5.54	1
11031	123678-HxCDF	57117-44-9	0.465	JB	0.0526	5.54	1
11031	123789-HxCDF	72918-21-9	0.519	JB	0.0617	5.54	1
11031	234678-HxCDF	60851-34-5	0.574	JB	0.0502	5.54	1
11031	1234678-HpCDF	67562-39-4	9.91	B	0.0362	5.54	1
11031	1234789-HpCDF	55673-89-7	0.515	JB	0.0549	5.54	1
11031	OCDF	39001-02-0	30.4	B	0.0440	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209578
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX052-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5A-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5A-SS-0.0-0.5

LLI Sample # SW 6209578
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 14:40

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX052-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/03/2011 20:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11060162401A	03/01/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-321-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209579
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX052-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-321-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209579
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX052-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0232	JQ	0.0194	1.14	1
11031	12378-PeCDD	40321-76-4	0.0867	JQ	0.0229	5.69	1
11031	123478-HxCDD	39227-28-6	0.0297	U	0.0297	5.69	1
11031	123678-HxCDD	57653-85-7	1.84	JB	0.0298	5.69	1
11031	123789-HxCDD	19408-74-3	1.94	JB	0.0293	5.69	1
11031	1234678-HpCDD	35822-46-9	0.399	JB	0.0265	5.69	1
11031	OCDD	3268-87-9	1.96	JB	0.0272	11.4	1
11031	2378-TCDF	51207-31-9	0.0154	U	0.0154	1.14	1
11031	12378-PeCDF	57117-41-6	0.110	JB	0.00968	5.69	1
11031	23478-PeCDF	57117-31-4	0.113	JBQ	0.0107	5.69	1
11031	123478-HxCDF	70648-26-9	0.0698	JB	0.0228	5.69	1
11031	123678-HxCDF	57117-44-9	1.26	JB	0.0150	5.69	1
11031	123789-HxCDF	72918-21-9	0.130	JBQ	0.0178	5.69	1
11031	234678-HxCDF	60851-34-5	0.0410	JB	0.0140	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0701	JB	0.0114	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0491	JBQ	0.0178	5.69	1
11031	OCDF	39001-02-0	0.157	JBQ	0.0237	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-321-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209579
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX052-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-321-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-321-SA5B-SB-3.0-4.0

LLI Sample # SW 6209579
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 13:09

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX052-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 00:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209580
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5210 SDG#: DX052-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-322-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209580
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5210 SDG#: DX052-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0216	U	0.0216	1.07	1
11031	12378-PeCDD	40321-76-4	0.0213	JQ	0.0197	5.34	1
11031	123478-HxCDD	39227-28-6	0.0158	U	0.0158	5.34	1
11031	123678-HxCDD	57653-85-7	0.0214	JB	0.0159	5.34	1
11031	123789-HxCDD	19408-74-3	0.0168	JBQ	0.0147	5.34	1
11031	1234678-HpCDD	35822-46-9	0.234	JB	0.0190	5.34	1
11031	OCDD	3268-87-9	0.727	JB	0.0231	10.7	1
11031	2378-TCDF	51207-31-9	0.0140	U	0.0140	1.07	1
11031	12378-PeCDF	57117-41-6	0.0273	JB	0.00929	5.34	1
11031	23478-PeCDF	57117-31-4	0.0470	JBQ	0.00962	5.34	1
11031	123478-HxCDF	70648-26-9	0.0149	U	0.0149	5.34	1
11031	123678-HxCDF	57117-44-9	0.0108	U	0.0108	5.34	1
11031	123789-HxCDF	72918-21-9	0.0168	JBQ	0.0114	5.34	1
11031	234678-HxCDF	60851-34-5	0.00923	JBQ	0.00919	5.34	1
11031	1234678-HpCDF	67562-39-4	0.0393	JB	0.00929	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0191	JBQ	0.0121	5.34	1
11031	OCDF	39001-02-0	0.0866	JBQ	0.0201	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209580
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5210 SDG#: DX052-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-322-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-322-SA5B-SB-3.0-4.0

LLI Sample # SW 6209580
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 15:30

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5210 SDG#: DX052-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 01:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209581
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5211 SDG#: DX052-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-331-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209581
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5211 SDG#: DX052-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169	U	0.0169	1.08	1
11031	12378-PeCDD	40321-76-4	0.0189	JQ	0.0154	5.38	1
11031	123478-HxCDD	39227-28-6	0.0188	U	0.0188	5.38	1
11031	123678-HxCDD	57653-85-7	0.112	JB	0.0184	5.38	1
11031	123789-HxCDD	19408-74-3	0.204	JB	0.0170	5.38	1
11031	1234678-HpCDD	35822-46-9	0.179	JBQ	0.0189	5.38	1
11031	OCDD	3268-87-9	1.36	JB	0.0315	10.8	1
11031	2378-TCDF	51207-31-9	0.0133	U	0.0133	1.08	1
11031	12378-PeCDF	57117-41-6	0.0280	JBQ	0.00872	5.38	1
11031	23478-PeCDF	57117-31-4	0.0530	JBQ	0.00904	5.38	1
11031	123478-HxCDF	70648-26-9	0.0182	JBQ	0.0180	5.38	1
11031	123678-HxCDF	57117-44-9	0.0274	JBQ	0.0122	5.38	1
11031	123789-HxCDF	72918-21-9	0.0985	JBQ	0.0110	5.38	1
11031	234678-HxCDF	60851-34-5	0.0127	JBQ	0.00936	5.38	1
11031	1234678-HpCDF	67562-39-4	0.0382	JB	0.0107	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0245	JBQ	0.0116	5.38	1
11031	OCDF	39001-02-0	0.0746	JBQ	0.0167	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209581
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5211 SDG#: DX052-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-331-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-331-SA5B-SB-3.0-4.0

LLI Sample # SW 6209581
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 11:44

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5211 SDG#: DX052-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 02:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209582
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5212 SDG#: DX052-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-336-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209582
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5212 SDG#: DX052-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	U	0.0244	1.15	1
11031	12378-PeCDD	40321-76-4	0.0223	U	0.0223	5.77	1
11031	123478-HxCDD	39227-28-6	0.0291	U	0.0291	5.77	1
11031	123678-HxCDD	57653-85-7	0.192	JBQ	0.0283	5.77	1
11031	123789-HxCDD	19408-74-3	0.254	JBQ	0.0256	5.77	1
11031	1234678-HpCDD	35822-46-9	1.47	JB	0.0546	5.77	1
11031	OCDD	3268-87-9	21.1	B	0.0258	11.5	1
11031	2378-TCDF	51207-31-9	0.0173	U	0.0173	1.15	1
11031	12378-PeCDF	57117-41-6	0.0461	JB	0.0112	5.77	1
11031	23478-PeCDF	57117-31-4	0.0735	JBQ	0.0117	5.77	1
11031	123478-HxCDF	70648-26-9	0.0879	JB	0.0270	5.77	1
11031	123678-HxCDF	57117-44-9	0.0564	JBQ	0.0171	5.77	1
11031	123789-HxCDF	72918-21-9	0.229	JB	0.0164	5.77	1
11031	234678-HxCDF	60851-34-5	0.0336	JBQ	0.0132	5.77	1
11031	1234678-HpCDF	67562-39-4	0.127	JB	0.0163	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0661	JBQ	0.0193	5.77	1
11031	OCDF	39001-02-0	0.334	JB	0.0249	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209582
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5212 SDG#: DX052-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-336-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-336-SA5B-SB-4.0-5.0

LLI Sample # SW 6209582
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 09:19

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5212 SDG#: DX052-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 03:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209583
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5213 SDG#: DX052-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209583
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5213 SDG#: DX052-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0184	U	0.0184	1.14	1
11031	12378-PeCDD	40321-76-4	0.0372	JQ	0.0247	5.71	1
11031	123478-HxCDD	39227-28-6	0.0439	U	0.0439	5.71	1
11031	123678-HxCDD	57653-85-7	0.315	JB	0.0452	5.71	1
11031	123789-HxCDD	19408-74-3	0.434	JB	0.0412	5.71	1
11031	1234678-HpCDD	35822-46-9	6.10	B	0.0647	5.71	1
11031	OCDD	3268-87-9	75.3	B	0.0340	11.4	1
11031	2378-TCDF	51207-31-9	0.0158	U	0.0158	1.14	1
11031	12378-PeCDF	57117-41-6	0.0423	JB	0.0120	5.71	1
11031	23478-PeCDF	57117-31-4	0.112	JB	0.0122	5.71	1
11031	123478-HxCDF	70648-26-9	0.105	JBQ	0.0239	5.71	1
11031	123678-HxCDF	57117-44-9	0.0732	JBQ	0.0178	5.71	1
11031	123789-HxCDF	72918-21-9	0.275	JB	0.0167	5.71	1
11031	234678-HxCDF	60851-34-5	0.0297	JBQ	0.0134	5.71	1
11031	1234678-HpCDF	67562-39-4	0.440	JB	0.0267	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0654	JBQ	0.0305	5.71	1
11031	OCDF	39001-02-0	1.08	JB	0.0322	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209583
LLI Group # 1233761
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/17/2011 10:33

Submitted: 02/18/2011 08:45
Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5213 SDG#: DX052-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-337-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-337-SA5B-SB-3.0-4.0

LLI Sample # SW 6209583
LLI Group # 1233761
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Reported: 03/16/2011 09:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5213 SDG#: DX052-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11055001	03/04/2011 04:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11055001	02/24/2011 12:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11061162401B	03/02/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233761
Reported: 03/16/11 at 09:03 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11060162401A	Sample number(s): 6209571-6209578								
28a Moisture Content by 160.3					99		80-120		
Batch number: 11061162401B	Sample number(s): 6209579-6209583								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11055001	Sample number(s): 6209571-6209583								
2378-TCDD	0.0184 U	0.0184	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0147 U	0.0147	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0169 J	0.0135	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0223 J	0.0137	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0217 J	0.0137	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.162 J	0.0160	5.00	ng/kg	90		70-140		
OCDD	0.458 J	0.0235	10.0	ng/kg	90		78-144		
2378-TCDF	0.0151 U	0.0151	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0211 J	0.00810	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0643 J	0.00830	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0232 J	0.0118	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0318 J	0.00870	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0591 J	0.0114	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0278 J	0.00940	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0644 J	0.00660	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0566 J	0.0109	5.00	ng/kg	91		78-138		
OCDF	0.148 J	0.0203	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11060162401A	Sample number(s): 6209571-6209578					BKG: P208348			
28a Moisture Content by 160.3						9.7	9.6	0	20
Batch number: 11061162401B	Sample number(s): 6209579-6209583					BKG: P206985			
28a Moisture Content by 160.3						8.3	9.2	10	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233761
Reported: 03/16/11 at 09:03 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11055001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6209571	75	75	62	76	73	70
6209572	75	77	57	73	73	69
6209573	70	75	61	74	71	68
6209574	77	79	59	67	78	79
6209575	80	81	64	76	77	77
6209576	69	74	52	66	68	63
6209577	69	73	39	54	69	66
6209578	74	76	53	70	72	66
6209579	65	65	41	59	63	55
6209580	64	67	42	58	65	60
6209581	68	66	34	49	66	61
6209582	63	63	30	46	62	54
6209583	70	73	42	55	70	66
Blank	73	69	56	72	68	62
OPR	72	70	42	59	68	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6209571	86	64	62	87	77	77
6209572	86	64	61	88	80	74
6209573	89	63	60	85	77	74
6209574	72	73	70	86	81	71
6209575	83	72	69	89	83	79
6209576	78	63	61	80	77	69
6209577	62	63	58	85	75	66
6209578	84	63	59	84	78	74
6209579	71	52	47	84	74	68
6209580	66	56	52	83	70	67
6209581	54	57	53	84	69	63
6209582	53	55	50	78	69	60
6209583	64	62	58	86	76	66
Blank	85	58	56	96	76	73
OPR	65	61	56	85	74	68
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6209571	77	78	77	78	73	84
6209572	76	79	78	76	72	85
6209573	74	76	77	76	68	81
6209574	75	81	77	79	78	84
6209575	81	82	80	77	77	86
6209576	72	74	74	74	68	80
6209577	71	74	73	71	68	77
6209578	75	78	76	76	72	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1233761
Reported: 03/16/11 at 09:03 AM

Surrogate Quality Control

6209579	71	71	72	68	60	76
6209580	68	70	69	67	62	74
6209581	68	70	70	70	65	74
6209582	65	70	71	71	58	71
6209583	69	73	73	74	67	80
Blank	75	75	76	74	65	79
OPR	70	73	72	69	66	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap# 1233761 sample# 6209571-83

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	Perchlorate Confirmation by EPA 6850 (10%)	SB ONLY: *Asbestos EPA 9002/A (surface soil only)	*Radiologics EPA 9310 (surface soil only)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: *pH EPA 9045C	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-021-SA5A-SS-0.0-0.5	2.17.2011	0940	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-021-SA5A-SS-0.0-0.5	2.17.2011	0940	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-022-SA5A-SS-0.0-0.5	2.17.2011	0925	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-022-SA5A-SS-0.0-0.5	2.17.2011	0925	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-035-SA5A-SS-0.0-0.5	2.17.2011	1040	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-035-SA5A-SS-0.0-0.5	2.17.2011	1040	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-036-SA5A-SS-0.0-0.5	2.17.2011	1358	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-036-SA5A-SS-0.0-0.5	2.17.2011	1358	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-037-SA5A-SS-0.0-0.5	2.17.2011	1328	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	X													
SL-037-SA5A-SS-0.0-0.5	2.17.2011	1328	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-040-SA5A-SS-0.0-0.5	2.17.2011	1310	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-040-SA5A-SS-0.0-0.5	2.17.2011	1310	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-050-SA5A-SS-0.0-0.5	2.17.2011	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-050-SA5A-SS-0.0-0.5	2.17.2011	1420	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-051-SA5A-SS-0.0-0.5	2.17.2011	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X		X	X													
SL-051-SA5A-SS-0.0-0.5	2.17.2011	1440	SOIL	NONE	1-6 inch sleeve			X	X																			
SL-321-SA5B-SB-3.0-4.0	2.17.2011	1309	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-321-SA5B-SB-3.5	2.17.2011	1305	SOIL	NONE	5-Encores											X	X	X										
SL-322-SA5B-SB-3.0-4.0	2.17.2011	1530	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-322-SA5B-SB-3.5	2.17.2011	1526	SOIL	NONE	5-Encores											X	X	X										
SL-331-SA5B-SB-3.0-4.0	2.17.2011	1144	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-331-SA5B-SB-3.5	2.17.2011	1139	SOIL	NONE	5-Encores											X	X	X										
SL-336-SA5B-SB-4.0-5.0	2.17.2011	0919	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-336-SA5B-SB-4.5	2.17.2011	0915	SOIL	NONE	5-Encores											X	X	X										
SL-337-SA5B-SB-3.0-4.0	2.17.2011	1033	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-337-SA5B-SB-3.5	2.17.2011	1028	SOIL	NONE	5-Encores											X	X	X										
TB-021711	2.17.2011	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	02/17/2011 / 17:00	Yong Hwa	2/18/11 845
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 3151, ...3162	

Laboratory:
Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/10/2011
Group Number: 1236651
SDG: DE101
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-304-SA5B-SB-3.0-4.0 Soil	6226875
SL-225-SA5B-SB-2.0-3.0 Soil	6226876
TB-030911 Water	6226877

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Matthew E. Barton
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-304-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226875
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10101 SDG#: DE101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6		0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.8		0.82
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.82
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.82
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.82
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.82
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.82
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.8		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.82
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.82
06192	Methylene Chloride	75-09-2	0.81	J	0.23	3.8		0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.82

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Sample Description: SL-304-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226875
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10101 SDG#: DE101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.82
06192	Toluene	108-88-3	0.07	U	0.07	3.8		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.8		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226875
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10101 SDG#: DE101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226875
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10101 SDG#: DE101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	12	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.27
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226875
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10101 SDG#: DE101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.0	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	2.6		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The recoveries for target analytes in the Laboratory Control Spike are outside the QC acceptance limits as noted on the QC summary. The ending/bracketing CCV was analyzed past the 12 hour window.
The following corrective action was taken:
The sample was re-extracted within the method hold time. Target analytes were detected in the re-extracted method blank associated with the sample. The C8-C11 and C30-C40 results for the re-extraction are .41 mg/kg .49 mg/kg respectively. The inial in hold trial is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1

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Sample Description: **SL-304-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

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Project Name: SSFL Area IV Collocated Soil Sampling

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10101 SDG#: DE101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,100		5.58	22.2		1
07914	Boron	7440-42-8	7.65		0.987	5.55		1
01650	Calcium	7440-70-2	5,590		6.80	22.2		1
01654	Iron	7439-89-6	38,700		26.1	111		5
01656	Lithium	7439-93-2	53.2		0.24	2.2		1
01657	Magnesium	7439-95-4	8,930		2.82	11.1		1
06958	Manganese	7439-96-5	441		0.0865	0.555		1
10145	Phosphorus	7723-14-0	173		0.621	11.1		1
01662	Potassium	7440-09-7	2,140		20.0	55.5		1
01667	Sodium	7440-23-5	470		41.4	111		1
07968	Strontium	7440-24-6	40.6		0.0688	0.555		1
06969	Tin	7440-31-5	3.59	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,380		0.421	1.11		1
10146	Zirconium	7440-67-7	1.28	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.196	J	0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.4		0.0905	0.452		2
06126	Barium	7440-39-3	181		0.122	0.452		2
06127	Beryllium	7440-41-7	1.84		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.142		0.0452	0.113		2
06131	Chromium	7440-47-3	43.7		0.136	0.452		2
06132	Cobalt	7440-48-4	16.4		0.0226	0.113		2
06133	Copper	7440-50-8	25.3		0.0746	0.452		2
06135	Lead	7439-92-1	19.2		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.623		0.0565	0.113		2
06139	Nickel	7440-02-0	39.5		0.113	0.452		2
06141	Selenium	7782-49-2	0.143	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.206		0.0136	0.113		2
06145	Thallium	7440-28-0	0.368		0.0339	0.113		2
06148	Vanadium	7440-62-2	79.7		0.0249	0.113		2
06149	Zinc	7440-66-6	121		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0234	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-304-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226875
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10101 SDG#: DE101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	303		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-304-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110701AA	03/11/2011	15:53	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	12:05	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106923855	03/10/2011	13:02	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106923855	03/10/2011	13:08	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106923855	03/10/2011	13:08	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106923855	03/10/2011	13:03	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11070SLA026	03/16/2011	16:51	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011	16:59	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/22/2011	11:06	Joseph M Gambler	1

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Sample Description: **SL-304-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226875
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10101 SDG#: DE101-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11070SLA026	03/12/2011 06:50	David V Hershey Jr	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 13:20	Marie D John	24.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201106923855	03/10/2011 13:03	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110710003A	03/16/2011 10:57	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:07	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110740006A	03/17/2011 03:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110740006A	03/15/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110710003A	03/13/2011 16:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110730021A	03/16/2011 06:15	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 18:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 17:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110730020A	03/16/2011 13:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110730021A	03/15/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110730020A	03/15/2011 02:45	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 10:17	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:06	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2

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Sample Description: SL-304-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226875
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10101 SDG#: DE101-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 17:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 17:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11076076201A	03/28/2011 18:37	Nicole M Kepley	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 14:55	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11073102201A	03/14/2011 15:43	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11073102201A	03/14/2011 10:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Sample Description: SL-225-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10102 SDG#: DE101-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.7		0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.83
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.83
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.83
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.83
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.83
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.83
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.83
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.83
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.83
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.83
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.83
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.83
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.83
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9		0.83
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.83
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.83
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.83
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.83
06192	Methylene Chloride	75-09-2	0.84	J	0.23	3.9		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.83

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Sample Description: **SL-225-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10102 SDG#: DE101-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9		0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.8
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.4	J	19.3	38.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Sample Description: SL-225-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10102 SDG#: DE101-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.84	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	6.0		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.48	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.0		0.77	1.9		1

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Sample Description: **SL-225-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10102 SDG#: DE101-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.4	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: SL-225-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10102 SDG#: DE101-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported for RDX represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.73	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.7		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The recoveries for target analytes in the Laboratory Control Spike are outside the QC acceptance limits as noted on the QC summary. The ending/bracketing CCV was analyzed past the 12 hour window. The following corrective action was taken: The sample was re-extracted within the method hold time. Target analytes were detected in the re-extracted method blank associated with the sample. The C8-C11 result for the re-extraction is ND. The inial in hold trial is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.9	U	6.9	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-225-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10102 SDG#: DE101-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		5.65	22.5		1
07914	Boron	7440-42-8	6.35		1.00	5.62		1
01650	Calcium	7440-70-2	3,420		6.89	22.5		1
01654	Iron	7439-89-6	25,300		5.29	22.5		1
01656	Lithium	7439-93-2	47.1		0.25	2.2		1
01657	Magnesium	7439-95-4	4,730		2.85	11.2		1
06958	Manganese	7439-96-5	240		0.0876	0.562		1
10145	Phosphorus	7723-14-0	302		0.629	11.2		1
01662	Potassium	7440-09-7	2,140		20.2	56.2		1
01667	Sodium	7440-23-5	382		41.9	112		1
07968	Strontium	7440-24-6	36.4		0.0697	0.562		1
06969	Tin	7440-31-5	3.01	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,280		0.427	1.12		1
10146	Zirconium	7440-67-7	2.48	J	0.944	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.28		0.0908	0.454		2
06126	Barium	7440-39-3	180		0.123	0.454		2
06127	Beryllium	7440-41-7	1.07		0.0182	0.113		2
06128	Cadmium	7440-43-9	0.243		0.0454	0.113		2
06131	Chromium	7440-47-3	31.6		0.136	0.454		2
06132	Cobalt	7440-48-4	6.95		0.0227	0.113		2
06133	Copper	7440-50-8	12.3		0.0749	0.454		2
06135	Lead	7439-92-1	8.16		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.885		0.0567	0.113		2
06139	Nickel	7440-02-0	21.4		0.113	0.454		2
06141	Selenium	7782-49-2	0.186	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.110	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.303		0.0340	0.113		2
06148	Vanadium	7440-62-2	58.5		0.0250	0.113		2
06149	Zinc	7440-66-6	75.1		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.93	1.7		1

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Sample Description: SL-225-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

10102 SDG#: DE101-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	298		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-225-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110701AA	03/11/2011	16:15	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	12:25	Jason M Long	20.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201106923855	03/10/2011	13:05	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201106923855	03/10/2011	13:08	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201106923855	03/10/2011	13:08	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201106923855	03/10/2011	13:06	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11070SLA026	03/16/2011	17:08	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-225-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10102 SDG#: DE101-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11074SLA026	03/22/2011 17:24	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11074SLB026	03/22/2011 11:37	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11070SLA026	03/12/2011 06:50	David V Hershey Jr	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11074SLB026	03/15/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11074SLA026	03/15/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 13:56	Marie D John	20.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201106923855	03/10/2011 13:06	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110710003A	03/16/2011 11:39	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:17	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110740006A	03/17/2011 03:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110740006A	03/15/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110710003A	03/13/2011 16:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110730021A	03/16/2011 06:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 18:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 18:57	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110730020A	03/16/2011 14:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110730021A	03/15/2011 02:45	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110730020A	03/15/2011 02:45	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:10	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2

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Sample Description: **SL-225-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226876
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10102 SDG#: DE101-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 17:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 17:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 21:09	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 15:26	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11073102201A	03/14/2011 16:21	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11073102201A	03/14/2011 10:00	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-030911 Water
SSFL Area IV Collocated Soil Sampling
TB-030911

LLI Sample # WW 6226877
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 08:00

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10103 SDG#: DE101-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **TB-030911 Water**
SSFL Area IV Collocated Soil Sampling
TB-030911

LLI Sample # WW 6226877
LLI Group # 1236651
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 08:00

Submitted: 03/10/2011 09:10
Reported: 03/31/2011 10:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10103 SDG#: DE101-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110741AA	03/15/2011	15:17	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110731AA	03/14/2011	11:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110731AA	03/14/2011	11:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110741AA	03/15/2011	15:17	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11075A20A	03/16/2011	20:47	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11075A20A	03/16/2011	20:47	Katrina T Longenecker	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110701AA	Sample number(s): 6226875-6226876									
Acetone	6.7	U	6.7	8.0	ug/kg	114	116	32-209	2	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	104	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101	101	79-120	0	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	124	120	79-124	3	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95	94	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	83	84	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	77	77	32-162	0	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	106	107	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	110	108	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112	110	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	104	100	75-120	4	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	98	96	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	96	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	80	79	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	102	104	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	103	102	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	81	79	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	102	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	100	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	96	97	22-131	0	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	94	96	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	89	88	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	98	80-120	1	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	100	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	97	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	99	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	65	62	20-120	4	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104	101	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	101	101	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114	111	73-123	3	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	102	80-120	2	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	104	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	101	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99	99	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	96	95	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	103	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92	93	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	88	89	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	101	100	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	119	115	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	110	109	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102	98	57-120	3	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	105	108	45-155	3	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	102	99	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110	107	75-120	3	30

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	99	100	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	103	102	61-134	0	30
Methylene Chloride	0.65	J	0.24	4.0	ug/kg	111	109	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112	109	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	96	95	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	90	80-120	3	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	102	102	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99	96	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	102	99	80-120	2	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	94	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	98	95	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	100	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98	97	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	100	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96	93	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	104	103	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	107	105	79-120	2	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107	104	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	86	82	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	97	95	80-120	2	30
Batch number: E110731AA	Sample number(s): 6226877									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	115	80-123	4	30
Batch number: E110741AA	Sample number(s): 6226875-6226876									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	104	70-130	4	30
Batch number: Y110741AA	Sample number(s): 6226877									
Acetone	6	U	6.	20	ug/l	79	70	49-234	13	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	100	99	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	99	100	80-120	0	30
Bromodichloromethane	1	U	1.	5	ug/l	93	92	80-120	2	30
Bromoform	1	U	1.	5	ug/l	76	76	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	86	86	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	95	96	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	95	95	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	96	98	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	82	82	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	79	79	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	100	100	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	85	86	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	67	69	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	88	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	87	86	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	98	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	96	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	77	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	100	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	108	106	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	91	90	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	97	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	99	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	90	89	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	96	95	79-120	2	30
Freon 113	2	U	2.	10	ug/l	93	94	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	99	99	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	88	89	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	94	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	97	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	94	95	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	101	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	94	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	93	94	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	95	94	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	94	94	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	93	93	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	92	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	88	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	95	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	92	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	99	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	98	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Batch number: 11070SLA026	Sample number(s): 6226875-6226876									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	85		70-130		
Batch number: 11074SLA026	Sample number(s): 6226875-6226876									
Aniline	170 U		170.	500	ug/kg	57		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	29		15-121		
Benzoic acid	170 U		170.	500	ug/kg	92		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	95		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		79-117		
Di-n-butylphthalate	17	U	17.	170	ug/kg	95		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	24		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	52		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	90		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	83		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	84		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	89		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	90		51-117		
Phenol	17	U	17.	170	ug/kg	93		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11074SLB026	Sample number(s): 6226875-6226876									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	121		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	99		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	120		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	123		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 11073A34A	Sample number(s): 6226875-6226876									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72		67-119		
Batch number: 11075A20A	Sample number(s): 6226877									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 110710003A	Sample number(s): 6226875-6226876									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	121	115	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	120	114	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	112		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	101		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	109		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800 U		800.	2,400	ug/kg	116		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	108		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 110730008A	Sample number(s): 6226875-6226876									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 110740006A	Sample number(s): 6226875-6226876									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	72	73	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	82		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	93		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110730021A	Sample number(s): 6226875-6226876									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	115*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	119*		66-113		
EFH (C21-C30)	0.45	J	0.40	1.2	mg/kg	126*		66-113		
EFH (C30 - C40)	1.3		0.40	1.2	mg/kg	116*		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	95		66-113		
Batch number: 110730007A	Sample number(s): 6226875-6226876									
Diethylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	80		75-125		
Batch number: 110750026A	Sample number(s): 6226875-6226876									
Ethanol	100	U	100.	500	ug/kg	95		71-129		
Isopropanol	100	U	100.	500	ug/kg	102		75-125		
Methanol	100	U	100.	500	ug/kg	91		68-129		
Batch number: 110730020A	Sample number(s): 6226875-6226876									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
Batch number: 110751026001A	Sample number(s): 6226875-6226876									
Antimony	0.0600	U	0.0600	0.200	mg/kg	95		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0105	J	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	102		90-110		
Zinc	0.644	J	0.560	3.00	mg/kg	101		78-122		
Batch number: 110751026001B	Sample number(s): 6226875-6226876									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		
Batch number: 110751026001C	Sample number(s): 6226875-6226876									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110751026001D	Sample number(s): 6226875-6226876									
Barium	0.108	U	0.108	0.400	mg/kg	103		79-121		
Batch number: 110755708001	Sample number(s): 6226875-6226876									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	8.02	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.34	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.44	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110755711002	Sample number(s): 6226875-6226876									
Mercury	0.0028	U	0.0028	0.0985	mg/kg	98		88-123		
Batch number: 11073102201A	Sample number(s): 6226875-6226876									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11074243201A	Sample number(s): 6226875-6226876									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11076076201A	Sample number(s): 6226875-6226876									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11076495201A	Sample number(s): 6226875-6226876									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11074039401A	Sample number(s): 6226875-6226876									
18a pH by 9045C						100		95-105		
Batch number: 11074182101A	Sample number(s): 6226875-6226876									
32a OR Potential						99		98-102		
Batch number: 11077162401A	Sample number(s): 6226875-6226876									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E110741AA	Sample number(s): 6226875-6226876 UNSPK: P228978								
1,4-Dioxane	95	98	70-130	11	30				
Batch number: 11070SLA026	Sample number(s): 6226875-6226876 UNSPK: P222144								
N-Nitrosodimethylamine	77	72	70-130	6	30				
Batch number: 11074SLA026	Sample number(s): 6226875-6226876 UNSPK: P223281								
Aniline	73	75	35-95	2	30				
Benzidine	29*	32*	35-141	8	30				
Benzoic acid	73	65	10-173	11	30				
Benzyl alcohol	89	89	67-115	0	30				
4-Bromophenyl-phenylether	90	91	67-129	0	30				
Di-n-butylphthalate	90	90	67-123	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	91	91	64-120	1	30				
4-Chloro-3-methylphenol	89	88	76-110	2	30				
4-Chloroaniline	62	60	23-95	3	30				
bis(2-Chloroethoxy)methane	87	86	75-104	1	30				
bis(2-Chloroethyl)ether	84	83	60-116	1	30				
bis(2-Chloroisopropyl)ether	84	82	55-142	3	30				
2-Chloronaphthalene	70	71	50-141	1	30				
2-Chlorophenol	92	90	73-121	2	30				
4-Chlorophenyl-phenylether	95	94	80-109	1	30				
Dibenzofuran	92	93	71-112	1	30				
1,2-Dichlorobenzene	82	81	66-108	1	30				
1,3-Dichlorobenzene	79	76	63-109	3	30				
1,4-Dichlorobenzene	79	78	70-100	2	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	93	92	78-117	1	30				
2,4-Dimethylphenol	89	88	78-110	0	30				
3,5-Dimethylphenol	100	96	70-130	4	30				
4,6-Dinitro-2-methylphenol	78	79	24-116	1	30				
2,4-Dinitrophenol	71	72	20-143	1	30				
2,4-Dinitrotoluene	92	94	73-113	2	30				
2,6-Dinitrotoluene	92	93	69-123	1	30				
1,2-Diphenylhydrazine	88	88	71-129	0	30				
Hexachlorobenzene	92	92	77-114	1	30				
Hexachlorobutadiene	83	82	62-120	2	30				
Hexachlorocyclopentadiene	85	75	10-153	12	30				
Hexachloroethane	74	73	57-109	1	30				
Isophorone	83	82	73-102	1	30				
2-Methylphenol	92	90	75-111	2	30				
4-Methylphenol	95	87	71-111	9	30				
2-Nitroaniline	90	93	67-125	3	30				
3-Nitroaniline	89	89	59-122	1	30				
4-Nitroaniline	74	74	52-112	0	30				
Nitrobenzene	81	81	72-106	0	30				
2-Nitrophenol	84	86	74-115	2	30				
4-Nitrophenol	80	81	54-113	2	30				
N-Nitroso-di-n-propylamine	80	80	60-116	0	30				
N-Nitrosodiphenylamine	94	95	86-145	1	30				
Pentachlorophenol	81	83	28-127	3	30				
Phenol	90	89	58-126	1	30				
1,2,4-Trichlorobenzene	87	87	72-115	0	30				
2,4,5-Trichlorophenol	92	92	78-109	0	30				
2,4,6-Trichlorophenol	89	90	77-115	2	30				
Batch number: 11074SLB026	Sample number(s): 6226875-6226876 UNSPK: P222138								
Acenaphthene	96	96	63-105	1	30				
Acenaphthylene	97	96	67-114	1	30				
Anthracene	101	101	60-122	0	30				
Benzo(a)anthracene	104	102	59-128	2	30				
Benzo(a)pyrene	110	110	45-138	0	30				
Benzo(b)fluoranthene	114	121	43-155	6	30				
Benzo(g,h,i)perylene	115	126	33-141	9	30				
Benzo(k)fluoranthene	113	103	42-144	10	30				
Butylbenzylphthalate	114	104	57-173	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	103	102	48-134	2	30				
Dibenz(a,h)anthracene	120	128	22-133	7	30				
Diethylphthalate	111	102	70-136	9	30				
Dimethylphthalate	110	111	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	117	107	39-167	9	30				
Fluoranthene	111	104	26-166	6	30				
Fluorene	105	101	66-122	3	30				
Indeno(1,2,3-cd)pyrene	117	126	21-143	7	30				
1-Methylnaphthalene	99	99	72-123	0	30				
2-Methylnaphthalene	90	90	64-103	0	30				
Naphthalene	98	98	61-102	0	30				
N-Nitrosodimethylamine	99	97	48-113	2	30				
Di-n-octylphthalate	124	115	40-192	8	30				
Phenanthrene	98	98	12-165	0	30				
Pyrene	90	87	15-153	4	30				
Batch number: 11073A34A	Sample number(s): 6226875-6226876 UNSPK: P228978								
9a TPH by EPA 8015B Gas C5-C12	59	60	39-118	18	30				
Batch number: 110710003A	Sample number(s): 6226875-6226876 UNSPK: P222144								
4-Amino-2,6-Dinitrotoluene	89	92	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	87	89	80-137	2	50				
1,3-Dinitrobenzene	90	92	38-166	3	50				
2,4-Dinitrotoluene	87	89	80-131	3	50				
2,6-Dinitrotoluene	91	93	80-127	2	50				
HMX	75	77	63-128	2	50				
Nitrobenzene	88	91	80-125	4	50				
Nitroglycerin	83	85	80-120	3	50				
2-Nitrotoluene	90	91	80-122	1	50				
3-Nitrotoluene	90	91	72-119	1	50				
4-Nitrotoluene	88	90	80-125	2	50				
PETN	89	91	80-121	3	50				
RDX	74*	77	75-129	4	50				
Tetryl	75	72	55-174	4	50				
1,3,5-Trinitrobenzene	89	90	82-126	2	50				
2,4,6-Trinitrotoluene	88	91	82-130	3	50				
Batch number: 110730008A	Sample number(s): 6226875-6226876 UNSPK: P228978								
25a Formaldehyde 8315A	99	95	80-120	4	50				
Batch number: 110740006A	Sample number(s): 6226875-6226876 UNSPK: P213417								
PCB-1016	87	85	29-146	2	50				
PCB-1260	129	100	39-149	21	50				
Batch number: 110730021A	Sample number(s): 6226875-6226876 UNSPK: P224306								
EFH (C12-C14)	111	102	49-123	8	20				
EFH (C15-C20)	131*	121	49-123	8	20				
EFH (C21-C30)	113	121	49-123	5	20				
EFH (C30 - C40)	35*	156*	49-123	51*	20				
EFH (C8-C11)	107	108	49-123	1	20				
Batch number: 110730007A	Sample number(s): 6226875-6226876 UNSPK: P228978								
Diethylene glycol	54*	67	59-109	21*	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylene glycol	68	73	63-107	6	20				
Propylene glycol	75	76	63-107	2	20				
Batch number: 110750026A	Sample number(s): 6226875-6226876 UNSPK: P228978								
Ethanol	79	77	48-130	2	20				
Isopropanol	85	83	12-149	2	20				
Methanol	81	79	43-138	3	20				
Batch number: 110730020A	Sample number(s): 6226875-6226876 UNSPK: P222144								
m-Terphenyl	78	78	75-125	1	20				
o-Terphenyl	93	95	75-125	2	20				
p-Terphenyl	77	77	75-125	1	20				
Batch number: 110751026001A	Sample number(s): 6226875-6226876 UNSPK: P228978 BKG: P228978								
Antimony	50*	45*	75-125	10	20	0.224	0.155 J	36* (1)	20
Arsenic	105	107	75-125	0	20	7.19	5.70	23*	20
Beryllium	102	99	75-125	2	20	0.883	0.733	18	20
Cadmium	128*	108	75-125	15	20	0.344	0.210	49* (1)	20
Chromium	96	89	75-125	2	20	34.2	28.1	20	20
Cobalt	105	94	75-125	12	20	7.97	7.62	4	20
Copper	95	89	75-125	4	20	13.6	12.3	10	20
Lead	162*	96	75-125	14	20	10.3	8.72	16	20
Nickel	160*	110	75-125	15	20	21.4	18.1	17	20
Silver	117	118	75-125	1	20	0.0603 J	0.0471 J	25* (1)	20
Thallium	128*	95	75-125	18	20	0.323	0.250	25* (1)	20
Vanadium	119 (2)	96 (2)	75-125	3	20	63.4	53.0	18	20
Zinc	66 (2)	69 (2)	75-125	0	20	63.4	54.4	15	20
Batch number: 110751026001B	Sample number(s): 6226875-6226876 UNSPK: P228978 BKG: P228978								
Selenium	111	106	75-125	7	20	0.125 J	0.0660 J	62* (1)	20
Batch number: 110751026001C	Sample number(s): 6226875-6226876 UNSPK: P228978 BKG: P228978								
Molybdenum	120	113	75-125	8	20	0.270	0.240	12 (1)	20
Batch number: 110751026001D	Sample number(s): 6226875-6226876 UNSPK: P228978 BKG: P228978								
Barium	134 (2)	116 (2)	75-125	2	20	117	92.8	23*	20
Batch number: 110755708001	Sample number(s): 6226875-6226876 UNSPK: P228978 BKG: P228978								
Aluminum	1171 (2)	414 (2)	75-125	5	20	28,700	27,700	3	20
Boron	99	99	84-115	2	20	10.7	10.2	5 (1)	20
Calcium	6342 (2)	7873 (2)	75-125	12	20	27,700	33,300	18	20
Iron	-650 (2)	-2631 (2)	75-125	8	20	26,400	25,500	4	20
Lithium	104	103	82-114	2	20	25.5	25.1	2	20
Magnesium	-50 (2)	-194 (2)	75-125	5	20	6,430	6,210	3	20
Manganese	-167 (2)	-131 (2)	75-125	6	20	350	356	2	20
Phosphorus	77	89	75-125	5	20	190	209	9	20
Potassium	118	110	75-125	1	20	2,650	2,690	2	20
Sodium	100	99	75-125	2	20	219	211	4 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Strontium	102	93	75-115	4	20	52.0		52.4		1	20
Tin	84	84	80-110	3	20	2.40	J	2.16	J	10 (1)	20
Titanium	163 (2)	138 (2)	75-125	1	20	1,210		1,190		2	20
Zirconium	95	96	75-125	3	20	4.30	J	5.09		17 (1)	20
Batch number: 110755711002	Sample number(s): 6226875-6226876 UNSPK: P228978 BKG: P228978										
Mercury	108	103	65-135	7	20	0.0071	J	0.0110	J	43* (1)	20
Batch number: 11073102201A	Sample number(s): 6226875-6226876 UNSPK: P222144 BKG: P222144										
17a Cyanide by 9012B	105		75-125			0.17	U	0.17	U	0 (1)	20
Batch number: 11074243201A	Sample number(s): 6226875-6226876 UNSPK: P228978 BKG: P228978										
3a Cr VI by EPA 7199	89		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11076076201A	Sample number(s): 6226875-6226876 UNSPK: P224306 BKG: P224306										
7a Perchlorate EPA 314.0	115		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11076495201A	Sample number(s): 6226875-6226876 UNSPK: P228978 BKG: P228978										
11a Anions by 300.0 - Fluoride	72*		80-120			5.1		5.1		0	20
11a Anions by 300.0 - Nitrate	98		80-120			1.7		1.5		13 (1)	20
Batch number: 11074039401A	Sample number(s): 6226875-6226876 BKG: P225085										
18a pH by 9045C						6.66		6.66		0	1
Batch number: 11074182101A	Sample number(s): 6226875-6226876 BKG: P225085										
32a OR Potential						382		385		1	6
Batch number: 11077162401A	Sample number(s): 6226875-6226876 BKG: 6226876										
Moisture Content by 160.3						13.6		13.7		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110701AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6226875	99	101	99	95
6226876	97	97	98	93
Blank	98	100	96	95
LCS	100	102	101	99
LCSD	100	102	100	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110731AA

	Toluene-d8

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Surrogate Quality Control

6226877	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110741AA

	Toluene-d8
6226875	95
6226876	95
Blank	95
LCS	95
LCSD	99
MS	95
MSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110741AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6226877	103	100	101	97
Blank	103	99	101	97
LCS	103	102	101	98
LCSD	103	102	101	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11070SLA026

	N-Nitrosodimethylamine-d6
6226875	78
6226876	83
Blank	85
LCS	83
MS	85
MSD	88
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11074SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6226875	75	78	73	67	77	85
6226876	79	80	76	67	77	86
Blank	84	87	89	77	86	83
LCS	95	96	101	82	91	91
MS	91	92	97	79	91	89
MSD	89	90	97	79	91	90

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Surrogate Quality Control

Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11074SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6226875	89	82	82
6226876	99	94	86
Blank	98	93	100
LCS	97	91	94
MS	103	94	93
MSD	102	95	90
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11073A34A

	Trifluorotoluene-F
6226875	80
6226876	80
Blank	82
LCS	86
MS	76
MSD	74
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11075A20A

	Trifluorotoluene-F
6226877	65
Blank	65
LCS	100
LCSD	103
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 110710003A

	2-Nitro-m-xylene
6226875	109
6226876	111
Blank	115
LCS	124
LCSD	114
MS	103
MSD	99
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110730008A

	Butyraldehyde

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Surrogate Quality Control

6226875	92	
6226876	98	
Blank	101	
LCS	102	
MS	98	
MSD	93	
Limits:	64-126	

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110740006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6226875	74	82
6226876	74	92
Blank	81	91
LCS	79	89
LCSD	81	96
MS	79	81
MSD	78	78
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110730007A

	Tetramethylene glycol
6226875	62
6226876	47
Blank	99
LCS	98
MS	83
MSD	78
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110730020A

	n-Triacontane-d62
6226875	77
6226876	81
Blank	87
LCS	78
MS	74
MSD	73
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110730021A

	Chlorobenzene	Orthoterphenyl
6226875	80	107
6226876	83	110
Blank	80	114

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236651
Reported: 03/31/11 at 10:21 AM

Surrogate Quality Control

LCS	86	117
MS	82	116
MSD	79	106
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 110750026A

	Acetone
6226875	90
6226876	91
Blank	108
LCS	106
MS	85
MSD	83
Limits:	42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1236651 Sample# 6226875-77

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-304-SA5B-SB-3.0-4.0	03.09.11	1230	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-304-SA5B-SB-3.5	03.09.11	1230	SOIL	NONE	5-Encores									X	X	X											
SL-225-SA5B-SB-2.0-3.0	03.09.11	0920	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-225-SA5B-SB-2.5	03.09.11	0919	SOIL	NONE	5-Encores									X	X	X											
TB-030911	03.09.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 03/09/2011 / 17:00

Received for Laboratory by: (Signature) — 3/10/11 910

Received by: (Signature) — Date/Time

Airbill No.(s): 8695 1432 5408

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/10/2011
Group Number: 1236652
SDG: DX061
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-304-SA5B-SB-3.0-4.0 Soil	6226878
SL-225-SA5B-SB-2.0-3.0 Soil	6226879

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-304-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226878
LLI Group # 1236652
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/30/2011 17:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6117 SDG#: DX061-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-304-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226878
LLI Group # 1236652
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/30/2011 17:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6117 SDG#: DX061-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0286 JQ	0.0110	1.15	1
11031	12378-PeCDD	40321-76-4	0.0441 JBQ	0.0114	5.77	1
11031	123478-HxCDD	39227-28-6	0.0241 J	0.0145	5.77	1
11031	123678-HxCDD	57653-85-7	0.0551 JQ	0.0140	5.77	1
11031	123789-HxCDD	19408-74-3	0.0817 JB	0.0123	5.77	1
11031	1234678-HpCDD	35822-46-9	0.262 JBQ	0.0152	5.77	1
11031	OCDD	3268-87-9	0.639 JB	0.0151	11.5	1
11031	2378-TCDF	51207-31-9	0.00773 U	0.00773	1.15	1
11031	12378-PeCDF	57117-41-6	0.0451 JB	0.00484	5.77	1
11031	23478-PeCDF	57117-31-4	0.0761 JB	0.00496	5.77	1
11031	123478-HxCDF	70648-26-9	0.0501 JBQ	0.0141	5.77	1
11031	123678-HxCDF	57117-44-9	0.0522 JBQ	0.00957	5.77	1
11031	123789-HxCDF	72918-21-9	0.0805 J	0.00750	5.77	1
11031	234678-HxCDF	60851-34-5	0.0726 JBQ	0.00681	5.77	1
11031	1234678-HpCDF	67562-39-4	0.196 JBQ	0.00900	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0713 JB	0.00888	5.77	1
11031	OCDF	39001-02-0	0.326 JB	0.0155	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-304-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226878
LLI Group # 1236652
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/30/2011 17:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6117 SDG#: DX061-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-304-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-304-SA5B-SB-3.0-4.0

LLI Sample # SW 6226878
LLI Group # 1236652
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 12:30

Submitted: 03/10/2011 09:10
Reported: 03/30/2011 17:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6117 SDG#: DX061-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11077001	03/23/2011 18:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11077001	03/18/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-225-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226879
LLI Group # 1236652
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/30/2011 17:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6118 SDG#: DX061-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-225-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226879
LLI Group # 1236652
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/30/2011 17:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6118 SDG#: DX061-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.129	JB	0.0324	1.16	1
11031	12378-PeCDD	40321-76-4	0.0637	U	0.0637	5.79	1
11031	123478-HxCDD	39227-28-6	0.0826	JB	0.0823	5.79	1
11031	123678-HxCDD	57653-85-7	1.01	JB	0.0836	5.79	1
11031	123789-HxCDD	19408-74-3	0.736	JB	0.0824	5.79	1
11031	1234678-HpCDD	35822-46-9	15.0	B	0.0558	5.79	1
11031	OCDD	3268-87-9	207	B	0.0456	11.6	1
11031	2378-TCDF	51207-31-9	0.0272	U	0.0272	1.16	1
11031	12378-PeCDF	57117-41-6	0.120	JB	0.0118	5.79	1
11031	23478-PeCDF	57117-31-4	0.0754	JBQ	0.0119	5.79	1
11031	123478-HxCDF	70648-26-9	0.0856	JB	0.0431	5.79	1
11031	123678-HxCDF	57117-44-9	0.114	JB	0.0356	5.79	1
11031	123789-HxCDF	72918-21-9	0.258	JB	0.0483	5.79	1
11031	234678-HxCDF	60851-34-5	0.116	JB	0.0399	5.79	1
11031	1234678-HpCDF	67562-39-4	1.48	JB	0.0201	5.79	1
11031	1234789-HpCDF	55673-89-7	0.219	JB	0.0362	5.79	1
11031	OCDF	39001-02-0	4.31	JB	0.0252	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-225-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-225-SA5B-SB-2.0-3.0

LLI Sample # SW 6226879
LLI Group # 1236652
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/09/2011 09:20

Submitted: 03/10/2011 09:10
Reported: 03/30/2011 17:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6118 SDG#: DX061-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-225-SA5B-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6118 SDG#: DX061-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11083001	03/25/2011 22:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11083001	03/24/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11077162401A	03/18/2011 17:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236652
Reported: 03/30/11 at 05:04 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11077162401A	Sample number(s): 6226878-6226879								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11077001	Sample number(s): 6226878								
2378-TCDD	0.0100 U	0.0100	1.00	ng/kg	110		67-158		
12378-PeCDD	0.0179 J	0.00970	5.00	ng/kg	112		70-142		
123478-HxCDD	0.00820 U	0.00820	5.00	ng/kg	110		70-164		
123678-HxCDD	0.00840 U	0.00840	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0135 J	0.00740	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.130 J	0.0135	5.00	ng/kg	106		70-140		
OCDD	0.336 J	0.0147	10.0	ng/kg	107		78-144		
2378-TCDF	0.00810 U	0.00810	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0209 J	0.00450	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0470 J	0.00470	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0221 J	0.0101	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0193 J	0.00730	5.00	ng/kg	105		84-130		
123789-HxCDF	0.00630 U	0.00630	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0455 J	0.00530	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0994 J	0.00700	5.00	ng/kg	106		82-122		
1234789-HpCDF	0.0344 J	0.00800	5.00	ng/kg	105		78-138		
OCDF	0.169 J	0.0213	10.0	ng/kg	104		63-170		
Batch number: 11083001	Sample number(s): 6226879								
2378-TCDD	0.0184 J	0.0116	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0317 J	0.0137	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0256 J	0.0122	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0244 J	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0275 J	0.0120	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.202 J	0.0177	5.00	ng/kg	92		70-140		
OCDD	0.392 J	0.0215	10.0	ng/kg	91		78-144		
2378-TCDF	0.0219 J	0.0127	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0346 J	0.00620	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0885 J	0.00690	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0527 J	0.0118	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0416 J	0.00890	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0883 J	0.0140	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0701 J	0.0105	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.141 J	0.00740	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0667 J	0.0165	5.00	ng/kg	90		78-138		
OCDF	0.221 J	0.0278	10.0	ng/kg	89		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236652
Reported: 03/30/11 at 05:04 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11077162401A	Sample number(s): 6226878-6226879					BKG: P226876			
Moisture Content by 160.3						13.6	13.7	1	20
Batch number: 11077001	Sample number(s): 6226878					UNSPK: P220848			
2378-TCDD	107	110	67-158	2	25				
12378-PeCDD	109	112	70-142	2	25				
123478-HxCDD	108	110	70-164	2	25				
123678-HxCDD	109	110	76-134	1	25				
123789-HxCDD	107	107	64-162	0	25				
1234678-HpCDD	105	107	70-140	1	25				
OCDD	105	106	78-144	1	25				
2378-TCDF	114	117	75-158	3	25				
12378-PeCDF	107	106	80-134	0	25				
23478-PeCDF	106	107	68-160	1	25				
123478-HxCDF	104	106	72-134	1	25				
123678-HxCDF	105	104	84-130	0	25				
123789-HxCDF	103	105	78-130	1	25				
234678-HxCDF	106	106	70-156	0	25				
1234678-HpCDF	103	104	82-122	1	25				
1234789-HpCDF	105	106	78-138	1	25				
OCDF	103	104	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11077001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6226878	82	87	42	59	81	81
Blank	86	84	46	64	85	80
MS	70	70	64	76	72	63
MSD	70	72	67	80	74	66
OPR	88	78	38	53	81	81
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6226878	65	72	66	97	82	72
Blank	68	67	57	106	87	84
MS	82	58	52	89	72	76
MSD	85	53	44	84	72	76
OPR	52	62	49	88	80	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1236652
Reported: 03/30/11 at 05:04 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6226878	74	79	79	78	84	90
Blank	88	91	82	71	84	91
MS	79	76	71	64	69	76
MSD	79	78	66	58	71	81
OPR	77	86	73	63	84	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11083001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6226879	72	78	70	80	74	67
Blank	87	76	67	86	75	64
OPR	69	72	66	75	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6226879	91	60	55	96	79	77
Blank	107	57	50	114	87	86
OPR	88	62	59	98	73	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6226879	84	79	81	76	73	82
Blank	91	88	88	82	75	90
OPR	77	73	75	74	68	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1236052 Sample#6226878-79

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-304-SA5B-SB-3.0-4.0	03.09.11	1230	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-304-SA5B-SB-3.5	03.09.11	1230	SOIL	NONE	5-Encores									X	X	X											
SL-225-SA5B-SB-2.0-3.0	03.09.11	0920	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-225-SA5B-SB-2.5	03.09.11	0919	SOIL	NONE	5-Encores									X	X	X											
TB-030911	03.09.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/09/2011 / 17:00 — Received for Laboratory by: (*Signature*) Mary Harlan 3/10/11 910

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8695 1432 5408

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/12/2011
Group Number: 1237087
SDG: DE102
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP09-SA5A-QC-031111 Soil	6228975
SL-112-SA5A-SB-8.5-9.5 Soil	6228976
SL-112-SA5A-SB-14.0-15.0 Soil	6228977
SL-114-SA5A-SB-4.0-5.0 Soil	6228978
SL-114-SA5A-SB-4.0-5.0MS Soil	6228979
SL-114-SA5A-SB-4.0-5.0MSD Soil	6228980
SL-114-SA5A-SB-4.0-5.0DUP Soil	6228981
SL-114-SA5A-SB-9.0-10.0 Soil	6228982
SL-113-SA5A-SB-9.0-10.0 Soil	6228983
SL-113-SA5A-SB-14.0-15.0 Soil	6228984
SL-227-SA5B-SB-2.5-3.5 Soil	6228985
TB-031111 Water	6228986

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP09-SA5A-QC-031111 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.85
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.85
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.85
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.85
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.85
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.85
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.85
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.85
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.85
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.85
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.85
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.85
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.85
06192	Methylene Chloride	75-09-2	0.78	J	0.25	4.1		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.85

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Sample Description: DUP09-SA5A-QC-031111 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.85
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.85
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.85
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		23.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	203	U	203	405		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1

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Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.41	U	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1

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SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		20.87
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
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Project Name: SSFL Area IV Collocated Soil Sampling

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10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	730	U	730	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	1.0	J	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	2.9		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1

Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are ND and 0.71 mg/kg respectively. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1

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DUP09-SA5A-QC-031111

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10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	35,100		5.99	23.8		1
07914	Boron	7440-42-8	12.4		1.06	5.96		1
01650	Calcium	7440-70-2	18,500		7.30	23.8		1
01654	Iron	7439-89-6	34,500		28.1	119		5
01656	Lithium	7439-93-2	29.6		0.26	2.4		1
01657	Magnesium	7439-95-4	8,330		3.03	11.9		1
06958	Manganese	7439-96-5	388		0.0929	0.596		1
10145	Phosphorus	7723-14-0	313		0.667	11.9		1
01662	Potassium	7440-09-7	3,920		21.4	59.6		1
01667	Sodium	7440-23-5	211		44.4	119		1
07968	Strontium	7440-24-6	56.2		0.0739	0.596		1
06969	Tin	7440-31-5	3.01	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,530		0.453	1.19		1
10146	Zirconium	7440-67-7	5.35	J	1.00	5.96		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.227	J	0.0722	0.241		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.98		0.0962	0.481		2
06126	Barium	7440-39-3	160		0.130	0.481		2
06127	Beryllium	7440-41-7	1.08		0.0192	0.120		2
06128	Cadmium	7440-43-9	0.383		0.0481	0.120		2
06131	Chromium	7440-47-3	39.2		0.144	0.481		2
06132	Cobalt	7440-48-4	12.3		0.0241	0.120		2
06133	Copper	7440-50-8	17.7		0.0794	0.481		2
06135	Lead	7439-92-1	13.2		0.0125	0.241		2
06138	Molybdenum	7439-98-7	0.458		0.0602	0.120		2
06139	Nickel	7440-02-0	29.7		0.120	0.481		2
06141	Selenium	7782-49-2	0.162	J	0.0481	0.481		2
06142	Silver	7440-22-4	0.0505	J	0.0144	0.120		2
06145	Thallium	7440-28-0	0.441		0.0361	0.120		2
06148	Vanadium	7440-62-2	75.8		0.0265	0.120		2
06149	Zinc	7440-66-6	89.9		0.674	3.61		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0083	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.97	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	388		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	11.5		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	17.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 15:02	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 12:45	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:03	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:04	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 02:11	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 20:27	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 10:35	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 17:03	Marie D John	20.87
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:03	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 04:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 08:46	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/24/2011 21:55	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 18:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 19:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 01:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 10:21	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1

*=This limit was used in the evaluation of the final result
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Sample Description: DUP09-SA5A-QC-031111 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228975
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10301 SDG#: DE102-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:31	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 18:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 18:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 21:33	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 15:38	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:33	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-112-SA5A-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.8		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.99
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.99
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.99
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.99
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.99
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.99
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.99
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.99
06192	Methylene Chloride	75-09-2	1.8	J	0.26	4.4		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.99

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.99
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.99
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		25.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	185	U	185	370		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	25	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	20	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	25	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	24	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	20	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	28	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	J	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Phenanthrene	85-01-8	0.88	J	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.89
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.59	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	2.7		0.89	2.7		2
10199	EFH (C21-C30)	n.a.	49		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	120		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.52	22.0		1
07914	Boron	7440-42-8	4.79	J	0.977	5.49		1
01650	Calcium	7440-70-2	3,300		6.73	22.0		1
01654	Iron	7439-89-6	19,000		5.17	22.0		1
01656	Lithium	7439-93-2	25.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,390		2.79	11.0		1
06958	Manganese	7439-96-5	270		0.0856	0.549		1
10145	Phosphorus	7723-14-0	367		0.615	11.0		1
01662	Potassium	7440-09-7	2,900		19.8	54.9		1
01667	Sodium	7440-23-5	142		40.9	110		1
07968	Strontium	7440-24-6	17.4		0.0681	0.549		1
06969	Tin	7440-31-5	2.79	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,120		0.417	1.10		1
10146	Zirconium	7440-67-7	1.74	J	0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0640	U	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.94		0.0853	0.426		2
06126	Barium	7440-39-3	115		0.115	0.426		2
06127	Beryllium	7440-41-7	0.598		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.119		0.0426	0.107		2
06131	Chromium	7440-47-3	17.6		0.128	0.426		2
06132	Cobalt	7440-48-4	6.01		0.0213	0.107		2
06133	Copper	7440-50-8	8.04		0.0704	0.426		2
06135	Lead	7439-92-1	5.56		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.485		0.0533	0.107		2
06139	Nickel	7440-02-0	12.5		0.107	0.426		2
06141	Selenium	7782-49-2	0.0998	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0245	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.294		0.0320	0.107		2
06148	Vanadium	7440-62-2	37.5		0.0235	0.107		2
06149	Zinc	7440-66-6	74.1		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.4		0.89	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-112-SA5A-SB-9.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 15:25	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 13:05	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:08	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 02:28	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 20:52	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 11:07	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 17:39	Marie D John	22.89
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:07	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 05:19	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:36	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 09:04	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110760020A	03/20/2011 04:24	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 18:52	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 19:24	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 10:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110760020A	03/18/2011 08:00	Olivia Arosemena	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:35	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228976
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10302 SDG#: DE102-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 18:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 18:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 21:58	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 15:44	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:34	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-112-SA5A-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	0.72	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.95

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	188	U	188	376		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.82	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	1.0	J	0.75	1.9		1

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Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Phenanthrene	85-01-8	1.1	J	0.75	1.9		1
10138	Pyrene	129-00-0	1.1	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
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10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	730	J	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	1.5		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	3.1		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are ND and 1.5 mg/kg respectively. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-112-SA5A-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,500		5.51	21.9		1
07914	Boron	7440-42-8	4.47	J	0.974	5.47		1
01650	Calcium	7440-70-2	3,730		6.71	21.9		1
01654	Iron	7439-89-6	19,600		5.16	21.9		1
01656	Lithium	7439-93-2	22.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,010		2.78	10.9		1
06958	Manganese	7439-96-5	296		0.0854	0.547		1
10145	Phosphorus	7723-14-0	467		0.613	10.9		1
01662	Potassium	7440-09-7	3,230		19.7	54.7		1
01667	Sodium	7440-23-5	150		40.8	109		1
07968	Strontium	7440-24-6	17.9		0.0679	0.547		1
06969	Tin	7440-31-5	2.63	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,300		0.416	1.09		1
10146	Zirconium	7440-67-7	0.919	U	0.919	5.47		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0670	U	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.88		0.0893	0.446		2
06126	Barium	7440-39-3	87.3		0.121	0.446		2
06127	Beryllium	7440-41-7	0.500		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0949	J	0.0446	0.112		2
06131	Chromium	7440-47-3	14.5		0.134	0.446		2
06132	Cobalt	7440-48-4	5.63		0.0223	0.112		2
06133	Copper	7440-50-8	9.73		0.0737	0.446		2
06135	Lead	7439-92-1	4.25		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.419		0.0558	0.112		2
06139	Nickel	7440-02-0	9.27		0.112	0.446		2
06141	Selenium	7782-49-2	0.119	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0247	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.253		0.0335	0.112		2
06148	Vanadium	7440-62-2	36.0		0.0246	0.112		2
06149	Zinc	7440-66-6	209		1.56	8.37		5
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0162	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228977
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.3		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	404		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-112-SA5A-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	15:47	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	13:24	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:11	Christopher D Meeks	n.a.

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Laboratory Sample Analysis Record

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07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:11	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 02:44	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 21:16	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 11:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 18:16	Marie D John	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:10	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 06:02	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 09:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/24/2011 22:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 19:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 19:37	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 02:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1

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Suite 210
Chantilly VA 20151

10303 SDG#: DE102-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:39	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/22/2011 21:39	David K Beck	5
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 18:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 18:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201A	03/17/2011 22:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 15:57	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:35	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201A	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101A	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401A	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-114-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.1	U	8.1	9.7		0.94
06192	Benzene	71-43-2	0.12	U	0.12	4.9		0.94
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.9		0.94
06192	Bromochloromethane	74-97-5	0.40	U	0.40	4.9		0.94
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.9		0.94
06192	Bromoform	75-25-2	0.49	U	0.49	4.9		0.94
06192	Bromomethane	74-83-9	0.30	U	0.30	4.9		0.94
06192	2-Butanone	78-93-3	1.5	U	1.5	9.7		0.94
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	4.9		0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.9		0.94
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.9		0.94
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.9		0.94
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.9		0.94
06192	Chloroethane	75-00-3	0.16	U	0.16	4.9		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	4.9		0.94
06192	Chloroform	67-66-3	0.15	U	0.15	4.9		0.94
06192	Chloromethane	74-87-3	0.40	U	0.40	4.9		0.94
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.9		0.94
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.9		0.94
06192	Chlorotrifluoroethene	79-38-9	0.61	U	0.61	6.1		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.85	U	0.85	4.9		0.94
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.9		0.94
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	4.9		0.94
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.9		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.9		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	4.9		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.9		0.94
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	4.9		0.94
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.9		0.94
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.9		0.94
06192	1,1-Dichloroethene	75-35-4	0.48	U	0.48	4.9		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.9		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	4.9		0.94
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	4.9		0.94
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.9		0.94
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	4.9		0.94
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.9		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.9		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	4.9		0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.9		0.94
06192	Freon 113	76-13-1	0.13	U	0.13	4.9		0.94
06192	Freon 133a	75-88-7	0.61	U	0.61	6.1		0.94
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.9		0.94
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.7		0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.9		0.94
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.9		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	4.9		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.48	U	0.48	9.7		0.94
06192	Methylene Chloride	75-09-2	1.0	J	0.29	4.9		0.94
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	4.9		0.94

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Sample Description: SL-114-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.9		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.9		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.9		0.94
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.9		0.94
06192	Toluene	108-88-3	0.1	U	0.1	4.9		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.9		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.9		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.9		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.9		0.94
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.9		0.94
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.9		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.40	U	0.40	4.9		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.49	U	0.49	4.9		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.9		0.94
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.9		0.94
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	4.9		0.94
06192	o-Xylene	95-47-6	0.21	U	0.21	4.9		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		22.24
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	216	U	216	432		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	220	U	220	650		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,300		1
04688	Benzoic acid	65-85-0	220	U	220	650		1
04688	Benzyl alcohol	100-51-6	220	U	220	650		1
04688	4-Bromophenyl-phenylether	101-55-3	22	U	22	220		1
04688	Di-n-butylphthalate	84-74-2	22	U	22	220		1
04688	Carbazole	86-74-8	22	U	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	43	U	43	220		1
04688	4-Chloroaniline	106-47-8	86	U	86	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	22	U	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	22	U	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	22	U	22	220		1
04688	2-Chloronaphthalene	91-58-7	22	U	22	220		1
04688	2-Chlorophenol	95-57-8	22	U	22	220		1
04688	4-Chlorophenyl-phenylether	7005-72-3	43	U	43	220		1
04688	Dibenzofuran	132-64-9	22	U	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	22	U	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	22	U	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	22	U	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	430		1
04688	2,4-Dichlorophenol	120-83-2	22	U	22	220		1
04688	2,4-Dimethylphenol	105-67-9	43	U	43	220		1
04688	3,5-Dimethylphenol	108-68-9	43	U	43	220		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	220	U	220	650		1
04688	2,4-Dinitrophenol	51-28-5	430	U	430	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	43	U	43	220		1
04688	2,6-Dinitrotoluene	606-20-2	22	U	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	22	U	22	220		1
04688	Hexachlorobenzene	118-74-1	22	U	22	220		1
04688	Hexachlorobutadiene	87-68-3	86	U	86	220		1
04688	Hexachlorocyclopentadiene	77-47-4	220	U	220	650		1
04688	Hexachloroethane	67-72-1	22	U	22	220		1
04688	Isophorone	78-59-1	22	U	22	220		1
04688	2-Methylphenol	95-48-7	43	U	43	220		1
04688	4-Methylphenol	106-44-5	43	U	43	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	22	U	22	220		1
04688	3-Nitroaniline	99-09-2	43	U	43	220		1
04688	4-Nitroaniline	100-01-6	86	U	86	220		1
04688	Nitrobenzene	98-95-3	22	U	22	220		1
04688	2-Nitrophenol	88-75-5	22	U	22	220		1
04688	4-Nitrophenol	100-02-7	220	U	220	650		1
04688	N-Nitroso-di-n-propylamine	621-64-7	22	U	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	22	U	22	220		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	220	U	220	650		1
04688	Phenol	108-95-2	22	U	22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	22	U	22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	43	U	43	220		1
04688	2,4,6-Trichlorophenol	88-06-2	43	U	43	220		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.86	U	0.86	2.2		1
10138	Acenaphthylene	208-96-8	0.43	U	0.43	2.2		1
10138	Anthracene	120-12-7	0.43	U	0.43	2.2		1
10138	Benzo(a)anthracene	56-55-3	0.86	U	0.86	2.2		1
10138	Benzo(a)pyrene	50-32-8	0.86	U	0.86	2.2		1
10138	Benzo(b)fluoranthene	205-99-2	0.86	U	0.86	2.2		1
10138	Benzo(g,h,i)perylene	191-24-2	0.86	U	0.86	2.2		1
10138	Benzo(k)fluoranthene	207-08-9	0.86	U	0.86	2.2		1
10138	Butylbenzylphthalate	85-68-7	7.8	U	7.8	23		1
10138	Chrysene	218-01-9	0.43	U	0.43	2.2		1
10138	Dibenz(a,h)anthracene	53-70-3	0.86	U	0.86	2.2		1
10138	Diethylphthalate	84-66-2	7.8	U	7.8	23		1
10138	Dimethylphthalate	131-11-3	7.8	U	7.8	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.8	U	7.8	23		1
10138	Fluoranthene	206-44-0	0.86	U	0.86	2.2		1
10138	Fluorene	86-73-7	0.86	U	0.86	2.2		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.86	U	0.86	2.2		1
10138	1-Methylnaphthalene	90-12-0	0.86	U	0.86	2.2		1
10138	2-Methylnaphthalene	91-57-6	0.86	U	0.86	2.2		1
10138	Naphthalene	91-20-3	0.86	U	0.86	2.2		1
10138	N-Nitrosodimethylamine	62-75-9	0.86	U	0.86	2.2		1
10138	Di-n-octylphthalate	117-84-0	7.8	U	7.8	23		1
10138	Phenanthrene	85-01-8	0.86	U	0.86	2.2		1
10138	Pyrene	129-00-0	0.86	U	0.86	2.2		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		23.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	76	U	76	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	51	U	51	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	100	U	100	300	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	100	U	100	300	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	51	U	51	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	51	U	51	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	51	U	51	150	10000000	1
10132	HMX	2691-41-0	130	U	130	380	10000000	1
10132	Nitrobenzene	98-95-3	51	U	51	150	10000000	1
10132	Nitroglycerin	55-63-0	1,000	U	1,000	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	100	U	100	150	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	150	10000000	1
10132	4-Nitrotoluene	99-99-0	100	U	100	150	10000000	1
10132	PETN	78-11-5	1,000	U	1,000	3,000	10000000	1
10132	RDX	121-82-4	63	U	63	150	10000000	1
10132	Tetryl	479-45-8	78	U	78	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	51	U	51	150	10000000	1

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Sample Description: SL-114-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	51	U	51	150	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	780	U	780	1,900		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.3		1
10225	PCB-1016	12674-11-2	0.43	U	0.43	2.2		1
10225	PCB-1221	11104-28-2	0.43	U	0.43	2.2		1
10225	PCB-1232	11141-16-5	0.43	U	0.43	2.2		1
10225	PCB-1242	53469-21-9	0.43	U	0.43	2.2		1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2		1
10225	PCB-1254	11097-69-1	0.43	U	0.43	2.2		1
10225	PCB-1260	11096-82-5	0.51	U	0.51	2.2		1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2		1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.52	U	0.52	1.6		1
10199	EFH (C15-C20)	n.a.	2.0		0.52	1.6		1
10199	EFH (C21-C30)	n.a.	7.3		0.52	1.6		1
10199	EFH (C30 - C40)	n.a.	29		0.52	1.6		1
10199	EFH (C8-C11)	n.a.	0.52	U	0.52	1.6		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C15-C20, C21-C30 and C30-C40 results for the original extraction are ND, ND and 1.4 mg/kg respectively. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	130	U	130	650		1
10501	Isopropanol	67-63-0	130	U	130	650		1
10501	Methanol	67-56-1	130	U	130	650		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.5	U	6.5	16		1
08283	Ethylene glycol	107-21-1	6.5	U	6.5	16		1
08283	Propylene glycol	57-55-6	6.5	U	6.5	16		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-114-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9	U	1.9	4.5		1
10318	o-Terphenyl	84-15-1	1.9	U	1.9	4.5		1
10318	p-Terphenyl	92-94-4	1.9	U	1.9	4.5		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	37,200		6.26	24.9		1
07914	Boron	7440-42-8	13.8		1.11	6.23		1
01650	Calcium	7440-70-2	35,900		7.64	24.9		1
01654	Iron	7439-89-6	34,200		29.3	125		5
01656	Lithium	7439-93-2	33.0		0.27	2.5		1
01657	Magnesium	7439-95-4	8,320		3.16	12.5		1
06958	Manganese	7439-96-5	454		0.0972	0.623		1
10145	Phosphorus	7723-14-0	246		0.697	12.5		1
01662	Potassium	7440-09-7	3,430		22.4	62.3		1
01667	Sodium	7440-23-5	284		46.5	125		1
07968	Strontium	7440-24-6	67.4		0.0772	0.623		1
06969	Tin	7440-31-5	3.11	J	1.25	12.5		1
06970	Titanium	7440-32-6	1,570		0.473	1.25		1
10146	Zirconium	7440-67-7	5.57	J	1.05	6.23		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.290		0.0755	0.252		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.31		0.101	0.503		2
06126	Barium	7440-39-3	152		0.136	0.503		2
06127	Beryllium	7440-41-7	1.14		0.0201	0.126		2
06128	Cadmium	7440-43-9	0.445		0.0503	0.126		2
06131	Chromium	7440-47-3	44.3		0.151	0.503		2
06132	Cobalt	7440-48-4	10.3		0.0252	0.126		2
06133	Copper	7440-50-8	17.7		0.0830	0.503		2
06135	Lead	7439-92-1	13.3		0.0131	0.252		2
06138	Molybdenum	7439-98-7	0.350		0.0629	0.126		2
06139	Nickel	7440-02-0	27.7		0.126	0.503		2
06141	Selenium	7782-49-2	0.162	J	0.0503	0.503		2
06142	Silver	7440-22-4	0.0781	J	0.0151	0.126		2
06145	Thallium	7440-28-0	0.419		0.0377	0.126		2
06148	Vanadium	7440-62-2	82.1		0.0277	0.126		2
06149	Zinc	7440-66-6	82.1		0.704	3.77		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0091	J	0.0036	0.125		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.6		1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		1.0	1.9		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.7	U	11.7	38.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.64		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	328		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	22.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	16:09	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	13:44	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:15	Christopher D Meeks	n.a.

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:15	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 01:21	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 16:41	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 09:01	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 18:52	Marie D John	23.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:14	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 06:44	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/16/2011 23:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 09:41	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 00:53	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 19:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 19:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 02:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 09:57	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228978
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:29	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 21:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 21:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 21:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 21:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 16:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 16:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/17/2011 22:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 16:09	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:37	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	180	7.1	8.5		0.82
06192	Benzene	71-43-2	22	0.11	4.2		0.82
06192	Bromobenzene	108-86-1	21	0.14	4.2		0.82
06192	Bromochloromethane	74-97-5	26	0.35	4.2		0.82
06192	Bromodichloromethane	75-27-4	20	0.08	4.2		0.82
06192	Bromoform	75-25-2	17	0.42	4.2		0.82
06192	Bromomethane	74-83-9	17	0.26	4.2		0.82
06192	2-Butanone	78-93-3	160	1.3	8.5		0.82
06192	n-Butylbenzene	104-51-8	23	0.13	4.2		0.82
06192	sec-Butylbenzene	135-98-8	23	0.06	4.2		0.82
06192	tert-Butylbenzene	98-06-6	21	0.17	4.2		0.82
06192	Carbon Tetrachloride	56-23-5	21	0.15	4.2		0.82
06192	Chlorobenzene	108-90-7	21	0.12	4.2		0.82
06192	Chloroethane	75-00-3	18	0.14	4.2		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.32	4.2		0.82
06192	Chloroform	67-66-3	22	0.13	4.2		0.82
06192	Chloromethane	74-87-3	19	0.35	4.2		0.82
06192	2-Chlorotoluene	95-49-8	21	0.15	4.2		0.82
06192	4-Chlorotoluene	106-43-4	21	0.15	4.2		0.82
06192	Chlorotrifluoroethene	79-38-9	18	0.52	5.2		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.74	4.2		0.82
06192	Dibromochloromethane	124-48-1	18	0.21	4.2		0.82
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.2		0.82
06192	Dibromomethane	74-95-3	21	0.25	4.2		0.82
06192	1,2-Dichlorobenzene	95-50-1	20	0.09	4.2		0.82
06192	1,3-Dichlorobenzene	541-73-1	20	0.13	4.2		0.82
06192	1,4-Dichlorobenzene	106-46-7	20	0.17	4.2		0.82
06192	Dichlorodifluoromethane	75-71-8	16	0.13	4.2		0.82
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.2		0.82
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.2		0.82
06192	1,1-Dichloroethene	75-35-4	26	0.41	4.2		0.82
06192	cis-1,2-Dichloroethene	156-59-2	22	0.20	4.2		0.82
06192	trans-1,2-Dichloroethene	156-60-5	23	0.13	4.2		0.82
06192	1,2-Dichloropropane	78-87-5	22	0.18	4.2		0.82
06192	1,3-Dichloropropane	142-28-9	21	0.08	4.2		0.82
06192	2,2-Dichloropropane	594-20-7	20	0.18	4.2		0.82
06192	1,1-Dichloropropene	563-58-6	23	0.14	4.2		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.17	4.2		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.18	4.2		0.82
06192	Ethylbenzene	100-41-4	21	0.06	4.2		0.82
06192	Freon 113	76-13-1	28	0.12	4.2		0.82
06192	Freon 133a	75-88-7	24	0.52	5.2		0.81
06192	Hexachlorobutadiene	87-68-3	19	0.15	4.2		0.82
06192	2-Hexanone	591-78-6	100	1.7	8.5		0.82
06192	Isopropylbenzene	98-82-8	21	0.06	4.2		0.82
06192	p-Isopropyltoluene	99-87-6	23	0.12	4.2		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.22	4.2		0.82
06192	4-Methyl-2-pentanone	108-10-1	100	0.41	8.5		0.82
06192	Methylene Chloride	75-09-2	25	0.25	4.2		0.82
06192	n-Propylbenzene	103-65-1	24	0.07	4.2		0.82

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20	0.11	4.2		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	19	0.12	4.2		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	21	0.24	4.2		0.82
06192	Tetrachloroethene	127-18-4	21	0.21	4.2		0.82
06192	Toluene	108-88-3	22	0.08	4.2		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	17	0.15	4.2		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	17	0.19	4.2		0.82
06192	1,1,1-Trichloroethane	71-55-6	21	0.21	4.2		0.82
06192	1,1,2-Trichloroethane	79-00-5	21	0.28	4.2		0.82
06192	Trichloroethene	79-01-6	22	0.16	4.2		0.82
06192	Trichlorofluoromethane	75-69-4	22	0.31	4.2		0.82
06192	1,2,3-Trichloropropane	96-18-4	21	0.35	4.2		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	22	0.42	4.2		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	22	0.11	4.2		0.82
06192	Vinyl Chloride	75-01-4	20	0.21	4.2		0.82
06192	m+p-Xylene	179601-23-1	42	0.18	4.2		0.82
06192	o-Xylene	95-47-6	20	0.18	4.2		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130	5.5	16		21.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	734	216	432		10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800	22	220		1
04688	Acenaphthylene	208-96-8	1,900	22	220		1
04688	Aniline	62-53-3	1,300	220	650		1
04688	Anthracene	120-12-7	1,900	22	220		1
04688	Benzidine	92-87-5	4,800	1,500	4,300		1
04688	Benzo(a)anthracene	56-55-3	1,900	22	220		1
04688	Benzo(a)pyrene	50-32-8	2,100	22	220		1
04688	Benzo(b)fluoranthene	205-99-2	2,000	22	220		1
04688	Benzo(g,h,i)perylene	191-24-2	2,200	22	220		1
04688	Benzo(k)fluoranthene	207-08-9	2,300	22	220		1
04688	Benzoic acid	65-85-0	990	220	650		1
04688	Benzyl alcohol	100-51-6	1,600	220	650		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	22	220		1
04688	Butylbenzylphthalate	85-68-7	1,900	22	220		1
04688	Di-n-butylphthalate	84-74-2	1,800	22	220		1
04688	Carbazole	86-74-8	1,800	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	43	220		1
04688	4-Chloroaniline	106-47-8	1,500	86	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	22	220		1
04688	2-Chloronaphthalene	91-58-7	1,500	22	220		1
04688	2-Chlorophenol	95-57-8	1,800	22	220		1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	43	220		1
04688	Chrysene	218-01-9	2,000	22	220		1
04688	Dibenz(a,h)anthracene	53-70-3	2,100	22	220		1
04688	Dibenzofuran	132-64-9	1,900	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	130	430		1
04688	2,4-Dichlorophenol	120-83-2	1,900	22	220		1
04688	Diethylphthalate	84-66-2	1,800	22	220		1
04688	2,4-Dimethylphenol	105-67-9	1,700	43	220		1
04688	3,5-Dimethylphenol	108-68-9	1,900	43	220		1
04688	Dimethylphthalate	131-11-3	1,800	22	220		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	220	650		1
04688	2,4-Dinitrophenol	51-28-5	2,600	430	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	43	220		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	22	220		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	22	430		1
04688	Fluoranthene	206-44-0	1,800	22	220		1
04688	Fluorene	86-73-7	1,800	22	220		1
04688	Hexachlorobenzene	118-74-1	1,900	22	220		1
04688	Hexachlorobutadiene	87-68-3	1,800	86	220		1
04688	Hexachlorocyclopentadiene	77-47-4	3,800	220	650		1
04688	Hexachloroethane	67-72-1	1,500	22	220		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,100	22	220		1
04688	Isophorone	78-59-1	1,600	22	220		1
04688	1-Methylnaphthalene	90-12-0	1,900	22	220		1
04688	2-Methylnaphthalene	91-57-6	1,700	22	220		1
04688	2-Methylphenol	95-48-7	1,700	43	220		1
04688	4-Methylphenol	106-44-5	1,700	43	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	22	220		1
04688	2-Nitroaniline	88-74-4	1,800	22	220		1
04688	3-Nitroaniline	99-09-2	1,800	43	220		1
04688	4-Nitroaniline	100-01-6	1,400	86	220		1
04688	Nitrobenzene	98-95-3	1,600	22	220		1
04688	2-Nitrophenol	88-75-5	1,800	22	220		1
04688	4-Nitrophenol	100-02-7	1,400	220	650		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	43	220		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	22	220		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,100	22	220		1
04688	Pentachlorophenol	87-86-5	1,600	220	650		1
04688	Phenanthrene	85-01-8	1,900	22	220		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	1,600		22	220		1
04688	Pyrene	129-00-0	2,000		22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		43	220		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		43	220		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	39		0.86	2.2		1
10138	Acenaphthylene	208-96-8	39		0.43	2.2		1
10138	Anthracene	120-12-7	41		0.43	2.2		1
10138	Benzo(a)anthracene	56-55-3	43		0.86	2.2		1
10138	Benzo(a)pyrene	50-32-8	46		0.86	2.2		1
10138	Benzo(b)fluoranthene	205-99-2	47		0.86	2.2		1
10138	Benzo(g,h,i)perylene	191-24-2	51		0.86	2.2		1
10138	Benzo(k)fluoranthene	207-08-9	48		0.86	2.2		1
10138	Butylbenzylphthalate	85-68-7	46		7.8	23		1
10138	Di-n-butylphthalate	84-74-2	47		7.8	23		1
10138	Chrysene	218-01-9	43		0.43	2.2		1
10138	Dibenz(a,h)anthracene	53-70-3	53		0.86	2.2		1
10138	Diethylphthalate	84-66-2	45		7.8	23		1
10138	Dimethylphthalate	131-11-3	44		7.8	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49		7.8	23		1
10138	Fluoranthene	206-44-0	45		0.86	2.2		1
10138	Fluorene	86-73-7	42		0.86	2.2		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	52		0.86	2.2		1
10138	1-Methylnaphthalene	90-12-0	39		0.86	2.2		1
10138	2-Methylnaphthalene	91-57-6	35		0.86	2.2		1
10138	Naphthalene	91-20-3	38		0.86	2.2		1
10138	N-Nitrosodimethylamine	62-75-9	40		0.86	2.2		1
10138	Di-n-octylphthalate	117-84-0	55		7.8	23		1
10138	Phenanthrene	85-01-8	41		0.86	2.2		1
10138	Pyrene	129-00-0	39		0.86	2.2		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 11 ug/kg
di-n-octylphthalate 11 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.5		0.2	1		19.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,700		76	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		51	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	260	U	260	780	10000000	1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	260	U	260	780	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,600		51	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,500		51	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,600		51	150	10000000	1
10132	HMX	2691-41-0	2,100		130	380	10000000	1
10132	Nitrobenzene	98-95-3	2,500		51	150	10000000	1
10132	Nitroglycerin	55-63-0	59,000		1,000	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	2,500		100	150	10000000	1
10132	3-Nitrotoluene	99-08-1	2,500		130	150	10000000	1
10132	4-Nitrotoluene	99-99-0	2,500		100	150	10000000	1
10132	PETN	78-11-5	64,000		1,000	3,000	10000000	1
10132	RDX	121-82-4	2,300		63	150	10000000	1
10132	Tetryl	479-45-8	2,100		78	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,500		51	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,600		51	150	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	6,400		780	1,900		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.3		1
10225	PCB-1016	12674-11-2	19		0.43	2.2		1
10225	PCB-1221	11104-28-2	0.43	U	0.43	2.2		1
10225	PCB-1232	11141-16-5	0.43	U	0.43	2.2		1
10225	PCB-1242	53469-21-9	0.43	U	0.43	2.2		1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2		1
10225	PCB-1254	11097-69-1	0.43	U	0.43	2.2		1
10225	PCB-1260	11096-82-5	20		0.51	2.2		1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2		1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	1.1	J	0.52	1.6		1
10199	EFH (C15-C20)	n.a.	2.2		0.52	1.6		1
10199	EFH (C21-C30)	n.a.	6.5		0.52	1.6		1
10199	EFH (C30 - C40)	n.a.	13		0.52	1.6		1
10199	EFH (C8-C11)	n.a.	0.83	J	0.52	1.6		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. Similar results were detected in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,500		130	650		1
10501	Isopropanol	67-63-0	2,800		130	650		1
10501	Methanol	67-56-1	2,600		130	650		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	150		6.5	16		1
08283	Ethylene glycol	107-21-1	180		6.5	16		1
08283	Propylene glycol	57-55-6	190		6.5	16		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	J	1.6	4.5		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.5		1
10318	p-Terphenyl	92-94-4	1.5	J	1.4	4.5		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	40,100		6.33	25.2		1
07914	Boron	7440-42-8	263		1.12	6.29		1
01650	Calcium	7440-70-2	67,800		7.71	25.2		1
01654	Iron	7439-89-6	33,300		5.92	25.2		1
01656	Lithium	7439-93-2	163		0.28	2.5		1
01657	Magnesium	7439-95-4	8,200		3.19	12.6		1
06958	Manganese	7439-96-5	349		0.0981	0.629		1
10145	Phosphorus	7723-14-0	343		0.704	12.6		1
01662	Potassium	7440-09-7	4,910		22.6	62.9		1
01667	Sodium	7440-23-5	1,540		46.9	126		1
07968	Strontium	7440-24-6	195		0.0780	0.629		1
06969	Tin	7440-31-5	425		1.26	12.6		1
06970	Titanium	7440-32-6	1,770		0.478	1.26		1
10146	Zirconium	7440-67-7	126		1.06	6.29		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.07		0.0777	0.259		2

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.0	0.104	0.518		2
06126	Barium	7440-39-3	169	0.140	0.518		2
06127	Beryllium	7440-41-7	2.20	0.0207	0.130		2
06128	Cadmium	7440-43-9	2.10	0.0518	0.130		2
06131	Chromium	7440-47-3	56.8	0.155	0.518		2
06132	Cobalt	7440-48-4	78.5	0.0259	0.130		2
06133	Copper	7440-50-8	30.0	0.0855	0.518		2
06135	Lead	7439-92-1	19.6	0.0135	0.259		2
06138	Molybdenum	7439-98-7	15.9	0.0648	0.130		2
06139	Nickel	7440-02-0	48.4	0.130	0.518		2
06141	Selenium	7782-49-2	3.04	0.0518	0.518		2
06142	Silver	7440-22-4	15.2	0.0155	0.130		2
06145	Thallium	7440-28-0	1.08	0.0389	0.130		2
06148	Vanadium	7440-62-2	97.5	0.0285	0.130		2
06149	Zinc	7440-66-6	90.6	0.725	3.89		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.233	0.0036	0.125		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	16.1	1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.2	1.0	1.9		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	698	11.7	38.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	46.3	1.3	6.5		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	7.4	0.23	0.65		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 16:32	Chelsea B Eastep	0.82
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 17:17	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 14:04	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:18	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:19	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 01:37	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 17:06	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 09:32	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 19:28	Marie D John	19.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:18	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 07:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 10:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 01:19	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 19:36	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 17:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 03:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:43	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 17:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 17:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/17/2011 23:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 16:28	Carrie E Miller	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:38	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228979
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Sample Description: SL-114-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	180	8.7	10		1
06192	Benzene	71-43-2	28	0.13	5.2		1
06192	Bromobenzene	108-86-1	28	0.17	5.2		1
06192	Bromochloromethane	74-97-5	31	0.43	5.2		1
06192	Bromodichloromethane	75-27-4	25	0.10	5.2		1
06192	Bromoform	75-25-2	20	0.52	5.2		1
06192	Bromomethane	74-83-9	24	0.32	5.2		1
06192	2-Butanone	78-93-3	170	1.6	10		1
06192	n-Butylbenzene	104-51-8	31	0.16	5.2		1
06192	sec-Butylbenzene	135-98-8	31	0.08	5.2		1
06192	tert-Butylbenzene	98-06-6	28	0.21	5.2		1
06192	Carbon Tetrachloride	56-23-5	27	0.18	5.2		1
06192	Chlorobenzene	108-90-7	27	0.14	5.2		1
06192	Chloroethane	75-00-3	24	0.17	5.2		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	21	0.39	5.2		1
06192	Chloroform	67-66-3	28	0.16	5.2		1
06192	Chloromethane	74-87-3	25	0.43	5.2		1
06192	2-Chlorotoluene	95-49-8	29	0.18	5.2		1
06192	4-Chlorotoluene	106-43-4	28	0.18	5.2		1
06192	Chlorotrifluoroethene	79-38-9	21	0.57	5.7		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	19	0.91	5.2		1
06192	Dibromochloromethane	124-48-1	22	0.26	5.2		1
06192	1,2-Dibromoethane	106-93-4	24	0.22	5.2		1
06192	Dibromomethane	74-95-3	25	0.31	5.2		1
06192	1,2-Dichlorobenzene	95-50-1	25	0.12	5.2		1
06192	1,3-Dichlorobenzene	541-73-1	27	0.16	5.2		1
06192	1,4-Dichlorobenzene	106-46-7	26	0.21	5.2		1
06192	Dichlorodifluoromethane	75-71-8	21	0.16	5.2		1
06192	1,1-Dichloroethane	75-34-3	28	0.13	5.2		1
06192	1,2-Dichloroethane	107-06-2	26	0.19	5.2		1
06192	1,1-Dichloroethene	75-35-4	32	0.51	5.2		1
06192	cis-1,2-Dichloroethene	156-59-2	28	0.25	5.2		1
06192	trans-1,2-Dichloroethene	156-60-5	29	0.16	5.2		1
06192	1,2-Dichloropropane	78-87-5	27	0.22	5.2		1
06192	1,3-Dichloropropane	142-28-9	25	0.10	5.2		1
06192	2,2-Dichloropropane	594-20-7	26	0.22	5.2		1
06192	1,1-Dichloropropene	563-58-6	29	0.17	5.2		1
06192	cis-1,3-Dichloropropene	10061-01-5	24	0.21	5.2		1
06192	trans-1,3-Dichloropropene	10061-02-6	23	0.22	5.2		1
06192	Ethylbenzene	100-41-4	28	0.08	5.2		1
06192	Freon 113	76-13-1	35	0.14	5.2		1
06192	Freon 133a	75-88-7	27	0.57	5.7		0.89
06192	Hexachlorobutadiene	87-68-3	25	0.18	5.2		1
06192	2-Hexanone	591-78-6	110	2.1	10		1
06192	Isopropylbenzene	98-82-8	27	0.08	5.2		1
06192	p-Isopropyltoluene	99-87-6	30	0.14	5.2		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	24	0.27	5.2		1
06192	4-Methyl-2-pentanone	108-10-1	110	0.51	10		1
06192	Methylene Chloride	75-09-2	30	0.31	5.2		1
06192	n-Propylbenzene	103-65-1	32	0.09	5.2		1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	26	0.13	5.2		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	24	0.14	5.2		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	25	0.30	5.2		1
06192	Tetrachloroethene	127-18-4	27	0.26	5.2		1
06192	Toluene	108-88-3	28	0.10	5.2		1
06192	1,2,3-Trichlorobenzene	87-61-6	21	0.18	5.2		1
06192	1,2,4-Trichlorobenzene	120-82-1	22	0.23	5.2		1
06192	1,1,1-Trichloroethane	71-55-6	27	0.26	5.2		1
06192	1,1,2-Trichloroethane	79-00-5	25	0.35	5.2		1
06192	Trichloroethene	79-01-6	27	0.19	5.2		1
06192	Trichlorofluoromethane	75-69-4	29	0.38	5.2		1
06192	1,2,3-Trichloropropane	96-18-4	25	0.43	5.2		1
06192	1,2,4-Trimethylbenzene	95-63-6	29	0.52	5.2		1
06192	1,3,5-Trimethylbenzene	108-67-8	29	0.13	5.2		1
06192	Vinyl Chloride	75-01-4	26	0.26	5.2		1
06192	m+p-Xylene	179601-23-1	55	0.22	5.2		1
06192	o-Xylene	95-47-6	26	0.22	5.2		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	150	6.0	18		23.06
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	722	216	432		10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,900	22	220		1
04688	Acenaphthylene	208-96-8	2,000	22	220		1
04688	Aniline	62-53-3	1,400	220	650		1
04688	Anthracene	120-12-7	1,900	22	220		1
04688	Benzidine	92-87-5	4,400	1,500	4,300		1
04688	Benzo(a)anthracene	56-55-3	1,900	22	220		1
04688	Benzo(a)pyrene	50-32-8	2,200	22	220		1
04688	Benzo(b)fluoranthene	205-99-2	2,300	22	220		1
04688	Benzo(g,h,i)perylene	191-24-2	2,200	22	220		1
04688	Benzo(k)fluoranthene	207-08-9	2,100	22	220		1
04688	Benzoic acid	65-85-0	950	220	650		1
04688	Benzyl alcohol	100-51-6	1,700	220	650		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	22	220		1
04688	Butylbenzylphthalate	85-68-7	2,000	22	220		1
04688	Di-n-butylphthalate	84-74-2	1,800	22	220		1
04688	Carbazole	86-74-8	1,900	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	43	220		1
04688	4-Chloroaniline	106-47-8	1,600	86	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	22	220		1
04688	2-Chloronaphthalene	91-58-7	1,500	22	220		1
04688	2-Chlorophenol	95-57-8	1,800	22	220		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	43	220		1
04688	Chrysene	218-01-9	2,000	22	220		1
04688	Dibenz(a,h)anthracene	53-70-3	2,200	22	220		1
04688	Dibenzofuran	132-64-9	1,900	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	1,800	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	1,800	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	1,800	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	130	430		1
04688	2,4-Dichlorophenol	120-83-2	1,900	22	220		1
04688	Diethylphthalate	84-66-2	1,800	22	220		1
04688	2,4-Dimethylphenol	105-67-9	1,700	43	220		1
04688	3,5-Dimethylphenol	108-68-9	1,900	43	220		1
04688	Dimethylphthalate	131-11-3	1,900	22	220		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700	220	650		1
04688	2,4-Dinitrophenol	51-28-5	2,600	430	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	43	220		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	22	220		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	22	430		1
04688	Fluoranthene	206-44-0	1,900	22	220		1
04688	Fluorene	86-73-7	1,900	22	220		1
04688	Hexachlorobenzene	118-74-1	2,000	22	220		1
04688	Hexachlorobutadiene	87-68-3	1,900	86	220		1
04688	Hexachlorocyclopentadiene	77-47-4	4,100	220	650		1
04688	Hexachloroethane	67-72-1	1,600	22	220		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,200	22	220		1
04688	Isophorone	78-59-1	1,600	22	220		1
04688	1-Methylnaphthalene	90-12-0	1,900	22	220		1
04688	2-Methylnaphthalene	91-57-6	1,800	22	220		1
04688	2-Methylphenol	95-48-7	1,700	43	220		1
04688	4-Methylphenol	106-44-5	1,800	43	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	22	220		1
04688	2-Nitroaniline	88-74-4	1,800	22	220		1
04688	3-Nitroaniline	99-09-2	1,800	43	220		1
04688	4-Nitroaniline	100-01-6	1,500	86	220		1
04688	Nitrobenzene	98-95-3	1,600	22	220		1
04688	2-Nitrophenol	88-75-5	1,800	22	220		1
04688	4-Nitrophenol	100-02-7	1,400	220	650		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	43	220		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	22	220		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,200	22	220		1
04688	Pentachlorophenol	87-86-5	1,700	220	650		1
04688	Phenanthrene	85-01-8	1,900	22	220		1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	1,700		22	220		1
04688	Pyrene	129-00-0	2,100		22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		43	220		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		43	220		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	37		0.86	2.2		1
10138	Acenaphthylene	208-96-8	37		0.43	2.2		1
10138	Anthracene	120-12-7	39		0.43	2.2		1
10138	Benzo(a)anthracene	56-55-3	42		0.86	2.2		1
10138	Benzo(a)pyrene	50-32-8	44		0.86	2.2		1
10138	Benzo(b)fluoranthene	205-99-2	45		0.86	2.2		1
10138	Benzo(g,h,i)perylene	191-24-2	50		0.86	2.2		1
10138	Benzo(k)fluoranthene	207-08-9	47		0.86	2.2		1
10138	Butylbenzylphthalate	85-68-7	43		7.8	23		1
10138	Di-n-butylphthalate	84-74-2	46		7.8	23		1
10138	Chrysene	218-01-9	42		0.43	2.2		1
10138	Dibenz(a,h)anthracene	53-70-3	52		0.86	2.2		1
10138	Diethylphthalate	84-66-2	43		7.8	23		1
10138	Dimethylphthalate	131-11-3	43		7.8	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48		7.8	23		1
10138	Fluoranthene	206-44-0	44		0.86	2.2		1
10138	Fluorene	86-73-7	40		0.86	2.2		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	52		0.86	2.2		1
10138	1-Methylnaphthalene	90-12-0	37		0.86	2.2		1
10138	2-Methylnaphthalene	91-57-6	34		0.86	2.2		1
10138	Naphthalene	91-20-3	36		0.86	2.2		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.86	2.2		1
10138	Di-n-octylphthalate	117-84-0	55		7.8	23		1
10138	Phenanthrene	85-01-8	39		0.86	2.2		1
10138	Pyrene	129-00-0	37		0.86	2.2		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-butylphthalate 11 ug/kg
di-n-octylphthalate 11 ug/kg
These blank values were not subtracted from the analytical results.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.7		0.2	1.2		22.6
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000		78	160	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,900		52	160	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	260	U	260	780	10000000	1

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Sample Description: SL-114-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	260	U	260	780	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,800		52	160	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,800		52	160	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	3,000		52	160	10000000	1
10132	HMX	2691-41-0	2,500		130	390	10000000	1
10132	Nitrobenzene	98-95-3	2,700		52	160	10000000	1
10132	Nitroglycerin	55-63-0	64,000		1,000	3,100	10000000	1
10132	2-Nitrotoluene	88-72-2	2,800		100	160	10000000	1
10132	3-Nitrotoluene	99-08-1	2,800		130	160	10000000	1
10132	4-Nitrotoluene	99-99-0	2,700		100	160	10000000	1
10132	PETN	78-11-5	72,000		1,000	3,100	10000000	1
10132	RDX	121-82-4	2,300		65	160	10000000	1
10132	Tetryl	479-45-8	2,400		79	160	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,800		52	160	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,900		52	160	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	6,200		780	1,900		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.3		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.3		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.3		1
10225	PCB-1016	12674-11-2	20		0.43	2.2		1
10225	PCB-1221	11104-28-2	0.43	U	0.43	2.2		1
10225	PCB-1232	11141-16-5	0.43	U	0.43	2.2		1
10225	PCB-1242	53469-21-9	0.43	U	0.43	2.2		1
10225	PCB-1248	12672-29-6	0.43	U	0.43	2.2		1
10225	PCB-1254	11097-69-1	0.43	U	0.43	2.2		1
10225	PCB-1260	11096-82-5	23		0.51	2.2		1
10225	PCB-1262	37324-23-5	0.43	U	0.43	2.2		1
10225	PCB-1268	11100-14-4	0.43	U	0.43	2.2		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the

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Sample Description: SL-114-SA5A-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
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10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.2	J	0.52	1.6		1
10199	EFH (C15-C20)	n.a.	2.3		0.52	1.6		1
10199	EFH (C21-C30)	n.a.	6.3		0.52	1.6		1
10199	EFH (C30 - C40)	n.a.	12		0.52	1.6		1
10199	EFH (C8-C11)	n.a.	0.88	J	0.52	1.6		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. Similar results were detected in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,500		130	650		1
10501	Isopropanol	67-63-0	2,700		130	650		1
10501	Methanol	67-56-1	2,600		130	650		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	190		6.5	16		1
08283	Ethylene glycol	107-21-1	190		6.5	16		1
08283	Propylene glycol	57-55-6	190		6.5	16		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	J	1.6	4.5		1
10318	o-Terphenyl	84-15-1	1.9	J	1.8	4.5		1
10318	p-Terphenyl	92-94-4	1.6	J	1.6	4.5		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,200		6.52	25.9		1
07914	Boron	7440-42-8	270		1.15	6.48		1
01650	Calcium	7440-70-2	76,700		39.7	130		5
01654	Iron	7439-89-6	30,800		6.10	25.9		1
01656	Lithium	7439-93-2	167		0.28	2.6		1
01657	Magnesium	7439-95-4	7,820		3.29	13.0		1
06958	Manganese	7439-96-5	369		0.101	0.648		1
10145	Phosphorus	7723-14-0	361		0.725	13.0		1
01662	Potassium	7440-09-7	4,860		23.3	64.8		1
01667	Sodium	7440-23-5	1,560		48.3	130		1
07968	Strontium	7440-24-6	188		0.0803	0.648		1
06969	Tin	7440-31-5	439		1.30	13.0		1
06970	Titanium	7440-32-6	1,750		0.492	1.30		1
10146	Zirconium	7440-67-7	130		1.09	6.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.970		0.0762	0.254		2

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
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10304 SDG#: DE102-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	12.0	0.102	0.508		2
06126	Barium	7440-39-3	166	0.137	0.508		2
06127	Beryllium	7440-41-7	2.15	0.0203	0.127		2
06128	Cadmium	7440-43-9	1.81	0.0508	0.127		2
06131	Chromium	7440-47-3	55.7	0.152	0.508		2
06132	Cobalt	7440-48-4	69.9	0.0254	0.127		2
06133	Copper	7440-50-8	29.0	0.0838	0.508		2
06135	Lead	7439-92-1	17.0	0.0132	0.254		2
06138	Molybdenum	7439-98-7	14.6	0.0635	0.127		2
06139	Nickel	7440-02-0	41.7	0.127	0.508		2
06141	Selenium	7782-49-2	2.85	0.0508	0.508		2
06142	Silver	7440-22-4	15.0	0.0152	0.127		2
06145	Thallium	7440-28-0	0.904	0.0381	0.127		2
06148	Vanadium	7440-62-2	94.3	0.0279	0.127		2
06149	Zinc	7440-66-6	90.8	0.711	3.81		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.218	0.0035	0.122		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 16:54	Chelsea B Eastep	1
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 17:39	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 14:24	Jason M Long	23.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:22	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 01:54	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 17:31	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 10:04	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 20:05	Marie D John	22.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:22	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 08:09	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:14	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 10:18	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 01:44	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 19:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 18:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 05:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/19/2011 10:10	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:47	John P Hook	1

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Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228980
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-114-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228981
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,900		6.26	24.9		1
07914	Boron	7440-42-8	13.2		1.11	6.23		1
01650	Calcium	7440-70-2	43,100		7.64	24.9		1
01654	Iron	7439-89-6	33,000		29.3	125		5
01656	Lithium	7439-93-2	32.5		0.27	2.5		1
01657	Magnesium	7439-95-4	8,050		3.16	12.5		1
06958	Manganese	7439-96-5	461		0.0972	0.623		1
10145	Phosphorus	7723-14-0	270		0.697	12.5		1
01662	Potassium	7440-09-7	3,490		22.4	62.3		1
01667	Sodium	7440-23-5	274		46.5	125		1
07968	Strontium	7440-24-6	67.9		0.0772	0.623		1
06969	Tin	7440-31-5	2.80	J	1.25	12.5		1
06970	Titanium	7440-32-6	1,540		0.473	1.25		1
10146	Zirconium	7440-67-7	6.60		1.05	6.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.201	J	0.0770	0.257		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.38		0.103	0.513		2
06126	Barium	7440-39-3	120		0.139	0.513		2
06127	Beryllium	7440-41-7	0.950		0.0205	0.128		2
06128	Cadmium	7440-43-9	0.271		0.0513	0.128		2
06131	Chromium	7440-47-3	36.4		0.154	0.513		2
06132	Cobalt	7440-48-4	9.88		0.0257	0.128		2
06133	Copper	7440-50-8	15.9		0.0846	0.513		2
06135	Lead	7439-92-1	11.3		0.0133	0.257		2
06138	Molybdenum	7439-98-7	0.310		0.0641	0.128		2
06139	Nickel	7440-02-0	23.4		0.128	0.513		2
06141	Selenium	7782-49-2	0.0855	J	0.0513	0.513		2
06142	Silver	7440-22-4	0.0610	J	0.0154	0.128		2
06145	Thallium	7440-28-0	0.324		0.0385	0.128		2
06148	Vanadium	7440-62-2	68.6		0.0282	0.128		2
06149	Zinc	7440-66-6	70.4		0.718	3.85		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0036	0.125		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.6		1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		1.0	1.9		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.7	U	11.7	38.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3		1

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Sample Description: SL-114-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228981
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.63		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	328		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	22.9		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	22.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 10:04	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 19:38	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:02	Choon Y Tian	2

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Analysis Report

Sample Description: SL-114-SA5A-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228981
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10304 SDG#: DE102-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 17:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 17:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/17/2011 23:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 16:59	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:39	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		0.88
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.88
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.88
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.88
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.88
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.88
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.88
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.88
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.88
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.88
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.88
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		0.88
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.88
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.88
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.88
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.88
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		0.88
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		0.88
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.88
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.88
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.88
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.88
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.88
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.88
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.88
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.88
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.88
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.88
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.88
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.88
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.88
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.88
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.88
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		0.88
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.88
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.88
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.88
06192	Methylene Chloride	75-09-2	0.70	J	0.27	4.4		0.88
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.88

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Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		0.88
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.88
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.88
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.88
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.88
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.88
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.88
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		21.82
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	351	J	211	421		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	630		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	630		1
04688	Benzyl alcohol	100-51-6	210	U	210	630		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Di-n-butylphthalate	84-74-2	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	84	U	84	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1

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Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	84	U	84	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	84	U	84	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	630		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	21	U	21	210		1
04688	Pentachlorophenol	87-86-5	210	U	210	630		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.84	U	0.84	2.1		1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1		1
10138	Anthracene	120-12-7	0.42	U	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.84	2.1		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.84	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.84	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	U	0.84	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	U	0.84	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.6	U	7.6	23		1
10138	Chrysene	218-01-9	1.5	J	0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.84	U	0.84	2.1		1
10138	Diethylphthalate	84-66-2	7.6	U	7.6	23		1
10138	Dimethylphthalate	131-11-3	7.6	U	7.6	23		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.6	U	7.6	23		1
10138	Fluoranthene	206-44-0	1.3	J	0.84	2.1		1

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Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.84	U	0.84	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	U	0.84	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.84	U	0.84	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.84	U	0.84	2.1		1
10138	Naphthalene	91-20-3	0.84	U	0.84	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.84	U	0.84	2.1		1
10138	Phenanthrene	85-01-8	0.84	U	0.84	2.1		1
10138	Pyrene	129-00-0	1.3	J	0.84	2.1		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	73	U	73	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	49	U	49	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	97	U	97	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	97	U	97	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	49	U	49	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	49	U	49	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	49	U	49	150	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	49	U	49	150	10000000	1
10132	Nitroglycerin	55-63-0	970	U	970	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	97	U	97	150	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	150	10000000	1
10132	4-Nitrotoluene	99-99-0	97	U	97	150	10000000	1
10132	PETN	78-11-5	970	U	970	2,900	10000000	1
10132	RDX	121-82-4	61	U	61	150	10000000	1
10132	Tetryl	479-45-8	74	U	74	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	49	U	49	150	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

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10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	49	U	49	150	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	750	U	750	1,900		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.2		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.2		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.2		1
10225	PCB-1016	12674-11-2	0.42	U	0.42	2.1		1
10225	PCB-1221	11104-28-2	0.42	U	0.42	2.1		1
10225	PCB-1232	11141-16-5	0.42	U	0.42	2.1		1
10225	PCB-1242	53469-21-9	0.42	U	0.42	2.1		1
10225	PCB-1248	12672-29-6	0.42	U	0.42	2.1		1
10225	PCB-1254	11097-69-1	0.42	U	0.42	2.1		1
10225	PCB-1260	11096-82-5	0.49	U	0.49	2.1		1
10225	PCB-1262	37324-23-5	0.42	U	0.42	2.1		1
10225	PCB-1268	11100-14-4	0.42	U	0.42	2.1		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.51	U	0.51	1.5		1
10199	EFH (C15-C20)	n.a.	0.51	U	0.51	1.5		1
10199	EFH (C21-C30)	n.a.	1.5		0.51	1.5		1
10199	EFH (C30 - C40)	n.a.	3.7		0.51	1.5		1
10199	EFH (C8-C11)	n.a.	0.51	U	0.51	1.5		1

Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are ND and 1.0 mg/kg respectively. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	130	U	130	630		1
10501	Isopropanol	67-63-0	130	U	130	630		1
10501	Methanol	67-56-1	130	U	130	630		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.3	U	6.3	16		1
08283	Ethylene glycol	107-21-1	6.3	U	6.3	16		1
08283	Propylene glycol	57-55-6	6.3	U	6.3	16		1

The sample was injected numerous times. Each time the responses for various

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.9	U	1.9	4.4		1
10318	o-Terphenyl	84-15-1	1.9	U	1.9	4.4		1
10318	p-Terphenyl	92-94-4	1.9	U	1.9	4.4		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	35,400		6.17	24.5		1
07914	Boron	7440-42-8	13.4		1.09	6.13		1
01650	Calcium	7440-70-2	25,500		7.51	24.5		1
01654	Iron	7439-89-6	34,500		28.9	123		5
01656	Lithium	7439-93-2	32.7		0.27	2.5		1
01657	Magnesium	7439-95-4	8,690		3.11	12.3		1
06958	Manganese	7439-96-5	455		0.0956	0.613		1
10145	Phosphorus	7723-14-0	325		0.686	12.3		1
01662	Potassium	7440-09-7	3,540		22.1	61.3		1
01667	Sodium	7440-23-5	263		45.7	123		1
07968	Strontium	7440-24-6	67.3		0.0760	0.613		1
06969	Tin	7440-31-5	2.95	J	1.23	12.3		1
06970	Titanium	7440-32-6	1,570		0.466	1.23		1
10146	Zirconium	7440-67-7	5.48	J	1.03	6.13		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.187	J	0.0743	0.248		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.53		0.0990	0.495		2
06126	Barium	7440-39-3	122		0.134	0.495		2
06127	Beryllium	7440-41-7	0.934		0.0198	0.124		2
06128	Cadmium	7440-43-9	0.336		0.0495	0.124		2
06131	Chromium	7440-47-3	34.8		0.149	0.495		2
06132	Cobalt	7440-48-4	10.4		0.0248	0.124		2
06133	Copper	7440-50-8	15.4		0.0817	0.495		2
06135	Lead	7439-92-1	11.3		0.0129	0.248		2
06138	Molybdenum	7439-98-7	0.378		0.0619	0.124		2
06139	Nickel	7440-02-0	24.4		0.124	0.495		2
06141	Selenium	7782-49-2	0.134	J	0.0495	0.495		2
06142	Silver	7440-22-4	0.0375	J	0.0149	0.124		2
06145	Thallium	7440-28-0	0.310		0.0371	0.124		2
06148	Vanadium	7440-62-2	66.3		0.0272	0.124		2
06149	Zinc	7440-66-6	69.5		0.693	3.71		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0079	J	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.9		1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	J	1.0	1.9		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.4	U	11.4	37.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	U	0.25	1.3		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.63		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	364		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	20.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-114-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	18:02	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	15:04	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:26	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:26	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 03:01	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 21:42	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 12:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 21:54	Marie D John	22.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:26	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 10:16	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 10:37	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/24/2011 22:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 20:21	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 20:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 05:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/19/2011 10:24	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228982
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10305 SDG#: DE102-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:43	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 19:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 19:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 00:22	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 17:18	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:40	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.9
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	188	U	188	376		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

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Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.88	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.53	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

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Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.3
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

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10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.71	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.5		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	19		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are 0.80 mg/kg and 3.4 mg/kg respectively. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

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Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,600		5.61	22.3		1
07914	Boron	7440-42-8	4.17	J	0.993	5.58		1
01650	Calcium	7440-70-2	3,420		6.84	22.3		1
01654	Iron	7439-89-6	18,700		5.26	22.3		1
01656	Lithium	7439-93-2	25.3		0.25	2.2		1
01657	Magnesium	7439-95-4	4,420		2.84	11.2		1
06958	Manganese	7439-96-5	273		0.0871	0.558		1
10145	Phosphorus	7723-14-0	337		0.625	11.2		1
01662	Potassium	7440-09-7	2,810		20.1	55.8		1
01667	Sodium	7440-23-5	112		41.6	112		1
07968	Strontium	7440-24-6	15.0		0.0692	0.558		1
06969	Tin	7440-31-5	2.57	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,100		0.424	1.12		1
10146	Zirconium	7440-67-7	0.941	J	0.938	5.58		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0676	U	0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.09		0.0902	0.451		2
06126	Barium	7440-39-3	69.8		0.122	0.451		2
06127	Beryllium	7440-41-7	0.496		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.138		0.0451	0.113		2
06131	Chromium	7440-47-3	14.4		0.135	0.451		2
06132	Cobalt	7440-48-4	4.56		0.0225	0.113		2
06133	Copper	7440-50-8	6.37		0.0744	0.451		2
06135	Lead	7439-92-1	4.50		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.356		0.0564	0.113		2
06139	Nickel	7440-02-0	9.69		0.113	0.451		2
06141	Selenium	7782-49-2	0.0866	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0199	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.250		0.0338	0.113		2
06148	Vanadium	7440-62-2	30.2		0.0248	0.113		2
06149	Zinc	7440-66-6	58.9		0.631	3.38		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	426		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-113-SA5A-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	18:24	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	15:24	Jason M Long	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:31	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:31	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 03:18	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/25/2011 22:06	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 12:42	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 22:30	Marie D John	25.3
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:30	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 10:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:33	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 10:56	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 02:10	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 20:36	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 20:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 08:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228983
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10306 SDG#: DE102-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:54	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 22:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 22:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 22:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 22:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 19:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 19:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 00:46	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 17:43	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11081102201A	03/23/2011 08:41	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11081102201A	03/22/2011 15:50	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.84
06192	Benzene	71-43-2	0.12	J	0.09	3.7		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.84
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.84
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.84
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.84
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.84
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.84
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.84
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.84
06192	Methylene Chloride	75-09-2	2.2	J	0.22	3.7		0.84
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.84

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.84
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.84
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.84
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.32
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	182	U	182	364		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.81	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.83
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	840	J	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.69	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	5.3		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The chlorobenzene surrogate recovery for the re-extraction is outside the method limits. The range that the surrogate represents is ND. The C21-C30 and C30-C40 results for the original extraction are ND and 0.70 mg/kg respectively. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,800		5.33	21.2		1
07914	Boron	7440-42-8	2.77	J	0.942	5.29		1
01650	Calcium	7440-70-2	4,350		6.49	21.2		1
01654	Iron	7439-89-6	22,200		4.99	21.2		1
01656	Lithium	7439-93-2	13.7		0.23	2.1		1
01657	Magnesium	7439-95-4	5,920		2.69	10.6		1
06958	Manganese	7439-96-5	335		0.0826	0.529		1
10145	Phosphorus	7723-14-0	801		0.593	10.6		1
01662	Potassium	7440-09-7	4,220		19.1	52.9		1
01667	Sodium	7440-23-5	220		39.5	106		1
07968	Strontium	7440-24-6	29.1		0.0656	0.529		1
06969	Tin	7440-31-5	2.09	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,620		0.402	1.06		1
10146	Zirconium	7440-67-7	0.889	U	0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0635	U	0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.22		0.0847	0.424		2
06126	Barium	7440-39-3	132		0.114	0.424		2
06127	Beryllium	7440-41-7	0.256		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.171		0.0424	0.106		2
06131	Chromium	7440-47-3	10.7		0.127	0.424		2
06132	Cobalt	7440-48-4	6.63		0.0212	0.106		2
06133	Copper	7440-50-8	17.9		0.0699	0.424		2
06135	Lead	7439-92-1	3.63		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.335		0.0529	0.106		2
06139	Nickel	7440-02-0	7.84		0.106	0.424		2
06141	Selenium	7782-49-2	0.0424	U	0.0424	0.424		2
06142	Silver	7440-22-4	0.0263	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.225		0.0318	0.106		2
06148	Vanadium	7440-62-2	45.7		0.0233	0.106		2
06149	Zinc	7440-66-6	1,100		5.93	31.8		20

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Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

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14420 Albemarle Point Place
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10307 SDG#: DE102-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0337	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	423		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-113-SA5A-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011 18:46	Chelsea B Eastep	0.84

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011 15:44	Jason M Long	22.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:35	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 03:35	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/26/2011 03:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 13:13	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 23:07	Marie D John	20.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:34	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 11:41	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 00:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 11:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/24/2011 23:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 20:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 20:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 06:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1

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Sample Description: SL-113-SA5A-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228984
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10307 SDG#: DE102-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 20:58	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 23:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 23:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 23:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 23:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/22/2011 21:41	David K Beck	20
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 19:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 19:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 01:10	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11074243201A	03/16/2011 17:49	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:26	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.97
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.97
06192	Methylene Chloride	75-09-2	0.95	J	0.26	4.4		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.97

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Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.97
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	190	U	190	380		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1

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Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.94	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.75	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1

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Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.0	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1

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Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.3		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	5.9		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
	Several ranges were detected in the method blank. The sample was re-extracted within method hold time. The re-extracted method blank was contaminated in the C30-C40 range. The re-extracted LCS is outside the method limits for several ranges. The C21-C30 and C30-C40 results for the original extraction are 0.60 and 1.5 mg/kg respectively. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various							

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Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,600		5.57	22.1		1
07914	Boron	7440-42-8	5.19	J	0.985	5.54		1
01650	Calcium	7440-70-2	2,980		6.79	22.1		1
01654	Iron	7439-89-6	22,000		5.21	22.1		1
01656	Lithium	7439-93-2	32.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,020		2.81	11.1		1
06958	Manganese	7439-96-5	225		0.0863	0.554		1
10145	Phosphorus	7723-14-0	268		0.620	11.1		1
01662	Potassium	7440-09-7	2,490		19.9	55.4		1
01667	Sodium	7440-23-5	371		41.3	111		1
07968	Strontium	7440-24-6	22.2		0.0686	0.554		1
06969	Tin	7440-31-5	2.90	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,300		0.421	1.11		1
10146	Zirconium	7440-67-7	2.06	J	0.930	5.54		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0901	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.07		0.0894	0.447		2
06126	Barium	7440-39-3	140		0.121	0.447		2
06127	Beryllium	7440-41-7	0.765		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.161		0.0447	0.112		2
06131	Chromium	7440-47-3	27.1		0.134	0.447		2
06132	Cobalt	7440-48-4	9.06		0.0224	0.112		2
06133	Copper	7440-50-8	12.1		0.0738	0.447		2
06135	Lead	7439-92-1	17.7		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.642		0.0559	0.112		2
06139	Nickel	7440-02-0	20.9		0.112	0.447		2
06141	Selenium	7782-49-2	0.145	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0645	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.335		0.0335	0.112		2
06148	Vanadium	7440-62-2	49.5		0.0246	0.112		2
06149	Zinc	7440-66-6	67.8		0.626	3.35		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	418		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-227-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110741AA	03/15/2011	19:08	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110741AA	03/15/2011	16:04	Jason M Long	20.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011	13:38	Christopher D Meeks	n.a.

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Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201107123866	03/12/2011 13:43	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201107123866	03/12/2011 13:39	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11076SLI026	04/01/2011 03:52	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11082SLA026	03/26/2011 03:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11076SLK026	03/24/2011 13:45	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11076SLI026	03/18/2011 18:15	Sally L Appleyard	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11076SLK026	03/18/2011 17:20	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	2	11082SLA026	03/23/2011 13:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11073A34A	03/14/2011 23:43	Marie D John	21.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201107123866	03/12/2011 13:38	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	110750002A	03/18/2011 12:23	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	110730008A	03/17/2011 01:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110750014A	03/22/2011 11:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110750014A	03/16/2011 17:35	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110730008A	03/14/2011 14:15	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	110750002A	03/17/2011 14:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110810023A	03/25/2011 00:28	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	110750026A	03/16/2011 21:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	110730007A	03/16/2011 20:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	110760037A	03/20/2011 07:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110810023A	03/23/2011 03:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110760037A	03/18/2011 17:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	110730007A	03/14/2011 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	110750026A	03/16/2011 15:55	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
07914	Boron	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01654	Iron	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
06969	Tin	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228985
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10308 SDG#: DE102-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	110755708001	03/17/2011 21:03	John P Hook	1
06124	Antimony	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110751026001D	03/18/2011 23:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110751026001C	03/18/2011 23:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110751026001B	03/18/2011 23:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110751026001A	03/18/2011 23:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110755711002	03/17/2011 05:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110755708001	03/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110751026001	03/16/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110755711002	03/17/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11076495201A	03/18/2011 20:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11076495201A	03/18/2011 20:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11076076201B	03/18/2011 01:34	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11074243201A	03/16/2011 18:07	Carrie E Miller	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11082102201A	03/23/2011 16:32	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11076495201A	03/18/2011 02:10	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11076076201B	03/17/2011 12:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11082102201A	03/23/2011 10:20	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11074182101B	03/15/2011 09:45	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11074039401B	03/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11074243201A	03/15/2011 21:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-031111 Water**
SSFL Area IV Collocated Soil Sampling
TB-031111

LLI Sample # WW 6228986
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:00

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10309 SDG#: DE102-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **TB-031111 Water**
SSFL Area IV Collocated Soil Sampling
TB-031111

LLI Sample # WW 6228986
LLI Group # 1237087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:00

Submitted: 03/12/2011 09:50
Reported: 04/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10309 SDG#: DE102-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110741AA	03/15/2011	15:38	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110731AA	03/14/2011	12:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110731AA	03/14/2011	12:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110741AA	03/15/2011	15:38	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11075B20A	03/17/2011	12:21	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11075B20A	03/17/2011	12:21	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110741AA	Sample number(s): 6228975-6228980,6228982-6228985									
Acetone	6.7	U	6.7	8.0	ug/kg	104		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	90		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	80		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	79		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	101		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	108		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	112		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	100		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	91		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	84		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	82		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	83		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	91		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	86		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	96		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	97		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	98		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	101		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	98		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	119		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	107		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	100		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	98		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	100		61-134		
Methylene Chloride	0.67	J	0.24	4.0	ug/kg	107		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	110		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	89		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	102		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	94		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	94		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	96		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	86		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	93		80-120		
Batch number: E110731AA	Sample number(s): 6228986									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	115	80-123	4	30
Batch number: E110741AA	Sample number(s): 6228975-6228980,6228982-6228985									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	104	70-130	4	30
Batch number: Y110741AA	Sample number(s): 6228986									
Acetone	6	U	6.	20	ug/l	79	70	49-234	13	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	100	99	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	99	100	80-120	0	30
Bromodichloromethane	1	U	1.	5	ug/l	93	92	80-120	2	30
Bromoform	1	U	1.	5	ug/l	76	76	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	86	86	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	95	96	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	95	95	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	98	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	96	98	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	82	82	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	79	79	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	100	100	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	85	86	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	67	69	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	88	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	87	86	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	97	98	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	96	96	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	76	77	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	100	100	79-120	0	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	108	106	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	91	90	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	96	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	97	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	99	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	90	89	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	92	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	96	95	79-120	2	30
Freon 113	2	U	2.	10	ug/l	93	94	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	99	99	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	88	89	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	94	93	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	97	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	94	95	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	101	101	80-120	1	30
Styrene	1	U	1.	5	ug/l	89	88	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	94	94	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	93	94	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	95	94	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	94	94	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	93	93	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	92	92	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	88	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	95	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	92	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	99	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	98	98	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Batch number: 11076SLI026	Sample number(s): 6228975-6228980,6228982-6228985									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11076SLK026	Sample number(s): 6228975-6228980,6228982-6228985									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	122		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	11	J	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	123		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	122		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	11	J	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	91		56-121		
Batch number: 11082SLA026	Sample number(s): 6228975-6228980,6228982-6228985									
Acenaphthene	17	U	17.	170	ug/kg	88		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	92		75-122		
Aniline	170 U		170.	500	ug/kg	58		34-94		
Anthracene	17	U	17.	170	ug/kg	91		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	37		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	105		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	105		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	102		67-125		
Benzoic acid	170 U		170.	500	ug/kg	79		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	84		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	89		79-112		
Carbazole	17	U	17.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	81		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	55		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	81		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	79		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	88		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		79-110		
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	60		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	85		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	82		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	93		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	89		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	78		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	68		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	87		73-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	89		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	80		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	89		75-117		
Fluoranthene	17	U	17.	170	ug/kg	91		78-116		
Fluorene	17	U	17.	170	ug/kg	89		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	91		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	105		64-119		
Isophorone	17	U	17.	170	ug/kg	76		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	90		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	83		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	83		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	85		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	74		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	87		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	71		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	70		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	66		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	83		51-117		
Phenanthrene	17	U	17.	170	ug/kg	92		77-113		
Phenol	17	U	17.	170	ug/kg	80		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11073A34A	Sample number(s): 6228975-6228980,6228982-6228985									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72		67-119		
Batch number: 11075B20A	Sample number(s): 6228986									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 110750002A	Sample number(s): 6228975-6228980,6228982-6228985									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	112	112	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	111	111	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100	U	100.	300	ug/kg	103		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	109		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	101		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	109		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	109		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80 U	U	80.	120	ug/kg	107		80-120		
PETN	800 U	U	800.	2,400	ug/kg	117		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	105		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 110730008A	Sample number(s): 6228975-6228980,6228982-6228985									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 110750014A	Sample number(s): 6228975-6228980,6228982-6228985									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	74	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110760020A	Sample number(s): 6228976									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C21-C30)	0.48	J	0.40	1.2	mg/kg	104		66-113		
EFH (C30 - C40)	2.6		0.40	1.2	mg/kg	96		66-113		
EFH (C8-C11)	0.47	J	0.40	1.2	mg/kg	74		66-113		
Batch number: 110810023A	Sample number(s): 6228975,6228977-6228980,6228982-6228985									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	118*		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	121*		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	126*		66-113		
EFH (C30 - C40)	0.54	J	0.40	1.2	mg/kg	116*		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	94		66-113		
Batch number: 110730007A	Sample number(s): 6228975-6228980,6228982-6228985									
Diethylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	80		75-125		
Batch number: 110750026A	Sample number(s): 6228975-6228980,6228982-6228985									
Ethanol	100 U	U	100.	500	ug/kg	95		71-129		
Isopropanol	100 U	U	100.	500	ug/kg	102		75-125		
Methanol	100 U	U	100.	500	ug/kg	91		68-129		
Batch number: 110760037A	Sample number(s): 6228975-6228980,6228982-6228985									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	78		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 110751026001A	Sample number(s): 6228975-6228985									
Antimony	0.0600	U	0.0600	0.200	mg/kg	95		11-208		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		80-120		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		82-118		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0105	J	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100	U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120	U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		81-119		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	102		90-110		
Zinc	0.644	J	0.560	3.00	mg/kg	101		78-122		
Batch number: 110751026001B	Sample number(s): 6228975-6228985									
Selenium	0.0400	U	0.0400	0.400	mg/kg	113		79-122		
Batch number: 110751026001C	Sample number(s): 6228975-6228985									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110751026001D	Sample number(s): 6228975-6228985									
Barium	0.108	U	0.108	0.400	mg/kg	103		79-121		
Batch number: 110755708001	Sample number(s): 6228975-6228985									
Aluminum	5.03	U	5.03	20.0	mg/kg	99		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	8.02	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.34	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	104		79-121		
Tin	1.44	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	98		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 110755711002	Sample number(s): 6228975-6228985									
Mercury	0.0028	U	0.0028	0.0985	mg/kg	98		88-123		
Batch number: 11074243201A	Sample number(s): 6228975-6228979,6228981-6228985									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11076076201A	Sample number(s): 6228975-6228977									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11076076201B	Sample number(s): 6228978-6228979,6228981-6228985									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11076495201A	Sample number(s): 6228975-6228979,6228981-6228985									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11081102201A	Sample number(s): 6228975-6228979,6228981-6228983									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	110		80-120		
Batch number: 11082102201A	Sample number(s): 6228984-6228985									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11074039401A	Sample number(s): 6228975-6228977									
18a pH by 9045C						100		95-105		
Batch number: 11074039401B	Sample number(s): 6228978,6228981-6228985									
18a pH by 9045C						100		95-105		
Batch number: 11074182101A	Sample number(s): 6228975-6228977									
32a OR Potential						99		98-102		
Batch number: 11074182101B	Sample number(s): 6228978,6228981-6228985									
32a OR Potential						99		98-102		
Batch number: 11083162401A	Sample number(s): 6228975-6228985									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B110741AA	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Acetone	111	93	15-210	3	30				
Benzene	106	109	55-143	24	30				
Bromobenzene	99	108	43-139	28	30				
Bromochloromethane	125	121	60-137	18	30				
Bromodichloromethane	93	95	53-136	23	30				
Bromoform	80	77	38-124	17	30				
Bromomethane	82	92	42-168	32*	30				
2-Butanone	101	86	37-163	5	30				
n-Butylbenzene	107	118	30-146	30	30				
sec-Butylbenzene	110	121	33-157	30	30				
tert-Butylbenzene	101	108	41-152	27	30				
Carbon Tetrachloride	97	103	45-153	26	30				
Chlorobenzene	98	104	49-135	27	30				
Chloroethane	84	94	39-152	32*	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	21	30				
Chloroform	104	107	61-142	23	30				
Chloromethane	89	95	51-163	27	30				
2-Chlorotoluene	101	111	42-146	30	30				
4-Chlorotoluene	99	108	39-145	29	30				
Chlorotrifluoroethene	87	93	70-130	16	30				
1,2-Dibromo-3-chloropropane	84	75	30-139	9	30				
Dibromochloromethane	85	86	51-128	22	30				
1,2-Dibromoethane	97	94	54-129	18	30				
Dibromomethane	97	96	57-130	19	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichlorobenzene	92	98	36-133	26	30				
1,3-Dichlorobenzene	95	104	34-134	29	30				
1,4-Dichlorobenzene	94	102	35-136	29	30				
Dichlorodifluoromethane	76	82	26-151	28	30				
1,1-Dichloroethane	104	109	63-142	25	30				
1,2-Dichloroethane	101	99	68-131	19	30				
1,1-Dichloroethene	121	125	61-149	23	30				
cis-1,2-Dichloroethene	102	107	60-136	25	30				
trans-1,2-Dichloroethene	108	112	59-142	24	30				
1,2-Dichloropropane	102	105	62-135	23	30				
1,3-Dichloropropane	99	98	58-129	19	30				
2,2-Dichloropropane	96	101	53-147	26	30				
1,1-Dichloropropene	107	111	54-145	24	30				
cis-1,3-Dichloropropene	90	93	51-131	24	30				
trans-1,3-Dichloropropene	86	88	49-129	22	30				
Ethylbenzene	102	108	44-141	27	30				
Freon 113	131	134	56-156	23	30				
Freon 133a	116	118	61-131	10	30				
Hexachlorobutadiene	92	97	10-155	26	30				
2-Hexanone	99	86	32-160	7	30				
Isopropylbenzene	100	105	38-144	26	30				
p-Isopropyltoluene	107	117	29-152	29	30				
Methyl Tertiary Butyl Ether	96	94	55-129	18	30				
4-Methyl-2-pentanone	98	85	46-139	6	30				
Methylene Chloride	115	113	61-141	18	30				
n-Propylbenzene	111	125	39-157	32*	30				
Styrene	96	101	35-134	26	30				
1,1,1,2-Tetrachloroethane	89	91	52-130	24	30				
1,1,2,2-Tetrachloroethane	101	95	40-152	15	30				
Tetrachloroethene	101	103	42-149	23	30				
Toluene	102	107	50-146	25	30				
1,2,3-Trichlorobenzene	78	80	10-140	22	30				
1,2,4-Trichlorobenzene	82	84	10-136	23	30				
1,1,1-Trichloroethane	99	105	64-142	26	30				
1,1,2-Trichloroethane	98	96	54-139	19	30				
Trichloroethene	103	104	53-144	22	30				
Trichlorofluoromethane	105	113	47-163	27	30				
1,2,3-Trichloropropane	101	95	45-154	14	30				
1,2,4-Trimethylbenzene	102	112	37-149	30	30				
1,3,5-Trimethylbenzene	103	113	38-150	29	30				
Vinyl Chloride	93	100	50-154	28	30				
m+p-Xylene	99	106	44-137	28	30				
o-Xylene	94	101	42-137	27	30				
Batch number: E110741AA	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
1,4-Dioxane	95	98	70-130	11	30				
Batch number: 11076SLI026	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
N-Nitrosodimethylamine	68*	67*	70-130	2	30				
Batch number: 11076SLK026	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Acenaphthene	91	86	63-105	5	30				
Acenaphthylene	90	85	67-114	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	96	91	60-122	5	30				
Benzo(a)anthracene	99	97	59-128	3	30				
Benzo(a)pyrene	107	103	45-138	4	30				
Benzo(b)fluoranthene	108	103	43-155	4	30				
Benzo(g,h,i)perylene	118	117	33-141	1	30				
Benzo(k)fluoranthene	111	108	42-144	2	30				
Butylbenzylphthalate	106	100	57-173	5	30				
Di-n-butylphthalate	77	73	65-148	3	30				
Chrysene	99	96	48-134	2	30				
Dibenz(a,h)anthracene	123	120	22-133	2	30				
Diethylphthalate	104	99	70-136	4	30				
Dimethylphthalate	103	101	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	114	110	39-167	3	30				
Fluoranthene	104	101	26-166	2	30				
Fluorene	96	93	66-122	3	30				
Indeno(1,2,3-cd)pyrene	121	119	21-143	1	30				
1-Methylnaphthalene	89	85	72-123	4	30				
2-Methylnaphthalene	81	78	64-103	4	30				
Naphthalene	89	83	61-102	6	30				
N-Nitrosodimethylamine	93	84	48-113	10	30				
Di-n-octylphthalate	128	128	40-192	0	30				
Phenanthrene	94	89	12-165	5	30				
Pyrene	90	86	15-153	4	30				
Batch number: 11082SLA026	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Acenaphthene	85	87	75-115	3	30				
Acenaphthylene	89	91	81-110	2	30				
Aniline	61	64	35-95	5	30				
Anthracene	87	90	75-115	3	30				
Benzidine	45	41	35-141	9	30				
Benzo(a)anthracene	87	89	65-122	2	30				
Benzo(a)pyrene	98	102	57-126	4	30				
Benzo(b)fluoranthene	92	105	59-125	13	30				
Benzo(g,h,i)perylene	100	103	59-127	3	30				
Benzo(k)fluoranthene	106	98	56-132	8	30				
Benzoic acid	46	44	10-173	5	30				
Benzyl alcohol	76	80	67-115	6	30				
4-Bromophenyl-phenylether	87	90	67-129	3	30				
Butylbenzylphthalate	89	91	73-134	3	30				
Di-n-butylphthalate	83	85	67-123	3	30				
Carbazole	85	87	64-120	3	30				
4-Chloro-3-methylphenol	75*	78	76-110	3	30				
4-Chloroaniline	70	73	23-95	4	30				
bis(2-Chloroethoxy)methane	79	80	75-104	2	30				
bis(2-Chloroethyl)ether	75	79	60-116	4	30				
bis(2-Chloroisopropyl)ether	68	71	55-142	5	30				
2-Chloronaphthalene	71	71	50-141	0	30				
2-Chlorophenol	84	86	73-121	2	30				
4-Chlorophenyl-phenylether	88	90	80-109	2	30				
Chrysene	91	94	62-128	3	30				
Dibenz(a,h)anthracene	99	102	65-125	4	30				
Dibenzofuran	88	89	71-112	1	30				
1,2-Dichlorobenzene	79	83	66-108	5	30				

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Quality Control Summary

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Reported: 04/04/11 at 03:10 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dichlorobenzene	77	84	63-109	8	30				
1,4-Dichlorobenzene	77	84	70-100	8	30				
3,3'-Dichlorobenzidine	52	59	16-119	14	30				
2,4-Dichlorophenol	86	89	78-117	3	30				
Diethylphthalate	81	83	66-118	2	30				
2,4-Dimethylphenol	78	80	78-110	2	30				
3,5-Dimethylphenol	87	88	70-130	1	30				
Dimethylphthalate	84	87	64-118	3	30				
4,6-Dinitro-2-methylphenol	74	79	24-116	6	30				
2,4-Dinitrophenol	61	61	20-143	0	30				
2,4-Dinitrotoluene	82	83	73-113	1	30				
2,6-Dinitrotoluene	84	87	69-123	4	30				
1,2-Diphenylhydrazine	78	80	71-129	2	30				
bis(2-Ethylhexyl)phthalate	87	89	63-122	3	30				
Fluoranthene	85	89	73-112	4	30				
Fluorene	85	86	77-111	2	30				
Hexachlorobenzene	89	92	77-114	3	30				
Hexachlorobutadiene	83	88	62-120	6	30				
Hexachlorocyclopentadiene	87	94	10-153	8	30				
Hexachloroethane	70	76	57-109	7	30				
Indeno(1,2,3-cd)pyrene	96	102	61-126	6	30				
Isophorone	73	75	73-102	3	30				
1-Methylnaphthalene	86	89	73-112	3	30				
2-Methylnaphthalene	80	81	76-114	2	30				
2-Methylphenol	77	78	75-111	1	30				
4-Methylphenol	81	83	71-111	2	30				
Naphthalene	83	85	72-116	2	30				
2-Nitroaniline	83	85	67-125	2	30				
3-Nitroaniline	81	82	59-122	1	30				
4-Nitroaniline	64	69	52-112	8	30				
Nitrobenzene	72	73	72-106	1	30				
2-Nitrophenol	84	85	74-115	1	30				
4-Nitrophenol	65	65	54-113	0	30				
N-Nitroso-di-n-propylamine	66	68	60-116	3	30				
N-Nitrosodimethylamine	68	69	47-116	2	30				
N-Nitrosodiphenylamine	92	94	86-145	2	30				
Di-n-octylphthalate	99	100	56-126	1	30				
Pentachlorophenol	74	80	28-127	8	30				
Phenanthrene	87	89	65-125	3	30				
Phenol	75	77	58-126	3	30				
Pyrene	94	97	74-126	3	30				
1,2,4-Trichlorobenzene	86	90	72-115	4	30				
2,4,5-Trichlorophenol	87	89	78-109	2	30				
2,4,6-Trichlorophenol	86	88	77-115	2	30				
Batch number: 11073A34A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
9a TPH by EPA 8015B Gas C5-C12	59	60	39-118	18	30				
Batch number: 110750002A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
4-Amino-2,6-Dinitrotoluene	106	115	80-127	9	50				
2-Amino-4,6-Dinitrotoluene	102	110	80-137	10	50				
1,3-Dinitrobenzene	102	110	38-166	9	50				
2,4-Dinitrotoluene	99	107	80-131	9	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,6-Dinitrotoluene	104	114	80-127	12	50				
HMX	83	98	63-128	19	50				
Nitrobenzene	99	105	80-125	8	50				
Nitroglycerin	96	103	80-120	9	50				
2-Nitrotoluene	100	106	80-122	8	50				
3-Nitrotoluene	100	107	72-119	8	50				
4-Nitrotoluene	99	105	80-125	8	50				
PETN	105	116	80-121	12	50				
RDX	89	89	75-129	1	50				
Tetryl	84	93	55-174	12	50				
1,3,5-Trinitrobenzene	137*	109	82-126	21	50				
2,4,6-Trinitrotoluene	103	111	82-130	9	50				
Batch number: 110730008A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
25a Formaldehyde 8315A	99	95	80-120	4	50				
Batch number: 110750014A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
PCB-1016	88	94	29-146	7	50				
PCB-1260	95	107	39-149	12	50				
Batch number: 110760020A	Sample number(s): 6228976 UNSPK: P228978								
EFH (C12-C14)	81	79	49-123	3	20				
EFH (C15-C20)	101	102	49-123	2	20				
EFH (C21-C30)	107	179*	49-123	51*	20				
EFH (C30 - C40)	54	118	49-123	45*	20				
EFH (C8-C11)	81	73	49-123	11	20				
Batch number: 110810023A	Sample number(s): 6228975,6228977-6228980,6228982-6228985 UNSPK: 6228978								
EFH (C12-C14)	101	108	49-123	8	20				
EFH (C15-C20)	8*	15*	49-123	5	20				
EFH (C21-C30)	-28*	-37*	49-123	4	20				
EFH (C30 - C40)	-485 (2)	-518 (2)	49-123	9	20				
EFH (C8-C11)	77	81	49-123	6	20				
Batch number: 110730007A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Diethylene glycol	54*	67	59-109	21*	20				
Ethylene glycol	68	73	63-107	6	20				
Propylene glycol	75	76	63-107	2	20				
Batch number: 110750026A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
Ethanol	79	77	48-130	2	20				
Isopropanol	85	83	12-149	2	20				
Methanol	81	79	43-138	3	20				
Batch number: 110760037A	Sample number(s): 6228975-6228980,6228982-6228985 UNSPK: 6228978								
m-Terphenyl	72*	75	75-125	4	20				
o-Terphenyl	84	87	75-125	4	20				
p-Terphenyl	71*	74*	75-125	4	20				
Batch number: 110751026001A	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Antimony	50*	45*	75-125	10	20	0.224	0.155 J	36* (1)	20
Arsenic	105	107	75-125	0	20	7.19	5.70	23*	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Beryllium	102	99	75-125	2	20	0.883	0.733	18	20
Cadmium	128*	108	75-125	15	20	0.344	0.210	49* (1)	20
Chromium	96	89	75-125	2	20	34.2	28.1	20	20
Cobalt	105	94	75-125	12	20	7.97	7.62	4	20
Copper	95	89	75-125	4	20	13.6	12.3	10	20
Lead	162*	96	75-125	14	20	10.3	8.72	16	20
Nickel	160*	110	75-125	15	20	21.4	18.1	17	20
Silver	117	118	75-125	1	20	0.0603 J	0.0471 J	25* (1)	20
Thallium	128*	95	75-125	18	20	0.323	0.250	25* (1)	20
Vanadium	119 (2)	96 (2)	75-125	3	20	63.4	53.0	18	20
Zinc	66 (2)	69 (2)	75-125	0	20	63.4	54.4	15	20
Batch number: 110751026001B	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Selenium	111	106	75-125	7	20	0.125 J	0.0660 J	62* (1)	20
Batch number: 110751026001C	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Molybdenum	120	113	75-125	8	20	0.270	0.240	12 (1)	20
Batch number: 110751026001D	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Barium	134 (2)	116 (2)	75-125	2	20	117	92.8	23*	20
Batch number: 110755708001	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Aluminum	1171 (2)	414 (2)	75-125	5	20	28,700	27,700	3	20
Boron	99	99	84-115	2	20	10.7	10.2	5 (1)	20
Calcium	6342 (2)	7873 (2)	75-125	12	20	27,700	33,300	18	20
Iron	-650 (2)	-2631 (2)	75-125	8	20	26,400	25,500	4	20
Lithium	104	103	82-114	2	20	25.5	25.1	2	20
Magnesium	-50 (2)	-194 (2)	75-125	5	20	6,430	6,210	3	20
Manganese	-167 (2)	-131 (2)	75-125	6	20	350	356	2	20
Phosphorus	77	89	75-125	5	20	190	209	9	20
Potassium	118	110	75-125	1	20	2,650	2,690	2	20
Sodium	100	99	75-125	2	20	219	211	4 (1)	20
Strontium	102	93	75-115	4	20	52.0	52.4	1	20
Tin	84	84	80-110	3	20	2.40 J	2.16 J	10 (1)	20
Titanium	163 (2)	138 (2)	75-125	1	20	1,210	1,190	2	20
Zirconium	95	96	75-125	3	20	4.30 J	5.09	17 (1)	20
Batch number: 110755711002	Sample number(s): 6228975-6228985 UNSPK: 6228978 BKG: 6228978								
Mercury	108	103	65-135	7	20	0.0071 J	0.0110 J	43* (1)	20
Batch number: 11074243201A	Sample number(s): 6228975-6228979,6228981-6228985 UNSPK: 6228978 BKG: 6228978								
3a Cr VI by EPA 7199	89		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11076076201A	Sample number(s): 6228975-6228977 UNSPK: P224306 BKG: P224306								
7a Perchlorate EPA 314.0	115		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11076076201B	Sample number(s): 6228978-6228979,6228981-6228985 UNSPK: 6228978 BKG: 6228978								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11076495201A	Sample number(s): 6228975-6228979,6228981-6228985 UNSPK: 6228978 BKG: 6228978								
11a Anions by 300.0 - Fluoride	72*		80-120			5.1	5.1	0	20
11a Anions by 300.0 - Nitrate	98		80-120			1.7	1.5	13 (1)	20
Batch number: 11081102201A	Sample number(s): 6228975-6228979,6228981-6228983 UNSPK: 6228978 BKG: 6228978								
17a Cyanide by 9012B	115		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11082102201A	Sample number(s): 6228984-6228985 UNSPK: 6228984 BKG: 6228984								
17a Cyanide by 9012B	104		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11074039401A	Sample number(s): 6228975-6228977 BKG: P225085								
18a pH by 9045C						6.66	6.66	0	1
Batch number: 11074039401B	Sample number(s): 6228978,6228981-6228985 BKG: 6228978								
18a pH by 9045C						8.06	8.06	0	1
Batch number: 11074182101A	Sample number(s): 6228975-6228977 BKG: P225085								
32a OR Potential						382	385	1	6
Batch number: 11074182101B	Sample number(s): 6228978,6228981-6228985 BKG: 6228978								
32a OR Potential						328	328	0	6
Batch number: 11083162401A	Sample number(s): 6228975-6228985 BKG: 6228978								
28a Moisture Content by 160.3						22.8	22.9	1	20
Moisture Content by 160.3						22.8	22.9	1	20
Moisture Content by 160.3						22.8	22.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110741AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6228975	97	93	101	93
6228976	97	97	101	94
6228977	98	98	100	94
6228978	98	102	97	95
6228979	99	103	101	101
6228980	96	93	101	98
6228982	96	97	98	94
6228983	97	98	98	93
6228984	97	96	98	93
6228985	97	99	98	93
Blank	98	101	99	94
LCS	99	100	102	98
MS	99	103	101	101

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

MSD	96	93	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110731AA

	Toluene-d8
6228986	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110741AA

	Toluene-d8
6228975	98
6228976	96
6228977	95
6228978	96
6228979	95
6228980	96
6228982	95
6228983	96
6228984	95
6228985	98
Blank	95
LCS	95
LCSD	99
MS	95
MSD	96
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110741AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6228986	104	100	102	97
Blank	103	99	101	97
LCS	103	102	101	98
LCSD	103	102	101	98
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11076SLI026

	N-Nitrosodimethylamine-d6
6228975	97
6228976	104
6228977	102
6228978	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

6228979	104
6228980	100
6228982	101
6228983	103
6228984	102
6228985	101
Blank	94
LCS	90
MS	104
MSD	100
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11076SLK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6228975	93	52	91
6228976	93	56	79
6228977	86	81	91
6228978	76	72	84
6228979	98	88	90
6228980	97	85	89
6228982	94	90	86
6228983	84	82	81
6228984	93	88	88
6228985	91	87	87
Blank	87	85	90
LCS	91	86	89
MS	98	88	90
MSD	97	85	89
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11082SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6228975	73	77	79	63	77	85
6228976	78	85	84	70	91	90
6228977	73	77	83	64	85	84
6228978	72	77	79	64	82	84
6228979	77	83	85	71	89	84
6228980	80	85	88	72	91	87
6228982	78	84	85	69	87	89
6228983	77	83	85	69	91	89
6228984	78	84	86	67	88	94
6228985	81	86	86	68	88	93
Blank	76	83	87	71	92	89
LCS	82	85	91	72	91	87
MS	77	83	85	71	89	84
MSD	80	85	88	72	91	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11073A34A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

	Trifluorotoluene-F
6228975	71
6228976	80
6228977	77
6228978	73
6228979	76
6228980	74
6228982	74
6228983	70
6228984	71
6228985	81
Blank	82
LCS	86
MS	76
MSD	74
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11075B20A

	Trifluorotoluene-F
6228986	78
Blank	78
LCS	100
LCSD	101
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 110730008A

	Butyraldehyde
6228975	100
6228976	93
6228977	102
6228978	103
6228979	98
6228980	93
6228982	96
6228983	84
6228984	91
6228985	92
Blank	101
LCS	102
MS	98
MSD	93
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 110750002A

	2-Nitro-m-xylene
6228975	115
6228976	108

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

6228977	117
6228978	106
6228979	114
6228980	114
6228982	111
6228983	108
6228984	110
6228985	108
Blank	114
LCS	121
LCSD	117
MS	114
MSD	114
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110750014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6228975	77	80
6228976	85	72
6228977	88	84
6228978	91	83
6228979	89	78
6228980	97	89
6228982	77	78
6228983	100	84
6228984	91	85
6228985	96	81
Blank	94	74
LCS	96	90
LCSD	95	92
MS	89	78
MSD	97	89
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 110730007A

	Tetramethylene glycol
6228975	62
6228976	65
6228977	66
6228978	63
6228979	83
6228980	78
6228982	61
6228983	66
6228984	68
6228985	46
Blank	99
LCS	98
MS	83
MSD	78
Limits:	29-137

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

Analysis Name: 19a Alcohols by 8015B
Batch number: 110750026A

	Acetone
6228975	86
6228976	93
6228977	90
6228978	87
6228979	85
6228980	83
6228982	83
6228983	91
6228984	91
6228985	88
Blank	108
LCS	106
MS	85
MSD	83
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110760020A

	Chlorobenzene	Orthoterphenyl
6228976	81	83
Blank	81	92
LCS	93	96
MS	77	90
MSD	75	88
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 110760037A

	n-Triacontane-d62
6228975	64
6228976	73
6228977	67
6228978	63
6228979	65
6228980	79
6228982	63
6228983	67
6228984	70
6228985	66
Blank	65
LCS	65
MS	65
MSD	79
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110810023A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237087
Reported: 04/04/11 at 03:10 PM

Surrogate Quality Control

	Chlorobenzene	Orthoterphenyl
6228975	91	107
6228977	92	107
6228978	91	112
6228979	83	106
6228980	89	114
6228982	93	111
6228983	96	112
6228984	126*	117
6228985	88	109
Blank	97	110
LCS	95	115
MS	83	106
MSD	89	114
Limits:	37-125	47-145

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A# 13243 G# K375077 Sample# 6227112 Bo

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SM7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	5-Encores									X	X	X											FIELD DUP
SL-112-SA5A-SB-8.5-9.5	03.11.11	1206	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-9.0	03.11.11	1203	SOIL	NONE	5-Encores									X	X	X											
SL-112-SA5A-SB-14.0-15.0	03.11.11	1216	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-14.5	03.11.11	1212	SOIL	NONE	5-Encores									X	X	X											
SL-114-SA5A-SB-4.0-5.MS	03.11.11	0834	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-114-SA5A-SB-4.5MS	03.11.11	0830	SOIL	NONE	15-Encores									X	X	X											MS/MSD
SL-114-SA5A-SB-9.0-10.0	03.11.11	0843	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-114-SA5A-SB-9.5	03.11.11	0840	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-9.0-10.0	03.11.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-9.5	03.11.11	1525	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-14.0-15.0	03.11.11	1539	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-14.5	03.11.11	1533	SOIL	NONE	5-Encores									X	X	X											
SL-227-SA5B-SB-2.5-3.5	03.11.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-227-SA5B-SB-3.0	03.11.11	1406	SOIL	NONE	5-Encores									X	X	X											
TB-031111	03.11.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Amended (CDC)

Relinquished by: (*Signature*)	**Date/Time**	**Received for Laboratory by: (*Signature*)**	**Laboratory:**
	03/11/2011 / 17:00		**Lancaster Laboratories, Inc.**
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1432 5430, ...5420	

acct#13013 Ap#1237087 Sample# 6323975-86

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: [signature] - courier

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PETs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	5-Encores									X	X	X											FIELD DUP
SL-112-SA5A-SB-8.5-9.5	03.11.11	1206	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-9.0	03.11.11	1203	SOIL	NONE	5-Encores									X	X	X											
SL-112-SA5A-SB-14.0-15.0	03.11.11	1216	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-14.5	03.11.11	1212	SOIL	NONE	5-Encores									X	X	X											
SL-114-SA5A-SB-4.0-5.MS	03.11.11	0834	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-114-SA5A-SB-4.5MS	03.11.11	0830	SOIL	NONE	15-Encores									X	X	X											MS/MSD
SL-114-SA5A-SB-9.0-10.0	03.11.11	0843	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-114-SA5A-SB-9.5	03.11.11	0840	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-9.0-10.0	03.11.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-9.5	03.11.11	1525	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-14.0-15.0	03.11.11	1539	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-14.0-14.5	03.11.11	1533	SOIL	NONE	5-Encores									X	X	X											
SL-227-SA5B-SB-2.5-3.5	03.11.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-227-SA5B-SB-3.0	03.11.11	1406	SOIL	NONE	5-Encores									X	X	X											
TB-031111	03.11.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*) [signature] — Date/Time: 03/11/2011 / 17:00

Received by: (*Signature*) — Date/Time

Received for Laboratory by: (*Signature*) Tammy Heberl 3/12/11 0950

Airbill No.(s): 8695 1432 5430, ...5420

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

April 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/12/2011
Group Number: 1237088
SDG: DX062
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP09-SA5A-QC-031111 Soil	6228987
SL-112-SA5A-SB-8.5-9.5 Soil	6228988
SL-112-SA5A-SB-14.0-15.0 Soil	6228989
SL-114-SA5A-SB-4.0-5.0 Soil	6228990
SL-114-SA5A-SB-4.0-5.0MS Soil	6228991
SL-114-SA5A-SB-4.0-5.0MSD Soil	6228992
SL-114-SA5A-SB-9.0-10.0 Soil	6228993
SL-113-SA5A-SB-9.0-10.0 Soil	6228994
SL-113-SA5A-SB-14.0-15.0 Soil	6228995
SL-227-SA5B-SB-2.5-3.5 Soil	6228996

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0380	JQ	0.0255	1.22	1
11031	12378-PeCDD	40321-76-4	0.0703	JBQ	0.0236	6.08	1
11031	123478-HxCDD	39227-28-6	0.0675	JQ	0.0247	6.08	1
11031	123678-HxCDD	57653-85-7	0.0969	JB	0.0259	6.08	1
11031	123789-HxCDD	19408-74-3	0.151	JB	0.0261	6.08	1
11031	1234678-HpCDD	35822-46-9	0.701	JB	0.0289	6.08	1
11031	OCDD	3268-87-9	2.68	JB	0.0294	12.2	1
11031	2378-TCDF	51207-31-9	0.0354	JBQ	0.0237	1.22	1
11031	12378-PeCDF	57117-41-6	0.116	JBQ	0.0146	6.08	1
11031	23478-PeCDF	57117-31-4	0.190	JBQ	0.0142	6.08	1
11031	123478-HxCDF	70648-26-9	0.158	JB	0.0271	6.08	1
11031	123678-HxCDF	57117-44-9	0.171	JBQ	0.0239	6.08	1
11031	123789-HxCDF	72918-21-9	0.160	JBQ	0.0258	6.08	1
11031	234678-HxCDF	60851-34-5	0.291	JB	0.0244	6.08	1
11031	1234678-HpCDF	67562-39-4	0.857	JB	0.0169	6.08	1
11031	1234789-HpCDF	55673-89-7	0.134	JB	0.0213	6.08	1
11031	OCDF	39001-02-0	0.592	JB	0.0299	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA5A-QC-031111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA5A-QC-031111

LLI Sample # SW 6228987
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:58

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6205 SDG#: DX062-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 21:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0289	U	0.0289	1.11	1
11031	12378-PeCDD	40321-76-4	0.0254	U	0.0254	5.54	1
11031	123478-HxCDD	39227-28-6	0.0592	JQ	0.0303	5.54	1
11031	123678-HxCDD	57653-85-7	0.145	JBQ	0.0314	5.54	1
11031	123789-HxCDD	19408-74-3	0.164	JBQ	0.0313	5.54	1
11031	1234678-HpCDD	35822-46-9	3.96	JB	0.0360	5.54	1
11031	OCDD	3268-87-9	41.5	B	0.0313	11.1	1
11031	2378-TCDF	51207-31-9	0.0296	U	0.0296	1.11	1
11031	12378-PeCDF	57117-41-6	0.182	JBQ	0.0198	5.54	1
11031	23478-PeCDF	57117-31-4	0.261	JB	0.0186	5.54	1
11031	123478-HxCDF	70648-26-9	0.178	JBQ	0.0274	5.54	1
11031	123678-HxCDF	57117-44-9	0.137	JB	0.0254	5.54	1
11031	123789-HxCDF	72918-21-9	0.112	JB	0.0282	5.54	1
11031	234678-HxCDF	60851-34-5	0.261	JB	0.0262	5.54	1
11031	1234678-HpCDF	67562-39-4	0.927	JB	0.0174	5.54	1
11031	1234789-HpCDF	55673-89-7	0.109	JB	0.0202	5.54	1
11031	OCDF	39001-02-0	1.19	JB	0.0277	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-8.5-9.5

LLI Sample # SW 6228988
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:06

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6206 SDG#: DX062-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 22:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0288	J	0.0237	1.13	1
11031	12378-PeCDD	40321-76-4	0.0371	JB	0.0241	5.64	1
11031	123478-HxCDD	39227-28-6	0.0255	U	0.0255	5.64	1
11031	123678-HxCDD	57653-85-7	0.0957	JBQ	0.0247	5.64	1
11031	123789-HxCDD	19408-74-3	0.0720	JBQ	0.0207	5.64	1
11031	1234678-HpCDD	35822-46-9	0.871	JB	0.0337	5.64	1
11031	OCDD	3268-87-9	7.18	JB	0.0312	11.3	1
11031	2378-TCDF	51207-31-9	0.0231	U	0.0231	1.13	1
11031	12378-PeCDF	57117-41-6	0.0711	JBQ	0.0140	5.64	1
11031	23478-PeCDF	57117-31-4	0.125	JBQ	0.0158	5.64	1
11031	123478-HxCDF	70648-26-9	0.121	JB	0.0271	5.64	1
11031	123678-HxCDF	57117-44-9	0.0824	JB	0.0238	5.64	1
11031	123789-HxCDF	72918-21-9	0.0201	U	0.0201	5.64	1
11031	234678-HxCDF	60851-34-5	0.172	JBQ	0.0202	5.64	1
11031	1234678-HpCDF	67562-39-4	0.647	JB	0.0185	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0946	JB	0.0183	5.64	1
11031	OCDF	39001-02-0	0.500	JB	0.0301	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5A-SB-14.0-15.0

LLI Sample # SW 6228989
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 12:16

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6207 SDG#: DX062-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/01/2011 23:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0178 JQ	0.0154	1.30	1
11031	12378-PeCDD	40321-76-4	0.0233 JQ	0.0183	6.48	1
11031	123478-HxCDD	39227-28-6	0.0155 U	0.0155	6.48	1
11031	123678-HxCDD	57653-85-7	0.0149 U	0.0149	6.48	1
11031	123789-HxCDD	19408-74-3	0.0505 JBQ	0.0115	6.48	1
11031	1234678-HpCDD	35822-46-9	0.375 JB	0.0245	6.48	1
11031	OCDD	3268-87-9	2.23 JB	0.0304	13.0	1
11031	2378-TCDF	51207-31-9	0.0124 U	0.0124	1.30	1
11031	12378-PeCDF	57117-41-6	0.0216 JB	0.00764	6.48	1
11031	23478-PeCDF	57117-31-4	0.0453 JB	0.00751	6.48	1
11031	123478-HxCDF	70648-26-9	0.0190 U	0.0190	6.48	1
11031	123678-HxCDF	57117-44-9	0.0192 JBQ	0.0132	6.48	1
11031	123789-HxCDF	72918-21-9	0.00777 U	0.00777	6.48	1
11031	234678-HxCDF	60851-34-5	0.0249 JB	0.00738	6.48	1
11031	1234678-HpCDF	67562-39-4	0.0700 JB	0.0142	6.48	1
11031	1234789-HpCDF	55673-89-7	0.0217 JBQ	0.00984	6.48	1
11031	OCDF	39001-02-0	0.134 JB	0.0215	13.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228990
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 04:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	28.1		0.0259	1.30	1
11031	12378-PeCDD	40321-76-4	144		0.0311	6.48	1
11031	123478-HxCDD	39227-28-6	142		0.0733	6.48	1
11031	123678-HxCDD	57653-85-7	140	B	0.0687	6.48	1
11031	123789-HxCDD	19408-74-3	139	B	0.0595	6.48	1
11031	1234678-HpCDD	35822-46-9	138	B	0.0635	6.48	1
11031	OCDD	3268-87-9	293	B	0.0503	13.0	1
11031	2378-TCDF	51207-31-9	29.8		0.0295	1.30	1
11031	12378-PeCDF	57117-41-6	138	B	0.0278	6.48	1
11031	23478-PeCDF	57117-31-4	137	B	0.0280	6.48	1
11031	123478-HxCDF	70648-26-9	137		0.0693	6.48	1
11031	123678-HxCDF	57117-44-9	135	B	0.0504	6.48	1
11031	123789-HxCDF	72918-21-9	132	B	0.0385	6.48	1
11031	234678-HxCDF	60851-34-5	137	B	0.0370	6.48	1
11031	1234678-HpCDF	67562-39-4	134	B	0.0580	6.48	1
11031	1234789-HpCDF	55673-89-7	134	B	0.0505	6.48	1
11031	OCDF	39001-02-0	266	B	0.0522	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228991
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 05:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	22.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	28.1		0.0271	1.30	1
11031	12378-PeCDD	40321-76-4	143		0.0333	6.48	1
11031	123478-HxCDD	39227-28-6	141		0.0870	6.48	1
11031	123678-HxCDD	57653-85-7	141	B	0.0766	6.48	1
11031	123789-HxCDD	19408-74-3	137	B	0.0575	6.48	1
11031	1234678-HpCDD	35822-46-9	137	B	0.0668	6.48	1
11031	OCDD	3268-87-9	274	B	0.0532	13.0	1
11031	2378-TCDF	51207-31-9	29.4		0.0244	1.30	1
11031	12378-PeCDF	57117-41-6	138	B	0.0214	6.48	1
11031	23478-PeCDF	57117-31-4	137	B	0.0222	6.48	1
11031	123478-HxCDF	70648-26-9	137		0.133	6.48	1
11031	123678-HxCDF	57117-44-9	135	B	0.0927	6.48	1
11031	123789-HxCDF	72918-21-9	134	B	0.0479	6.48	1
11031	234678-HxCDF	60851-34-5	136	B	0.0461	6.48	1
11031	1234678-HpCDF	67562-39-4	134	B	0.0970	6.48	1
11031	1234789-HpCDF	55673-89-7	133	B	0.0554	6.48	1
11031	OCDF	39001-02-0	265	B	0.0551	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-4.0-5.0

LLI Sample # SW 6228992
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:34

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6208 SDG#: DX062-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 06:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	20.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0420	JQ	0.0298	1.26	1
11031	12378-PeCDD	40321-76-4	0.0258	U	0.0258	6.31	1
11031	123478-HxCDD	39227-28-6	0.0294	J	0.0288	6.31	1
11031	123678-HxCDD	57653-85-7	0.101	JB	0.0290	6.31	1
11031	123789-HxCDD	19408-74-3	0.0795	JB	0.0299	6.31	1
11031	1234678-HpCDD	35822-46-9	5.09	JB	0.0376	6.31	1
11031	OCDD	3268-87-9	56.4	B	0.0394	12.6	1
11031	2378-TCDF	51207-31-9	0.0413	JB	0.0287	1.26	1
11031	12378-PeCDF	57117-41-6	0.0431	JBQ	0.0163	6.31	1
11031	23478-PeCDF	57117-31-4	0.192	JB	0.0173	6.31	1
11031	123478-HxCDF	70648-26-9	0.176	JB	0.0290	6.31	1
11031	123678-HxCDF	57117-44-9	0.138	JB	0.0251	6.31	1
11031	123789-HxCDF	72918-21-9	0.0974	JB	0.0303	6.31	1
11031	234678-HxCDF	60851-34-5	0.349	JB	0.0256	6.31	1
11031	1234678-HpCDF	67562-39-4	1.04	JB	0.0170	6.31	1
11031	1234789-HpCDF	55673-89-7	0.134	JB	0.0230	6.31	1
11031	OCDF	39001-02-0	0.840	JB	0.0360	12.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: SL-114-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5A-SB-9.0-10.0

LLI Sample # SW 6228993
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 08:43

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6209 SDG#: DX062-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 00:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0596	JQ	0.0440	1.13	1
11031	12378-PeCDD	40321-76-4	0.0616	JBQ	0.0392	5.64	1
11031	123478-HxCDD	39227-28-6	0.0976	JQ	0.0365	5.64	1
11031	123678-HxCDD	57653-85-7	0.0366	U	0.0366	5.64	1
11031	123789-HxCDD	19408-74-3	0.133	JBQ	0.0355	5.64	1
11031	1234678-HpCDD	35822-46-9	4.47	JB	0.0534	5.64	1
11031	OCDD	3268-87-9	50.5	B	0.0564	11.3	1
11031	2378-TCDF	51207-31-9	0.0466	U	0.0466	1.13	1
11031	12378-PeCDF	57117-41-6	0.171	JBQ	0.0249	5.64	1
11031	23478-PeCDF	57117-31-4	0.255	JB	0.0268	5.64	1
11031	123478-HxCDF	70648-26-9	0.302	JB	0.0478	5.64	1
11031	123678-HxCDF	57117-44-9	0.158	JB	0.0368	5.64	1
11031	123789-HxCDF	72918-21-9	0.147	JBQ	0.0366	5.64	1
11031	234678-HxCDF	60851-34-5	0.332	JBQ	0.0310	5.64	1
11031	1234678-HpCDF	67562-39-4	1.20	JB	0.0272	5.64	1
11031	1234789-HpCDF	55673-89-7	0.160	JB	0.0311	5.64	1
11031	OCDF	39001-02-0	2.09	JB	0.0496	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA5A-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-113-SA5A-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-9.0-10.0

LLI Sample # SW 6228994
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:29

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6210 SDG#: DX062-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 01:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0573	U	0.0573	1.09	1
11031	12378-PeCDD	40321-76-4	0.0448	U	0.0448	5.45	1
11031	123478-HxCDD	39227-28-6	0.0345	U	0.0345	5.45	1
11031	123678-HxCDD	57653-85-7	0.0653	JBQ	0.0336	5.45	1
11031	123789-HxCDD	19408-74-3	0.0558	JBQ	0.0324	5.45	1
11031	1234678-HpCDD	35822-46-9	0.669	JB	0.0430	5.45	1
11031	OCDD	3268-87-9	4.07	JB	0.0397	10.9	1
11031	2378-TCDF	51207-31-9	0.0450	U	0.0450	1.09	1
11031	12378-PeCDF	57117-41-6	0.0616	JBQ	0.0252	5.45	1
11031	23478-PeCDF	57117-31-4	0.206	JB	0.0244	5.45	1
11031	123478-HxCDF	70648-26-9	0.194	JB	0.0486	5.45	1
11031	123678-HxCDF	57117-44-9	0.170	JBQ	0.0383	5.45	1
11031	123789-HxCDF	72918-21-9	0.0927	JB	0.0364	5.45	1
11031	234678-HxCDF	60851-34-5	0.315	JB	0.0329	5.45	1
11031	1234678-HpCDF	67562-39-4	1.15	JB	0.0291	5.45	1
11031	1234789-HpCDF	55673-89-7	0.163	JB	0.0288	5.45	1
11031	OCDF	39001-02-0	0.643	JBQ	0.0490	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA5A-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA5A-SB-14.0-15.0

LLI Sample # SW 6228995
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 15:39

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6211 SDG#: DX062-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11090001	04/02/2011 02:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11090001	03/31/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0380	J	0.0210	1.14	1
11031	12378-PeCDD	40321-76-4	0.114	JQ	0.0450	5.70	1
11031	123478-HxCDD	39227-28-6	0.0509	U	0.0509	5.70	1
11031	123678-HxCDD	57653-85-7	0.360	JB	0.0468	5.70	1
11031	123789-HxCDD	19408-74-3	0.427	JB	0.0360	5.70	1
11031	1234678-HpCDD	35822-46-9	4.73	JB	0.0470	5.70	1
11031	OCDD	3268-87-9	94.6	B	0.0353	11.4	1
11031	2378-TCDF	51207-31-9	0.0970	J	0.0217	1.14	1
11031	12378-PeCDF	57117-41-6	0.151	JB	0.0130	5.70	1
11031	23478-PeCDF	57117-31-4	0.220	JB	0.0137	5.70	1
11031	123478-HxCDF	70648-26-9	0.309	J	0.0496	5.70	1
11031	123678-HxCDF	57117-44-9	0.122	JB	0.0334	5.70	1
11031	123789-HxCDF	72918-21-9	0.257	JB	0.0176	5.70	1
11031	234678-HxCDF	60851-34-5	0.0841	JB	0.0161	5.70	1
11031	1234678-HpCDF	67562-39-4	0.482	JB	0.0295	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0917	JB	0.0194	5.70	1
11031	OCDF	39001-02-0	1.12	JB	0.0277	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-227-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
LLI Group # 1237088
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/11/2011 14:10

Submitted: 03/12/2011 09:50
Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-227-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5B-SB-2.5-3.5

LLI Sample # SW 6228996
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Collected: 03/11/2011 14:10

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Reported: 04/06/2011 22:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X6212 SDG#: DX062-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11080001	03/24/2011 15:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11080001	03/21/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11083162401A	03/24/2011 18:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11083162401A	Sample number(s): 6228987-6228996								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11080001	Sample number(s): 6228990-6228992,6228996								
2378-TCDD	0.0125 U	0.0125	1.00	ng/kg	108		67-158		
12378-PeCDD	0.0122 U	0.0122	5.00	ng/kg	113		70-142		
123478-HxCDD	0.0100 U	0.0100	5.00	ng/kg	111		70-164		
123678-HxCDD	0.0113 J	0.00930	5.00	ng/kg	110		76-134		
123789-HxCDD	0.0158 J	0.00750	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.177 J	0.0140	5.00	ng/kg	107		70-140		
OCDD	0.337 J	0.0154	10.0	ng/kg	107		78-144		
2378-TCDF	0.0101 U	0.0101	1.00	ng/kg	118		75-158		
12378-PeCDF	0.0215 J	0.00510	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0446 J	0.00540	5.00	ng/kg	107		68-160		
123478-HxCDF	0.0153 U	0.0153	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0248 J	0.0100	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0173 J	0.00620	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0230 J	0.00560	5.00	ng/kg	107		70-156		
1234678-HpCDF	0.0538 J	0.0102	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0217 J	0.00770	5.00	ng/kg	105		78-138		
OCDF	0.0956 J	0.0184	10.0	ng/kg	104		63-170		
Batch number: 11090001	Sample number(s): 6228987-6228989,6228993-6228995								
2378-TCDD	0.0299 U	0.0299	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0588 J	0.0279	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0229 U	0.0229	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0329 J	0.0229	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0392 J	0.0224	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.351 J	0.0348	5.00	ng/kg	90		70-140		
OCDD	0.634 J	0.0353	10.0	ng/kg	91		78-144		
2378-TCDF	0.0440 J	0.0269	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0506 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.169 J	0.0160	5.00	ng/kg	92		68-160		
123478-HxCDF	0.135 J	0.0277	5.00	ng/kg	93		72-134		
123678-HxCDF	0.119 J	0.0219	5.00	ng/kg	94		84-130		
123789-HxCDF	0.116 J	0.0240	5.00	ng/kg	93		78-130		
234678-HxCDF	0.255 J	0.0209	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.742 J	0.0173	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.112 J	0.0206	5.00	ng/kg	91		78-138		
OCDF	0.496 J	0.0336	10.0	ng/kg	93		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11083162401A	Sample number(s): 6228987-6228996					BKG: P228978			
Moisture Content by 160.3						22.8	22.9	1	20
Batch number: 11080001	Sample number(s): 6228990-6228992,6228996 UNSPK: 6228990								
2378-TCDD	109	108	67-158	0	25				
12378-PeCDD	111	110	70-142	1	25				
123478-HxCDD	109	109	70-164	0	25				
123678-HxCDD	108	108	76-134	1	25				
123789-HxCDD	107	106	64-162	1	25				
1234678-HpCDD	107	106	70-140	1	25				
OCDD	112	105	78-144	7	25				
2378-TCDF	115	114	75-158	1	25				
12378-PeCDF	107	107	80-134	0	25				
23478-PeCDF	106	106	68-160	0	25				
123478-HxCDF	106	106	72-134	0	25				
123678-HxCDF	104	105	84-130	0	25				
123789-HxCDF	102	103	78-130	1	25				
234678-HxCDF	105	105	70-156	0	25				
1234678-HpCDF	103	103	82-122	0	25				
1234789-HpCDF	103	103	78-138	0	25				
OCDF	103	102	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11080001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6228990	84	89	34	49	86	91
6228991	88	90	46	64	88	91
6228992	84	82	29	42	86	87
6228996	77	81	28	41	81	82
Blank	87	85	33	49	87	88
MS	88	90	46	64	88	91
MSD	84	82	29	42	86	87
OPR	84	89	37	53	85	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6228990	49	80	69	89	89	68
6228991	64	82	73	91	88	73
6228992	41	77	64	83	86	58
6228996	42	72	62	84	79	59

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Surrogate Quality Control

Blank	51	79	69	89	86	67
MS	64	82	73	91	88	73
MSD	41	77	64	83	86	58
OPR	57	79	71	87	91	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6228990	76	88	83	81	89	93
6228991	81	90	85	85	89	95
6228992	70	88	78	78	87	93
6228996	68	82	77	77	83	91
Blank	78	90	86	87	85	96
MS	81	90	85	85	89	95
MSD	70	88	78	78	87	93
OPR	81	88	84	85	83	92
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11090001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6228987	80	93	80	91	86	88
6228988	73	81	83	87	83	85
6228989	70	72	61	68	77	83
6228993	71	80	72	84	77	74
6228994	76	84	56	73	82	77
6228995	77	95	64	80	91	91
Blank	77	82	66	81	83	82
OPR	73	73	49	65	76	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6228987	84	74	66	89	86	79
6228988	78	76	69	78	78	77
6228989	64	70	60	69	78	65
6228993	80	65	58	83	78	76
6228994	74	72	68	84	83	73
6228995	79	87	84	84	92	80
Blank	79	74	68	100	78	75
OPR	62	66	59	85	76	65
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6228987	80	78	70	65	87	99
6228988	78	76	69	68	81	80
6228989	68	77	64	59	77	89
6228993	74	73	63	58	79	92
6228994	76	77	72	71	81	97
6228995	84	86	82	81	90	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1237088
Reported: 04/06/11 at 10:10 PM

Surrogate Quality Control

Blank	77	78	70	67	79	87
OPR	69	73	65	62	76	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1231088 Sample# 6209957-96

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	FIELD DUP
DUP09-SA5A-QC-031111	03.11.11	0858	SOIL	NONE	5-Encores									X	X	X											FIELD DUP
SL-112-SA5A-SB-8.5-9.5	03.11.11	1206	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-9.0	03.11.11	1203	SOIL	NONE	5-Encores									X	X	X											
SL-112-SA5A-SB-14.0-15.0	03.11.11	1216	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-112-SA5A-SB-14.5	03.11.11	1212	SOIL	NONE	5-Encores									X	X	X											
SL-114-SA5A-SB-4.0-5.MS	03.11.11	0834	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-114-SA5A-SB-4.5MS	03.11.11	0830	SOIL	NONE	15-Encores									X	X	X											MS/MSD
SL-114-SA5A-SB-9.0-10.0	03.11.11	0843	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-114-SA5A-SB-9.5	03.11.11	0840	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-9.0-10.0	03.11.11	1529	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-9.5	03.11.11	1525	SOIL	NONE	5-Encores									X	X	X											
SL-113-SA5A-SB-14.0-15.0	03.11.11	1539	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-113-SA5A-SB-14.0-14.5 MS	03.11.11	1533	SOIL	NONE	5-Encores									X	X	X											
SL-227-SA5B-SB-2.5-3.5	03.11.11	1410	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-227-SA5B-SB-3.0	03.11.11	1406	SOIL	NONE	5-Encores									X	X	X											
TB-031111	03.11.11	0800	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 03/11/2011 / 17:00 — Received for Laboratory by: (*Signature*) Tammy Helm 3/12/11 0950

Received by: (*Signature*) — Date/Time — Airbill No.(s) 8695 1432 5430, ...5420

Laboratory: Lancaster Laboratories, Inc.

-> SL-113-SA5A-SB-14.5 was updated per AMC NLM 3/10/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/07/2011
Group Number: 1228206
SDG: DX036
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
EB18-SA5B-010611 Water	6179385
SL-137-SA5B-SS-0.0-0.5 Soil	6179386
SL-063-SA5B-SB-3.0-4.0 Soil	6179387
SL-066-SA5B-SB-3.0-4.0 Soil	6179388
SL-066-SA5B-SB-3.0-4.0MS Soil	6179389
SL-066-SA5B-SB-3.0-4.0MSD Soil	6179390
DUP16-SA5B-QC-010611 Soil	6179391
SL-058-SA5B-SB-4.0-5.0 Soil	6179392
SL-051-SA5B-SB-3.0-4.0 Soil	6179393
SL-050-SA5B-SB-3.0-4.0 Soil	6179394

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **EB18-SA5B-010611 Water**
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179385
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB18 SDG#: DX036-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.809	U	0.809	2.15	1
10915	12378-PeCDD	40321-76-4	0.566	U	0.566	10.7	1
10915	123478-HxCDD	39227-28-6	0.290	U	0.290	10.7	1
10915	123678-HxCDD	57653-85-7	0.380	JBQ	0.306	10.7	1
10915	123789-HxCDD	19408-74-3	0.345	U	0.345	10.7	1
10915	1234678-HpCDD	35822-46-9	3.40	JBQ	0.660	10.7	1
10915	OCDD	3268-87-9	10.0	JB	0.660	21.5	1
10915	2378-TCDF	51207-31-9	0.491	U	0.491	2.15	1
10915	12378-PeCDF	57117-41-6	0.180	JBQ	0.169	10.7	1
10915	23478-PeCDF	57117-31-4	0.787	JBQ	0.153	10.7	1
10915	123478-HxCDF	70648-26-9	0.792	JBQ	0.259	10.7	1
10915	123678-HxCDF	57117-44-9	0.455	JBQ	0.232	10.7	1
10915	123789-HxCDF	72918-21-9	0.782	JB	0.357	10.7	1
10915	234678-HxCDF	60851-34-5	1.36	JBQ	0.280	10.7	1
10915	1234678-HpCDF	67562-39-4	4.07	JBQ	0.271	10.7	1
10915	1234789-HpCDF	55673-89-7	0.897	JBQ	0.362	10.7	1
10915	OCDF	39001-02-0	3.25	JBQ	0.575	21.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	35	25 - 164
13C12-12378-PeCDD	52	25 - 181
13C12-123478-HxCDD	49	32 - 141
13C12-123678-HxCDD	48	28 - 130
13C12-123789-HxCDD	41	28 - 130
13C12-1234678-HpCDD	49	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	42	24 - 169
13C12-12378-PeCDF	55	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	39	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB18-SA5B-010611 Water**
SSFL Area IV Collocated Soil Sampling
EB18-SA5B-010611

LLI Sample # WW 6179385
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 13:00

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB18 SDG#: DX036-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021002	02/02/2011 19:06	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11021002	01/22/2011 07:30	Deborah M Zimmerman	1

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Analysis Report

Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179386
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL137 SDG#: DX036-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179386
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL137 SDG#: DX036-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0387	U	0.0387	1.10	1
11031	12378-PeCDD	40321-76-4	0.147	JQ	0.0409	5.51	1
11031	123478-HxCDD	39227-28-6	0.206	JQ	0.0601	5.51	1
11031	123678-HxCDD	57653-85-7	0.690	JQ	0.0603	5.51	1
11031	123789-HxCDD	19408-74-3	0.444	JBQ	0.0602	5.51	1
11031	1234678-HpCDD	35822-46-9	25.1	B	0.0854	5.51	1
11031	OCDD	3268-87-9	364	B	0.0899	11.0	1
11031	2378-TCDF	51207-31-9	0.0714	JQ	0.0534	1.10	1
11031	12378-PeCDF	57117-41-6	0.307	JB	0.0337	5.51	1
11031	23478-PeCDF	57117-31-4	0.254	JBQ	0.0323	5.51	1
11031	123478-HxCDF	70648-26-9	0.457	JBQ	0.0486	5.51	1
11031	123678-HxCDF	57117-44-9	0.360	JB	0.0395	5.51	1
11031	123789-HxCDF	72918-21-9	0.282	JB	0.0410	5.51	1
11031	234678-HxCDF	60851-34-5	0.373	JB	0.0374	5.51	1
11031	1234678-HpCDF	67562-39-4	3.87	JB	0.0391	5.51	1
11031	1234789-HpCDF	55673-89-7	0.465	JB	0.0406	5.51	1
11031	OCDF	39001-02-0	8.01	JB	0.0426	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179386
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL137 SDG#: DX036-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-137-SA5B-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5B-SS-0.0-0.5

LLI Sample # SW 6179386
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 10:58

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL137 SDG#: DX036-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 14:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179387
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL063 SDG#: DX036-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-063-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179387
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL063 SDG#: DX036-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	U	0.0390	1.08	1
11031	12378-PeCDD	40321-76-4	0.0536	JQ	0.0400	5.42	1
11031	123478-HxCDD	39227-28-6	0.0343	U	0.0343	5.42	1
11031	123678-HxCDD	57653-85-7	0.0351	U	0.0351	5.42	1
11031	123789-HxCDD	19408-74-3	0.0872	JB	0.0334	5.42	1
11031	1234678-HpCDD	35822-46-9	1.53	JB	0.0622	5.42	1
11031	OCDD	3268-87-9	25.4	B	0.0427	10.8	1
11031	2378-TCDF	51207-31-9	0.0408	U	0.0408	1.08	1
11031	12378-PeCDF	57117-41-6	0.0412	JBQ	0.0203	5.42	1
11031	23478-PeCDF	57117-31-4	0.121	JBQ	0.0233	5.42	1
11031	123478-HxCDF	70648-26-9	0.112	JBQ	0.0272	5.42	1
11031	123678-HxCDF	57117-44-9	0.0668	JB	0.0206	5.42	1
11031	123789-HxCDF	72918-21-9	0.0822	JBQ	0.0329	5.42	1
11031	234678-HxCDF	60851-34-5	0.0592	JBQ	0.0237	5.42	1
11031	1234678-HpCDF	67562-39-4	0.265	JBQ	0.0216	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0585	JBQ	0.0442	5.42	1
11031	OCDF	39001-02-0	0.414	JBQ	0.0589	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179387
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL063 SDG#: DX036-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-063-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-063-SA5B-SB-3.0-4.0

LLI Sample # SW 6179387
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 12:07

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL063 SDG#: DX036-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 15:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179388
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179388
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	U	0.0382	1.10	1
11031	12378-PeCDD	40321-76-4	0.0311	U	0.0311	5.51	1
11031	123478-HxCDD	39227-28-6	0.0316	U	0.0316	5.51	1
11031	123678-HxCDD	57653-85-7	0.0899	J	0.0312	5.51	1
11031	123789-HxCDD	19408-74-3	0.0938	JBQ	0.0295	5.51	1
11031	1234678-HpCDD	35822-46-9	0.517	JBQ	0.0446	5.51	1
11031	OCDD	3268-87-9	4.53	JB	0.0449	11.0	1
11031	2378-TCDF	51207-31-9	0.0328	U	0.0328	1.10	1
11031	12378-PeCDF	57117-41-6	0.0321	JBQ	0.0192	5.51	1
11031	23478-PeCDF	57117-31-4	0.0658	JBQ	0.0202	5.51	1
11031	123478-HxCDF	70648-26-9	0.0734	JBQ	0.0228	5.51	1
11031	123678-HxCDF	57117-44-9	0.0713	JBQ	0.0193	5.51	1
11031	123789-HxCDF	72918-21-9	0.0519	JBQ	0.0248	5.51	1
11031	234678-HxCDF	60851-34-5	0.0875	JBQ	0.0204	5.51	1
11031	1234678-HpCDF	67562-39-4	0.308	JB	0.0186	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0405	JBQ	0.0259	5.51	1
11031	OCDF	39001-02-0	0.319	JB	0.0491	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179388
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179388
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 16:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179389
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179389
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.7		0.0891	1.10	1
11031	12378-PeCDD	40321-76-4	119		0.0912	5.51	1
11031	123478-HxCDD	39227-28-6	119		0.0839	5.51	1
11031	123678-HxCDD	57653-85-7	121		0.0903	5.51	1
11031	123789-HxCDD	19408-74-3	116	B	0.0819	5.51	1
11031	1234678-HpCDD	35822-46-9	118	B	0.0927	5.51	1
11031	OCDD	3268-87-9	233	B	0.0794	11.0	1
11031	2378-TCDF	51207-31-9	26.4		0.0936	1.10	1
11031	12378-PeCDF	57117-41-6	120	B	0.0563	5.51	1
11031	23478-PeCDF	57117-31-4	121	B	0.0613	5.51	1
11031	123478-HxCDF	70648-26-9	115	B	0.0850	5.51	1
11031	123678-HxCDF	57117-44-9	114	B	0.0665	5.51	1
11031	123789-HxCDF	72918-21-9	113	B	0.0978	5.51	1
11031	234678-HxCDF	60851-34-5	117	B	0.0779	5.51	1
11031	1234678-HpCDF	67562-39-4	113	B	0.0508	5.51	1
11031	1234789-HpCDF	55673-89-7	117	B	0.0894	5.51	1
11031	OCDF	39001-02-0	233	B	0.111	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179389
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179389
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 17:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179390
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179390
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.7		0.0753	1.10	1
11031	12378-PeCDD	40321-76-4	118		0.0675	5.51	1
11031	123478-HxCDD	39227-28-6	118		0.0851	5.51	1
11031	123678-HxCDD	57653-85-7	119		0.0884	5.51	1
11031	123789-HxCDD	19408-74-3	117	B	0.0863	5.51	1
11031	1234678-HpCDD	35822-46-9	118	B	0.0814	5.51	1
11031	OCDD	3268-87-9	234	B	0.0669	11.0	1
11031	2378-TCDF	51207-31-9	25.9		0.0798	1.10	1
11031	12378-PeCDF	57117-41-6	121	B	0.0385	5.51	1
11031	23478-PeCDF	57117-31-4	123	B	0.0437	5.51	1
11031	123478-HxCDF	70648-26-9	117	B	0.0693	5.51	1
11031	123678-HxCDF	57117-44-9	117	B	0.0566	5.51	1
11031	123789-HxCDF	72918-21-9	116	B	0.0827	5.51	1
11031	234678-HxCDF	60851-34-5	118	B	0.0656	5.51	1
11031	1234678-HpCDF	67562-39-4	117	B	0.0480	5.51	1
11031	1234789-HpCDF	55673-89-7	115	B	0.0770	5.51	1
11031	OCDF	39001-02-0	233	B	0.0737	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179390
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5B-SB-3.0-4.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5B-SB-3.0-4.0

LLI Sample # SW 6179390
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:38

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL066 SDG#: DX036-04MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 18:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179391
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP16 SDG#: DX036-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179391
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP16 SDG#: DX036-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0398	U	0.0398	1.08	1
11031	12378-PeCDD	40321-76-4	0.192	JQ	0.0343	5.40	1
11031	123478-HxCDD	39227-28-6	0.128	J	0.0313	5.40	1
11031	123678-HxCDD	57653-85-7	0.186	J	0.0323	5.40	1
11031	123789-HxCDD	19408-74-3	0.274	JB	0.0306	5.40	1
11031	1234678-HpCDD	35822-46-9	0.383	JB	0.0440	5.40	1
11031	OCDD	3268-87-9	1.40	JB	0.0314	10.8	1
11031	2378-TCDF	51207-31-9	0.0428	U	0.0428	1.08	1
11031	12378-PeCDF	57117-41-6	0.137	JBQ	0.0189	5.40	1
11031	23478-PeCDF	57117-31-4	0.204	JBQ	0.0210	5.40	1
11031	123478-HxCDF	70648-26-9	0.194	JBQ	0.0315	5.40	1
11031	123678-HxCDF	57117-44-9	0.146	JB	0.0239	5.40	1
11031	123789-HxCDF	72918-21-9	0.223	JB	0.0352	5.40	1
11031	234678-HxCDF	60851-34-5	0.215	JBQ	0.0279	5.40	1
11031	1234678-HpCDF	67562-39-4	0.343	JB	0.0139	5.40	1
11031	1234789-HpCDF	55673-89-7	0.232	JB	0.0284	5.40	1
11031	OCDF	39001-02-0	0.590	JB	0.0610	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179391
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP16 SDG#: DX036-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP16-SA5B-QC-010611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP16-SA5B-QC-010611

LLI Sample # SW 6179391
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 09:40

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP16 SDG#: DX036-05FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 19:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179392
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL058 SDG#: DX036-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179392
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL058 SDG#: DX036-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0342	U	0.0342	1.11	1
11031	12378-PeCDD	40321-76-4	0.0407	JQ	0.0331	5.54	1
11031	123478-HxCDD	39227-28-6	0.0385	JQ	0.0282	5.54	1
11031	123678-HxCDD	57653-85-7	0.138	JQ	0.0307	5.54	1
11031	123789-HxCDD	19408-74-3	0.0456	JB	0.0283	5.54	1
11031	1234678-HpCDD	35822-46-9	2.76	JB	0.0446	5.54	1
11031	OCDD	3268-87-9	29.8	B	0.0364	11.1	1
11031	2378-TCDF	51207-31-9	0.0408	U	0.0408	1.11	1
11031	12378-PeCDF	57117-41-6	0.0679	JBQ	0.0168	5.54	1
11031	23478-PeCDF	57117-31-4	0.126	JBQ	0.0198	5.54	1
11031	123478-HxCDF	70648-26-9	0.0775	JB	0.0224	5.54	1
11031	123678-HxCDF	57117-44-9	0.0354	JB	0.0175	5.54	1
11031	123789-HxCDF	72918-21-9	0.0539	JBQ	0.0267	5.54	1
11031	234678-HxCDF	60851-34-5	0.104	JBQ	0.0212	5.54	1
11031	1234678-HpCDF	67562-39-4	0.448	JB	0.0187	5.54	1
11031	1234789-HpCDF	55673-89-7	0.100	JB	0.0362	5.54	1
11031	OCDF	39001-02-0	1.13	JB	0.0539	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179392
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL058 SDG#: DX036-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5B-SB-4.0-5.0

LLI Sample # SW 6179392
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:47

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL058 SDG#: DX036-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 20:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179393
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL051 SDG#: DX036-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179393
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL051 SDG#: DX036-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0433	U	0.0433	1.17	1
11031	12378-PeCDD	40321-76-4	0.0393	JQ	0.0360	5.84	1
11031	123478-HxCDD	39227-28-6	0.0311	U	0.0311	5.84	1
11031	123678-HxCDD	57653-85-7	0.0395	JQ	0.0318	5.84	1
11031	123789-HxCDD	19408-74-3	0.0521	JB	0.0300	5.84	1
11031	1234678-HpCDD	35822-46-9	0.557	JB	0.0499	5.84	1
11031	OCDD	3268-87-9	5.79	JBQ	0.0374	11.7	1
11031	2378-TCDF	51207-31-9	0.0729	JQ	0.0485	1.17	1
11031	12378-PeCDF	57117-41-6	0.0455	JBQ	0.0203	5.84	1
11031	23478-PeCDF	57117-31-4	0.0771	JBQ	0.0230	5.84	1
11031	123478-HxCDF	70648-26-9	0.113	JBQ	0.0236	5.84	1
11031	123678-HxCDF	57117-44-9	0.0318	JBQ	0.0178	5.84	1
11031	123789-HxCDF	72918-21-9	0.0551	JBQ	0.0279	5.84	1
11031	234678-HxCDF	60851-34-5	0.0462	JB	0.0215	5.84	1
11031	1234678-HpCDF	67562-39-4	0.243	JB	0.0165	5.84	1
11031	1234789-HpCDF	55673-89-7	0.0492	JBQ	0.0352	5.84	1
11031	OCDF	39001-02-0	0.482	JBQ	0.0786	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	105	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	101	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	110	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	102	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	129	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179393
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL051 SDG#: DX036-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5B-SB-3.0-4.0

LLI Sample # SW 6179393
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 14:45

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL051 SDG#: DX036-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	01/31/2011 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179394
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL050 SDG#: DX036-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179394
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL050 SDG#: DX036-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0437	U	0.0437	1.09	1
11031	12378-PeCDD	40321-76-4	0.0836	JQ	0.0464	5.47	1
11031	123478-HxCDD	39227-28-6	0.0332	U	0.0332	5.47	1
11031	123678-HxCDD	57653-85-7	0.0801	JQ	0.0364	5.47	1
11031	123789-HxCDD	19408-74-3	0.0534	JBQ	0.0347	5.47	1
11031	1234678-HpCDD	35822-46-9	0.298	JBQ	0.0553	5.47	1
11031	OCDD	3268-87-9	0.865	JB	0.0395	10.9	1
11031	2378-TCDF	51207-31-9	0.0491	U	0.0491	1.09	1
11031	12378-PeCDF	57117-41-6	0.128	JBQ	0.0226	5.47	1
11031	23478-PeCDF	57117-31-4	0.153	JBQ	0.0256	5.47	1
11031	123478-HxCDF	70648-26-9	0.0949	JB	0.0246	5.47	1
11031	123678-HxCDF	57117-44-9	0.0686	JBQ	0.0190	5.47	1
11031	123789-HxCDF	72918-21-9	0.114	JBQ	0.0316	5.47	1
11031	234678-HxCDF	60851-34-5	0.111	JBQ	0.0236	5.47	1
11031	1234678-HpCDF	67562-39-4	0.184	JB	0.0158	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0330	U	0.0330	5.47	1
11031	OCDF	39001-02-0	0.347	JB	0.0775	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179394
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL050 SDG#: DX036-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5B-SB-3.0-4.0

LLI Sample # SW 6179394
LLI Group # 1228206
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/06/2011 15:44

Submitted: 01/07/2011 09:00
Reported: 02/13/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL050 SDG#: DX036-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11021001	02/01/2011 01:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11021001	01/21/2011 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228206
Reported: 02/13/11 at 09:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11012162401B	Sample number(s): 6179386,6179388-6179392								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11019162401A	Sample number(s): 6179387,6179393-6179394								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11021001	Sample number(s): 6179386-6179394								
2378-TCDD	0.0354 U	0.0354	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0366 U	0.0366	5.00	ng/kg	110		70-142		
123478-HxCDD	0.0249 U	0.0249	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0264 U	0.0264	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0280 J	0.0250	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.322 J	0.0353	5.00	ng/kg	108		70-140		
OCDD	0.950 J	0.0305	10.0	ng/kg	107		78-144		
2378-TCDF	0.0381 U	0.0381	1.00	ng/kg	123		75-158		
12378-PeCDF	0.0396 J	0.0179	5.00	ng/kg	110		80-134		
23478-PeCDF	0.111 J	0.0206	5.00	ng/kg	111		68-160		
123478-HxCDF	0.107 J	0.0271	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0673 J	0.0178	5.00	ng/kg	105		84-130		
123789-HxCDF	0.0637 J	0.0274	5.00	ng/kg	105		78-130		
234678-HxCDF	0.106 J	0.0214	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.440 J	0.0167	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0720 J	0.0310	5.00	ng/kg	106		78-138		
OCDF	0.468 J	0.0558	10.0	ng/kg	107		63-170		
Batch number: 11021002	Sample number(s): 6179385								
2378-TCDD	0.269 U	0.269	2.00	pg/l	88		67-158		
12378-PeCDD	0.587 J	0.282	10.0	pg/l	92		70-142		
123478-HxCDD	0.280 J	0.207	10.0	pg/l	96		70-164		
123678-HxCDD	0.361 J	0.211	10.0	pg/l	97		76-134		
123789-HxCDD	0.721 J	0.201	10.0	pg/l	98		64-162		
1234678-HpCDD	3.45 J	0.381	10.0	pg/l	101		70-140		
OCDD	5.60 J	0.323	20.0	pg/l	110		78-144		
2378-TCDF	0.204 U	0.204	2.00	pg/l	94		75-158		
12378-PeCDF	0.543 J	0.107	10.0	pg/l	97		80-134		
23478-PeCDF	0.960 J	0.100	10.0	pg/l	95		68-160		
123478-HxCDF	0.861 J	0.195	10.0	pg/l	99		72-134		
123678-HxCDF	0.712 J	0.179	10.0	pg/l	100		84-130		
123789-HxCDF	0.990 J	0.182	10.0	pg/l	97		78-130		
234678-HxCDF	1.45 J	0.170	10.0	pg/l	98		70-156		
1234678-HpCDF	6.10 J	0.165	10.0	pg/l	103		82-122		
1234789-HpCDF	1.02 J	0.191	10.0	pg/l	104		78-138		
OCDF	3.47 J	0.287	20.0	pg/l	109		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228206
Reported: 02/13/11 at 09:47 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11012162401B	Sample number(s): 6179386,6179388-6179392 BKG: P179369								
28a Moisture Content by 160.3						9.2	9.0	1	20
Batch number: 11019162401A	Sample number(s): 6179387,6179393-6179394 BKG: P183549								
28a Moisture Content by 160.3						13.8	13.9	1	20
Batch number: 11021001	Sample number(s): 6179386-6179394 UNSPK: 6179388								
2378-TCDD	108	108	67-158	0	25				
12378-PeCDD	108	107	70-142	0	25				
123478-HxCDD	108	107	70-164	1	25				
123678-HxCDD	110	108	76-134	2	25				
123789-HxCDD	105	106	64-162	1	25				
1234678-HpCDD	107	107	70-140	1	25				
OCDD	104	104	78-144	0	25				
2378-TCDF	120	118	75-158	2	25				
12378-PeCDF	109	110	80-134	1	25				
23478-PeCDF	110	112	68-160	2	25				
123478-HxCDF	105	106	72-134	1	25				
123678-HxCDF	104	106	84-130	3	25				
123789-HxCDF	103	105	78-130	2	25				
234678-HxCDF	106	107	70-156	1	25				
1234678-HpCDF	103	106	82-122	3	25				
1234789-HpCDF	106	105	78-138	1	25				
OCDF	106	106	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11021001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6179386	72	78	57	68	73	79
6179387	69	76	65	82	72	62
6179388	67	73	65	73	70	70
6179389	57	61	59	74	62	61
6179390	64	76	70	84	73	70
6179391	68	75	68	86	73	67
6179392	72	75	69	88	73	69
6179393	85	89	80	102	84	76
6179394	69	71	68	84	70	63
Blank	75	71	57	82	70	65

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228206
Reported: 02/13/11 at 09:47 PM

Surrogate Quality Control

MS	57	61	59	74	62	61
MSD	64	76	70	84	73	70
OPR	63	62	59	77	63	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6179386	67	80	76	81	81	72
6179387	102	64	60	85	88	78
6179388	82	72	68	81	78	69
6179389	88	61	60	73	68	66
6179390	97	76	72	85	83	75
6179391	110	66	62	86	87	78
6179392	108	68	65	88	86	80
6179393	129	75	69	105	105	92
6179394	101	62	57	88	74	77
Blank	96	68	66	93	79	77
MS	88	61	60	73	68	66
MSD	97	76	72	85	83	75
OPR	90	57	56	82	67	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6179386	72	72	78	77	73	79
6179387	77	77	81	82	69	91
6179388	69	71	76	75	69	80
6179389	64	67	73	74	57	73
6179390	75	75	83	83	68	88
6179391	78	80	87	88	69	91
6179392	78	81	87	88	70	93
6179393	93	93	101	101	82	110
6179394	74	75	79	79	70	86
Blank	79	80	88	89	68	87
MS	64	67	73	74	57	73
MSD	75	75	83	83	68	88
OPR	70	72	74	73	61	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11021002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6179385	35	55	53	57	46	39
Blank	69	72	70	74	75	79
OPR	67	71	72	77	73	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6179385	58	52	60	80	52	49

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228206
Reported: 02/13/11 at 09:47 PM

Surrogate Quality Control

Blank	73	76	83	96	69	69
OPR	74	76	81	83	69	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6179385	48	41	49	50	42	55
Blank	72	70	73	77	71	73
OPR	70	69	73	75	68	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1228206 6179385-94

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs: *VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	SECONDARY FOR ALL LOCATIONS: **pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB18-SA5B-010611	01.06.1	1300	WATER	NONE	4 1L AMBER BOTTLES			X	X	X																		SUBSURFACE TOOL RINSATE
EB18-SA5B-010611	01.06.1	1300	WATER	NONE	1 - 500 mL POLY		X					X																	SUBSURFACE TOOL RINSATE
EB18-SA5B-010611	01.06.1	1300	WATER	HNO3	1 - 500 mL POLY	X																							SUBSURFACE TOOL RINSATE
SL-137-SA5B-SS-0.0-0.5	01.06.1	1058	SOIL	NONE	1-16 oz. jar & 1-6" sleeve	X	X	X	X	X	X	X		X	X														
SL-063-SA5B-SB-3.0-4.0	01.06.1	1207	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-063-SA5B-SB-3.5	01.06.1	1205	SOIL	NONE	5 ENCORES											X	X	X											
SL-066-SA5B-SB-3.0-4.0MS	01.06.1	0938	SOIL	NONE	6 16 oz. jars	X	X	X	X	X	X	X																	MS/MSD
SL-066-SA5B-SB-3.5MS	01.06.1	0933	SOIL	NONE	12 ENCORES											X	X												MS/MSD
DUP18-SA5B-QC-010611	01.06.1	0940	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	FIELD DUPLICATE #1
DUP18-SA5B-QC-010611	01.06.1	0940	SOIL	NONE	4 ENCORES											X	X												FIELD DUPLICATE #1
SL-058-SA5B-SB-4.5	01.06.1	1543	SOIL	NONE	4 ENCORES											X	X												
SL-058-SA5B-SB-4.0-5.0	01.06.1	1547	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X				X	X												
SL-051-SA5B-SB-3.5	01.06.1	1440	SOIL	NONE	5 ENCORES											X	X	X											
SL-051-SA5B-SB-3.0-4.0	01.06.1	1445	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-050-SA5B-SB-3.5	01.06.1	1540	SOIL	NONE	5 ENCORES											X	X	X											
SL-050-SA5B-SB-3.0-4.0	01.06.1	1544	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X																	
TB-010611	01.06.1	1230	WATER	HCl	4-40 mL VOA VIALS											X	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
	1/6/2011, 16:20		1/7/11 900
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1432 2810, ...2821	

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/13/2011
Group Number: 1228868
SDG: DX038
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-099-SA5B-SB-4.0-5.0 Soil	6182714
SL-100-SA5B-SB-4.0-5.0 Soil	6182715
SL-087-SA5B-SB-3.0-4.0 Soil	6182716
SL-085-SA5B-SB-3.0-4.0 Soil	6182717
SL-088-SA5B-SB-3.0-4.0 Soil	6182718
SL-089-SA5B-SB-4.0-5.0 Soil	6182719
SL-090-SA5B-SB-2.5-3.5 Soil	6182720
SL-091-SA5B-SB-4.0-5.0 Soil	6182721
SL-086-SA5B-SB-4.0-5.0 Soil	6182722
SL-094-SA5B-SB-4.0-5.0 Soil	6182723
SL-093-SA5B-SB-3.0-4.0 Soil	6182724

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182714
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX038-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182714
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX038-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0427	U	0.0427	1.15	1
11031	12378-PeCDD	40321-76-4	0.0419	U	0.0419	5.73	1
11031	123478-HxCDD	39227-28-6	0.0341	U	0.0341	5.73	1
11031	123678-HxCDD	57653-85-7	0.0338	U	0.0338	5.73	1
11031	123789-HxCDD	19408-74-3	0.0324	U	0.0324	5.73	1
11031	1234678-HpCDD	35822-46-9	0.253	JB	0.0465	5.73	1
11031	OCDD	3268-87-9	1.35	JB	0.0450	11.5	1
11031	2378-TCDF	51207-31-9	0.0490	U	0.0490	1.15	1
11031	12378-PeCDF	57117-41-6	0.0233	JQ	0.0228	5.73	1
11031	23478-PeCDF	57117-31-4	0.0737	JQ	0.0233	5.73	1
11031	123478-HxCDF	70648-26-9	0.0828	JB	0.0310	5.73	1
11031	123678-HxCDF	57117-44-9	0.0563	JBQ	0.0244	5.73	1
11031	123789-HxCDF	72918-21-9	0.0269	U	0.0269	5.73	1
11031	234678-HxCDF	60851-34-5	0.0541	JBQ	0.0234	5.73	1
11031	1234678-HpCDF	67562-39-4	0.284	JBQ	0.0257	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0511	JBQ	0.0344	5.73	1
11031	OCDF	39001-02-0	0.266	JBQ	0.0719	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182714
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX038-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5B-SB-4.0-5.0

LLI Sample # SW 6182714
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX038-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 00:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182715
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX038-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182715
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX038-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0367	JQ	0.0350	1.10	1
11031	12378-PeCDD	40321-76-4	0.0336	U	0.0336	5.48	1
11031	123478-HxCDD	39227-28-6	0.0355	U	0.0355	5.48	1
11031	123678-HxCDD	57653-85-7	0.103	J	0.0349	5.48	1
11031	123789-HxCDD	19408-74-3	0.0675	J	0.0337	5.48	1
11031	1234678-HpCDD	35822-46-9	1.06	JB	0.0568	5.48	1
11031	OCDD	3268-87-9	6.10	JB	0.0276	11.0	1
11031	2378-TCDF	51207-31-9	0.0334	JQ	0.0329	1.10	1
11031	12378-PeCDF	57117-41-6	0.0295	JQ	0.0190	5.48	1
11031	23478-PeCDF	57117-31-4	0.0513	JQ	0.0185	5.48	1
11031	123478-HxCDF	70648-26-9	0.0561	JBQ	0.0288	5.48	1
11031	123678-HxCDF	57117-44-9	0.0717	JBQ	0.0227	5.48	1
11031	123789-HxCDF	72918-21-9	0.0342	JBQ	0.0252	5.48	1
11031	234678-HxCDF	60851-34-5	0.0839	JBQ	0.0218	5.48	1
11031	1234678-HpCDF	67562-39-4	0.382	JB	0.0203	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0597	JBQ	0.0261	5.48	1
11031	OCDF	39001-02-0	0.316	JB	0.0559	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182715
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX038-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-100-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5B-SB-4.0-5.0

LLI Sample # SW 6182715
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:22

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX038-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 01:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182716
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX038-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182716
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX038-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0388	U	0.0388	1.08	1
11031	12378-PeCDD	40321-76-4	0.0377	U	0.0377	5.38	1
11031	123478-HxCDD	39227-28-6	0.0244	U	0.0244	5.38	1
11031	123678-HxCDD	57653-85-7	0.0390	JQ	0.0250	5.38	1
11031	123789-HxCDD	19408-74-3	0.0239	U	0.0239	5.38	1
11031	1234678-HpCDD	35822-46-9	0.335	JBQ	0.0423	5.38	1
11031	OCDD	3268-87-9	1.10	JB	0.0340	10.8	1
11031	2378-TCDF	51207-31-9	0.0378	U	0.0378	1.08	1
11031	12378-PeCDF	57117-41-6	0.0396	JQ	0.0186	5.38	1
11031	23478-PeCDF	57117-31-4	0.0969	J	0.0178	5.38	1
11031	123478-HxCDF	70648-26-9	0.0494	JB	0.0214	5.38	1
11031	123678-HxCDF	57117-44-9	0.0478	JB	0.0168	5.38	1
11031	123789-HxCDF	72918-21-9	0.0358	JB	0.0185	5.38	1
11031	234678-HxCDF	60851-34-5	0.0917	JBQ	0.0173	5.38	1
11031	1234678-HpCDF	67562-39-4	0.383	JB	0.0197	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0389	JBQ	0.0240	5.38	1
11031	OCDF	39001-02-0	0.332	JBQ	0.0538	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	82	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182716
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX038-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SB-3.0-4.0

LLI Sample # SW 6182716
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 09:08

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX038-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 02:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182717
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX038-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-085-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182717
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX038-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0494	U	0.0494	1.08	1
11031	12378-PeCDD	40321-76-4	0.0483	U	0.0483	5.42	1
11031	123478-HxCDD	39227-28-6	0.0421	JQ	0.0353	5.42	1
11031	123678-HxCDD	57653-85-7	0.0511	JQ	0.0355	5.42	1
11031	123789-HxCDD	19408-74-3	0.0533	JQ	0.0343	5.42	1
11031	1234678-HpCDD	35822-46-9	0.299	JB	0.0519	5.42	1
11031	OCDD	3268-87-9	1.00	JB	0.0431	10.8	1
11031	2378-TCDF	51207-31-9	0.0522	U	0.0522	1.08	1
11031	12378-PeCDF	57117-41-6	0.0257	U	0.0257	5.42	1
11031	23478-PeCDF	57117-31-4	0.0604	JQ	0.0260	5.42	1
11031	123478-HxCDF	70648-26-9	0.0313	U	0.0313	5.42	1
11031	123678-HxCDF	57117-44-9	0.0814	JB	0.0251	5.42	1
11031	123789-HxCDF	72918-21-9	0.0607	JB	0.0290	5.42	1
11031	234678-HxCDF	60851-34-5	0.125	JBQ	0.0254	5.42	1
11031	1234678-HpCDF	67562-39-4	0.337	JB	0.0349	5.42	1
11031	1234789-HpCDF	55673-89-7	0.127	JB	0.0484	5.42	1
11031	OCDF	39001-02-0	0.383	JBQ	0.0694	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182717
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX038-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-085-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SB-3.0-4.0

LLI Sample # SW 6182717
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 11:35

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX038-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 06:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182718
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX038-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182718
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX038-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0450	U	0.0450	1.12	1
11031	12378-PeCDD	40321-76-4	0.222	JQ	0.0538	5.58	1
11031	123478-HxCDD	39227-28-6	0.268	J	0.0666	5.58	1
11031	123678-HxCDD	57653-85-7	2.41	J	0.0658	5.58	1
11031	123789-HxCDD	19408-74-3	1.14	J	0.0629	5.58	1
11031	1234678-HpCDD	35822-46-9	22.2	B	0.0743	5.58	1
11031	OCDD	3268-87-9	204	B	0.0711	11.2	1
11031	2378-TCDF	51207-31-9	0.0924	J	0.0840	1.12	1
11031	12378-PeCDF	57117-41-6	0.577	J	0.0377	5.58	1
11031	23478-PeCDF	57117-31-4	0.470	J	0.0363	5.58	1
11031	123478-HxCDF	70648-26-9	0.556	JB	0.0491	5.58	1
11031	123678-HxCDF	57117-44-9	0.391	JB	0.0431	5.58	1
11031	123789-HxCDF	72918-21-9	0.210	JBQ	0.0460	5.58	1
11031	234678-HxCDF	60851-34-5	0.347	JBQ	0.0417	5.58	1
11031	1234678-HpCDF	67562-39-4	3.16	JB	0.0509	5.58	1
11031	1234789-HpCDF	55673-89-7	0.354	JB	0.0606	5.58	1
11031	OCDF	39001-02-0	6.13	JB	0.0662	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182718
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX038-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5B-SB-3.0-4.0

LLI Sample # SW 6182718
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 10:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX038-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 07:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182719
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX038-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182719
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX038-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0354	U	0.0354	1.15	1
11031	12378-PeCDD	40321-76-4	0.0331	U	0.0331	5.75	1
11031	123478-HxCDD	39227-28-6	0.0290	U	0.0290	5.75	1
11031	123678-HxCDD	57653-85-7	0.0302	U	0.0302	5.75	1
11031	123789-HxCDD	19408-74-3	0.0456	JQ	0.0278	5.75	1
11031	1234678-HpCDD	35822-46-9	0.309	JB	0.0500	5.75	1
11031	OCDD	3268-87-9	1.40	JB	0.0608	11.5	1
11031	2378-TCDF	51207-31-9	0.0432	U	0.0432	1.15	1
11031	12378-PeCDF	57117-41-6	0.0210	U	0.0210	5.75	1
11031	23478-PeCDF	57117-31-4	0.0793	JQ	0.0209	5.75	1
11031	123478-HxCDF	70648-26-9	0.0719	JB	0.0239	5.75	1
11031	123678-HxCDF	57117-44-9	0.0520	JBQ	0.0202	5.75	1
11031	123789-HxCDF	72918-21-9	0.0434	JB	0.0222	5.75	1
11031	234678-HxCDF	60851-34-5	0.0928	JBQ	0.0198	5.75	1
11031	1234678-HpCDF	67562-39-4	0.319	JBQ	0.0244	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0446	JB	0.0309	5.75	1
11031	OCDF	39001-02-0	0.349	JB	0.0610	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182719
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX038-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA5B-SB-4.0-5.0

LLI Sample # SW 6182719
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 14:04

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX038-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 08:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182720
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX038-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182720
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX038-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0349	JQ	0.0349	1.09	1
11031	12378-PeCDD	40321-76-4	0.0298	U	0.0298	5.46	1
11031	123478-HxCDD	39227-28-6	0.0304	JQ	0.0275	5.46	1
11031	123678-HxCDD	57653-85-7	0.102	J	0.0285	5.46	1
11031	123789-HxCDD	19408-74-3	0.0954	J	0.0266	5.46	1
11031	1234678-HpCDD	35822-46-9	1.93	JB	0.0475	5.46	1
11031	OCDD	3268-87-9	21.5	B	0.0498	10.9	1
11031	2378-TCDF	51207-31-9	0.0329	U	0.0329	1.09	1
11031	12378-PeCDF	57117-41-6	0.0678	J	0.0178	5.46	1
11031	23478-PeCDF	57117-31-4	0.0743	JQ	0.0168	5.46	1
11031	123478-HxCDF	70648-26-9	0.0846	JB	0.0232	5.46	1
11031	123678-HxCDF	57117-44-9	0.0780	JBQ	0.0187	5.46	1
11031	123789-HxCDF	72918-21-9	0.0690	JB	0.0217	5.46	1
11031	234678-HxCDF	60851-34-5	0.107	JB	0.0185	5.46	1
11031	1234678-HpCDF	67562-39-4	0.472	JBQ	0.0199	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0474	JBQ	0.0283	5.46	1
11031	OCDF	39001-02-0	1.04	JB	0.0552	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	102	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182720
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX038-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA5B-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA5B-SB-2.5-3.5

LLI Sample # SW 6182720
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 13:05

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX038-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 09:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182721
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX038-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182721
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX038-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0666	JQ	0.0412	1.14	1
11031	12378-PeCDD	40321-76-4	0.110	JQ	0.0392	5.69	1
11031	123478-HxCDD	39227-28-6	0.0321	U	0.0321	5.69	1
11031	123678-HxCDD	57653-85-7	0.0714	JQ	0.0337	5.69	1
11031	123789-HxCDD	19408-74-3	0.0328	U	0.0328	5.69	1
11031	1234678-HpCDD	35822-46-9	0.288	JB	0.0444	5.69	1
11031	OCDD	3268-87-9	0.882	JB	0.0499	11.4	1
11031	2378-TCDF	51207-31-9	0.0410	JQ	0.0395	1.14	1
11031	12378-PeCDF	57117-41-6	0.0981	JQ	0.0230	5.69	1
11031	23478-PeCDF	57117-31-4	0.126	J	0.0224	5.69	1
11031	123478-HxCDF	70648-26-9	0.0847	JBQ	0.0267	5.69	1
11031	123678-HxCDF	57117-44-9	0.0847	JBQ	0.0233	5.69	1
11031	123789-HxCDF	72918-21-9	0.0444	JBQ	0.0270	5.69	1
11031	234678-HxCDF	60851-34-5	0.104	JBQ	0.0246	5.69	1
11031	1234678-HpCDF	67562-39-4	0.364	JB	0.0212	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0822	JBQ	0.0305	5.69	1
11031	OCDF	39001-02-0	0.283	JB	0.0630	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182721
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX038-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SB-4.0-5.0

LLI Sample # SW 6182721
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:15

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX038-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 10:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11026162401A	01/26/2011 18:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182722
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX038-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182722
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX038-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0333	U	0.0333	1.12	1
11031	12378-PeCDD	40321-76-4	0.0330	U	0.0330	5.61	1
11031	123478-HxCDD	39227-28-6	0.0249	U	0.0249	5.61	1
11031	123678-HxCDD	57653-85-7	0.0255	U	0.0255	5.61	1
11031	123789-HxCDD	19408-74-3	0.0263	JQ	0.0244	5.61	1
11031	1234678-HpCDD	35822-46-9	0.189	JB	0.0368	5.61	1
11031	OCDD	3268-87-9	0.706	JB	0.0443	11.2	1
11031	2378-TCDF	51207-31-9	0.0341	U	0.0341	1.12	1
11031	12378-PeCDF	57117-41-6	0.0420	JQ	0.0182	5.61	1
11031	23478-PeCDF	57117-31-4	0.0742	JQ	0.0180	5.61	1
11031	123478-HxCDF	70648-26-9	0.0638	JB	0.0228	5.61	1
11031	123678-HxCDF	57117-44-9	0.0427	JBQ	0.0182	5.61	1
11031	123789-HxCDF	72918-21-9	0.0245	JB	0.0208	5.61	1
11031	234678-HxCDF	60851-34-5	0.0787	JBQ	0.0189	5.61	1
11031	1234678-HpCDF	67562-39-4	0.319	JB	0.0172	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0381	JB	0.0220	5.61	1
11031	OCDF	39001-02-0	0.288	JBQ	0.0494	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182722
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX038-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA5B-SB-4.0-5.0

LLI Sample # SW 6182722
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:00

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX038-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 11:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182723
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX038-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182723
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX038-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0473	U	0.0473	1.15	1
11031	12378-PeCDD	40321-76-4	0.0332	JQ	0.0309	5.77	1
11031	123478-HxCDD	39227-28-6	0.0249	U	0.0249	5.77	1
11031	123678-HxCDD	57653-85-7	0.0262	U	0.0262	5.77	1
11031	123789-HxCDD	19408-74-3	0.0340	JQ	0.0246	5.77	1
11031	1234678-HpCDD	35822-46-9	0.207	JB	0.0368	5.77	1
11031	OCDD	3268-87-9	0.897	JBQ	0.0397	11.5	1
11031	2378-TCDF	51207-31-9	0.0382	U	0.0382	1.15	1
11031	12378-PeCDF	57117-41-6	0.0192	U	0.0192	5.77	1
11031	23478-PeCDF	57117-31-4	0.0469	J	0.0185	5.77	1
11031	123478-HxCDF	70648-26-9	0.0411	JBQ	0.0155	5.77	1
11031	123678-HxCDF	57117-44-9	0.0197	JBQ	0.0134	5.77	1
11031	123789-HxCDF	72918-21-9	0.0228	JBQ	0.0157	5.77	1
11031	234678-HxCDF	60851-34-5	0.0346	JBQ	0.0147	5.77	1
11031	1234678-HpCDF	67562-39-4	0.112	JB	0.0145	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0255	JB	0.0206	5.77	1
11031	OCDF	39001-02-0	0.189	JB	0.0521	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182723
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX038-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5B-SB-4.0-5.0

LLI Sample # SW 6182723
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 16:28

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX038-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 12:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182724
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX038-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182724
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX038-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0365	U	0.0365	1.10	1
11031	12378-PeCDD	40321-76-4	0.0308	U	0.0308	5.49	1
11031	123478-HxCDD	39227-28-6	0.0255	U	0.0255	5.49	1
11031	123678-HxCDD	57653-85-7	0.0422	JQ	0.0265	5.49	1
11031	123789-HxCDD	19408-74-3	0.0709	J	0.0247	5.49	1
11031	1234678-HpCDD	35822-46-9	0.174	JB	0.0327	5.49	1
11031	OCDD	3268-87-9	0.774	JB	0.0393	11.0	1
11031	2378-TCDF	51207-31-9	0.0356	U	0.0356	1.10	1
11031	12378-PeCDF	57117-41-6	0.0169	JQ	0.0144	5.49	1
11031	23478-PeCDF	57117-31-4	0.0536	JQ	0.0147	5.49	1
11031	123478-HxCDF	70648-26-9	0.0298	JBQ	0.0154	5.49	1
11031	123678-HxCDF	57117-44-9	0.0271	JBQ	0.0136	5.49	1
11031	123789-HxCDF	72918-21-9	0.0303	JBQ	0.0155	5.49	1
11031	234678-HxCDF	60851-34-5	0.0414	JBQ	0.0143	5.49	1
11031	1234678-HpCDF	67562-39-4	0.123	JBQ	0.0137	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0260	JBQ	0.0192	5.49	1
11031	OCDF	39001-02-0	0.110	JB	0.0465	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182724
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

Submitted: 01/13/2011 09:20
Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX038-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA5B-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5B-SB-3.0-4.0

LLI Sample # SW 6182724
LLI Group # 1228868
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/11/2011 15:26

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Reported: 02/10/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX038-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11026001	02/02/2011 13:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11026001	01/26/2011 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11018162401B	01/18/2011 18:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228868
Reported: 02/10/11 at 09:44 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11018162401B	Sample number(s): 6182722-6182724								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11026162401A	Sample number(s): 6182714-6182721								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11026001	Sample number(s): 6182714-6182724								
2378-TCDD	0.0468 U	0.0468	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0442 U	0.0442	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0330 U	0.0330	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0335 U	0.0335	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0310 U	0.0310	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.231 J	0.0445	5.00	ng/kg	92		70-140		
OCDD	0.604 J	0.0380	10.0	ng/kg	91		78-144		
2378-TCDF	0.0493 U	0.0493	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0235 U	0.0235	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0240 U	0.0240	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0920 J	0.0277	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0350 J	0.0216	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0311 J	0.0260	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0717 J	0.0249	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.285 J	0.0192	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0343 J	0.0273	5.00	ng/kg	92		78-138		
OCDF	0.323 J	0.0569	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11018162401B	Sample number(s): 6182722-6182724					BKG: P182711			
28a Moisture Content by 160.3						13.4	13.8	3	20
Batch number: 11026162401A	Sample number(s): 6182714-6182721					BKG: P182709			
28a Moisture Content by 160.3						12.2	12.3	0	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228868
Reported: 02/10/11 at 09:44 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11026001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6182714	76	79	57	70	75	79
6182715	74	82	58	72	77	81
6182716	77	82	65	79	78	87
6182717	70	72	62	76	74	77
6182718	78	86	70	76	82	88
6182719	77	84	65	77	79	82
6182720	85	97	77	92	92	95
6182721	73	81	72	81	77	79
6182722	73	82	66	81	80	86
6182723	69	77	72	82	75	82
6182724	72	82	75	83	79	87
Blank	76	76	69	85	75	83
OPR	62	71	58	69	67	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6182714	84	78	72	87	89	78
6182715	74	73	60	88	84	76
6182716	84	87	82	88	84	79
6182717	81	77	77	83	71	74
6182718	77	80	68	93	88	78
6182719	80	81	73	87	86	78
6182720	102	91	81	102	98	90
6182721	91	79	68	90	84	79
6182722	87	83	77	90	85	79
6182723	88	77	73	89	81	79
6182724	93	81	73	89	85	82
Blank	93	81	81	91	79	80
OPR	76	71	68	78	74	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6182714	78	80	88	84	73	82
6182715	79	80	87	82	74	84
6182716	82	83	90	89	77	84
6182717	77	77	82	85	69	78
6182718	79	82	85	82	83	88
6182719	80	80	85	81	79	86
6182720	94	95	100	97	88	101
6182721	79	79	86	81	74	84
6182722	80	83	89	86	75	85
6182723	76	79	84	83	69	81
6182724	81	83	89	85	74	88
Blank	81	84	91	93	71	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1228868
Reported: 02/10/11 at 09:44 PM

Surrogate Quality Control

OPR	71	71	77	75	64	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cyp# 13255685 sample# 6152714-24

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	*VOCs/EPA 8260B	*1,4-Dioxane EPA 8260SIM	**TPH-GRO EPA 8015B	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-099-SA5B-SB-4.0-5.0	01.11.1	1026	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-099-SA5B-SB-4.5	01.11.1	1022	SOIL	NONE	5 ENCORES											X	X	X											
SL-100-SA5B-SB-4.0-5.0	01.11.1	0922	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-100-SA5B-SB-4.5	01.11.1	0918	SOIL	NONE	5 ENCORES											X	X	X											
SL-087-SA5B-SB-3.0-4.0	01.11.1	0908	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-087-SA5B-SB-3.5	01.11.1	0904	SOIL	NONE	5 ENCORES											X	X	X											
SL-085-SA5B-SB-3.0-4.0	01.11.1	1135	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-085-SA5B-SB-3.5	01.11.1	1130	SOIL	NONE	5 ENCORES											X	X	X											
SL-088-SA5B-SB-3.0-4.0	01.11.1	1028	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	
SL-088-SA5B-SB-3.5	01.11.1	1024	SOIL	NONE	5 ENCORES											X	X	X											
SL-089-SA5B-SB-4.0-5.0	01.11.1	1404	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-089-SA5B-SB-4.5	01.11.1	1400	SOIL	NONE	5 ENCORES											X	X	X											
SL-090-SA5B-SB-2.5-3.5	01.11.1	1305	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-090-SA5B-SB-3.0	01.11.1	1300	SOIL	NONE	5 ENCORES											X	X	X											
SL-091-SA5B-SB-4.0-5.0	01.11.1	1515	SOIL	NONE	4 16 oz. jars	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	
SL-091-SA5B-SB-4.5	01.11.1	1511	SOIL	NONE	5 ENCORES											X	X	X											
SL-086-SA5B-SB-4.0-5.0	01.11.1	1600	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-086-SA5B-SB-4.5	01.11.1	1555	SOIL	NONE	4 ENCORES											X	X												
SL-094-SA5B-SB-4.0-5.0	01.11.1	1628	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-094-SA5B-SB-4.5	01.11.1	1624	SOIL	NONE	4 ENCORES											X	X												
SL-093-SA5B-SB-3.0-4.0	01.11.1	1526	SOIL	NONE	2 16 oz. jars	X	X	X	X	X	X	X																	
SL-093-SA5B-SB-3.5	01.11.1	1522	SOIL	NONE	4 ENCORES											X	X												
TB-011111	01.11.1	0800	WATER	HCl	4-40 mL VOA VIALS											X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	1/11/2011, 16:30	920	1/13/11
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8895 1432 2875, ...2887	

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 2

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

March 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/03/2011
Group Number: 1231548
SDG: DX046
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP22-SA5B-QC-013111 Soil	6197630
SL-175-SA5B-SB-4.0-5.0 Soil	6197631
SL-176-SA5B-SB-4.0-5.0 Soil	6197632
SL-177-SA5B-SB-4.0-5.0 Soil	6197633
SL-195-SA5B-SB-4.0-5.0 Soil	6197634
SL-195-SA5B-SB-4.0-5.0MS Soil	6197635
SL-195-SA5B-SB-4.0-5.0MSD Soil	6197636
SL-197-SA5B-SB-4.0-5.0 Soil	6197637
SL-198-SA5B-SB-4.0-5.0 Soil	6197638
SL-199-SA5B-SB-4.0-5.0 Soil	6197639
SL-200-SA5B-SB-4.0-5.0 Soil	6197640

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Charles J. Neslund
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197630
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP22 SDG#: DX046-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197630
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP22 SDG#: DX046-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	U	0.0344	1.14	1
11031	12378-PeCDD	40321-76-4	0.0288	U	0.0288	5.69	1
11031	123478-HxCDD	39227-28-6	0.0237	U	0.0237	5.69	1
11031	123678-HxCDD	57653-85-7	0.0781	JBQ	0.0244	5.69	1
11031	123789-HxCDD	19408-74-3	0.145	JB	0.0222	5.69	1
11031	1234678-HpCDD	35822-46-9	0.229	JBQ	0.0409	5.69	1
11031	OCDD	3268-87-9	0.545	JBQ	0.0360	11.4	1
11031	2378-TCDF	51207-31-9	0.0325	U	0.0325	1.14	1
11031	12378-PeCDF	57117-41-6	0.0147	U	0.0147	5.69	1
11031	23478-PeCDF	57117-31-4	0.0312	JBQ	0.0167	5.69	1
11031	123478-HxCDF	70648-26-9	0.0278	JB	0.0172	5.69	1
11031	123678-HxCDF	57117-44-9	0.0190	JBQ	0.0122	5.69	1
11031	123789-HxCDF	72918-21-9	0.0783	JBQ	0.0190	5.69	1
11031	234678-HxCDF	60851-34-5	0.0159	JBQ	0.0142	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0468	JB	0.0117	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0315	U	0.0315	5.69	1
11031	OCDF	39001-02-0	0.123	JBQ	0.0981	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	33	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197630
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP22 SDG#: DX046-12FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP22-SA5B-QC-013111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP22-SA5B-QC-013111

LLI Sample # SW 6197630
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:36

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP22 SDG#: DX046-12FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 17:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197631
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS175 SDG#: DX046-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197631
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS175 SDG#: DX046-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0404 JBQ	0.0260	1.14	1
11031	12378-PeCDD	40321-76-4	0.0462 JBQ	0.0254	5.72	1
11031	123478-HxCDD	39227-28-6	0.0599 JBQ	0.0354	5.72	1
11031	123678-HxCDD	57653-85-7	0.227 JB	0.0365	5.72	1
11031	123789-HxCDD	19408-74-3	0.195 JB	0.0334	5.72	1
11031	1234678-HpCDD	35822-46-9	6.17 B	0.0565	5.72	1
11031	OCDD	3268-87-9	57.5 B	0.0452	11.4	1
11031	2378-TCDF	51207-31-9	0.0275 U	0.0275	1.14	1
11031	12378-PeCDF	57117-41-6	0.0457 JB	0.0152	5.72	1
11031	23478-PeCDF	57117-31-4	0.102 JBQ	0.0183	5.72	1
11031	123478-HxCDF	70648-26-9	0.216 JBQ	0.0257	5.72	1
11031	123678-HxCDF	57117-44-9	0.0374 JB	0.0190	5.72	1
11031	123789-HxCDF	72918-21-9	0.0590 JBQ	0.0315	5.72	1
11031	234678-HxCDF	60851-34-5	0.0400 JBQ	0.0247	5.72	1
11031	1234678-HpCDF	67562-39-4	0.200 JB	0.0146	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0409 JBQ	0.0382	5.72	1
11031	OCDF	39001-02-0	0.531 JBQ	0.0805	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197631
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS175 SDG#: DX046-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5B-SB-4.0-5.0

LLI Sample # SW 6197631
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 16:06

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS175 SDG#: DX046-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 18:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197632
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS176 SDG#: DX046-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197632
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS176 SDG#: DX046-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0324	U	0.0324	1.16	1
11031	12378-PeCDD	40321-76-4	0.0251	U	0.0251	5.78	1
11031	123478-HxCDD	39227-28-6	0.0319	U	0.0319	5.78	1
11031	123678-HxCDD	57653-85-7	0.0833	JBQ	0.0312	5.78	1
11031	123789-HxCDD	19408-74-3	0.0836	JB	0.0321	5.78	1
11031	1234678-HpCDD	35822-46-9	1.18	JBQ	0.0540	5.78	1
11031	OCDD	3268-87-9	9.01	JB	0.0364	11.6	1
11031	2378-TCDF	51207-31-9	0.0440	U	0.0440	1.16	1
11031	12378-PeCDF	57117-41-6	0.0729	JBQ	0.0179	5.78	1
11031	23478-PeCDF	57117-31-4	0.132	JB	0.0214	5.78	1
11031	123478-HxCDF	70648-26-9	0.0808	JBQ	0.0199	5.78	1
11031	123678-HxCDF	57117-44-9	0.0330	JBQ	0.0138	5.78	1
11031	123789-HxCDF	72918-21-9	0.0438	JBQ	0.0228	5.78	1
11031	234678-HxCDF	60851-34-5	0.0438	JBQ	0.0169	5.78	1
11031	1234678-HpCDF	67562-39-4	0.154	JB	0.0111	5.78	1
11031	1234789-HpCDF	55673-89-7	0.0379	JBQ	0.0333	5.78	1
11031	OCDF	39001-02-0	0.351	JBQ	0.0773	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197632
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS176 SDG#: DX046-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-176-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-176-SA5B-SB-4.0-5.0

LLI Sample # SW 6197632
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS176 SDG#: DX046-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 19:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197633
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS177 SDG#: DX046-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197633
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS177 SDG#: DX046-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0230 U	0.0230	1.17	1
11031	12378-PeCDD	40321-76-4	0.0918 JBQ	0.0196	5.84	1
11031	123478-HxCDD	39227-28-6	0.0254 JBQ	0.0221	5.84	1
11031	123678-HxCDD	57653-85-7	0.0437 JBQ	0.0216	5.84	1
11031	123789-HxCDD	19408-74-3	0.0545 JBQ	0.0210	5.84	1
11031	1234678-HpCDD	35822-46-9	0.192 JB	0.0286	5.84	1
11031	OCDD	3268-87-9	0.654 JB	0.0287	11.7	1
11031	2378-TCDF	51207-31-9	0.0255 U	0.0255	1.17	1
11031	12378-PeCDF	57117-41-6	0.0874 JBQ	0.0117	5.84	1
11031	23478-PeCDF	57117-31-4	0.0948 JB	0.0134	5.84	1
11031	123478-HxCDF	70648-26-9	0.0668 JB	0.0124	5.84	1
11031	123678-HxCDF	57117-44-9	0.0470 JBQ	0.00841	5.84	1
11031	123789-HxCDF	72918-21-9	0.0576 JBQ	0.0157	5.84	1
11031	234678-HxCDF	60851-34-5	0.0317 JBQ	0.0114	5.84	1
11031	1234678-HpCDF	67562-39-4	0.0437 JB	0.00666	5.84	1
11031	1234789-HpCDF	55673-89-7	0.0266 JB	0.0180	5.84	1
11031	OCDF	39001-02-0	0.232 JBQ	0.0665	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197633
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS177 SDG#: DX046-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-177-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA5B-SB-4.0-5.0

LLI Sample # SW 6197633
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS177 SDG#: DX046-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 20:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197634
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197634
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	U	0.0244	1.15	1
11031	12378-PeCDD	40321-76-4	0.0769	JB	0.0184	5.76	1
11031	123478-HxCDD	39227-28-6	0.0224	U	0.0224	5.76	1
11031	123678-HxCDD	57653-85-7	0.128	JBQ	0.0232	5.76	1
11031	123789-HxCDD	19408-74-3	0.198	JB	0.0225	5.76	1
11031	1234678-HpCDD	35822-46-9	0.172	JB	0.0267	5.76	1
11031	OCDD	3268-87-9	0.758	JB	0.0238	11.5	1
11031	2378-TCDF	51207-31-9	0.0221	U	0.0221	1.15	1
11031	12378-PeCDF	57117-41-6	0.132	JBQ	0.00979	5.76	1
11031	23478-PeCDF	57117-31-4	0.0997	JBQ	0.0121	5.76	1
11031	123478-HxCDF	70648-26-9	0.0447	JB	0.0142	5.76	1
11031	123678-HxCDF	57117-44-9	0.0487	JB	0.0101	5.76	1
11031	123789-HxCDF	72918-21-9	0.145	JBQ	0.0180	5.76	1
11031	234678-HxCDF	60851-34-5	0.0397	JB	0.0135	5.76	1
11031	1234678-HpCDF	67562-39-4	0.0567	JBQ	0.00749	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0325	JBQ	0.0184	5.76	1
11031	OCDF	39001-02-0	0.220	JBQ	0.0584	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197634
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197634
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/16/2011 21:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197635
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197635
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8	B	0.0394	1.15	1
11031	12378-PeCDD	40321-76-4	113	B	0.0422	5.76	1
11031	123478-HxCDD	39227-28-6	110	B	0.0786	5.76	1
11031	123678-HxCDD	57653-85-7	112	B	0.0778	5.76	1
11031	123789-HxCDD	19408-74-3	112	B	0.0698	5.76	1
11031	1234678-HpCDD	35822-46-9	114	B	0.0815	5.76	1
11031	OCDD	3268-87-9	221	B	0.0684	11.5	1
11031	2378-TCDF	51207-31-9	24.8	B	0.0423	1.15	1
11031	12378-PeCDF	57117-41-6	111	B	0.0280	5.76	1
11031	23478-PeCDF	57117-31-4	109	B	0.0321	5.76	1
11031	123478-HxCDF	70648-26-9	115	B	0.0930	5.76	1
11031	123678-HxCDF	57117-44-9	112	B	0.0599	5.76	1
11031	123789-HxCDF	72918-21-9	112	B	0.0857	5.76	1
11031	234678-HxCDF	60851-34-5	114	B	0.0659	5.76	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0539	5.76	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0873	5.76	1
11031	OCDF	39001-02-0	227	B	0.0946	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	102	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	104	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197635
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197635
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 01:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197636
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197636
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8	B	0.0336	1.15	1
11031	12378-PeCDD	40321-76-4	119	B	0.0356	5.76	1
11031	123478-HxCDD	39227-28-6	118	B	0.0706	5.76	1
11031	123678-HxCDD	57653-85-7	117	B	0.0711	5.76	1
11031	123789-HxCDD	19408-74-3	115	B	0.0675	5.76	1
11031	1234678-HpCDD	35822-46-9	114	B	0.0586	5.76	1
11031	OCDD	3268-87-9	229	B	0.0548	11.5	1
11031	2378-TCDF	51207-31-9	25.1	B	0.0531	1.15	1
11031	12378-PeCDF	57117-41-6	118	B	0.0274	5.76	1
11031	23478-PeCDF	57117-31-4	117	B	0.0326	5.76	1
11031	123478-HxCDF	70648-26-9	115	B	0.0684	5.76	1
11031	123678-HxCDF	57117-44-9	111	B	0.0468	5.76	1
11031	123789-HxCDF	72918-21-9	113	B	0.0750	5.76	1
11031	234678-HxCDF	60851-34-5	114	B	0.0553	5.76	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0418	5.76	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0736	5.76	1
11031	OCDF	39001-02-0	227	B	0.0673	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	99	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197636
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-195-SA5B-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-195-SA5B-SB-4.0-5.0

LLI Sample # SW 6197636
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 09:30

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS195 SDG#: DX046-16MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 02:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197637
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS197 SDG#: DX046-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-197-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197637
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS197 SDG#: DX046-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0625	JBQ	0.0338	1.12	1
11031	12378-PeCDD	40321-76-4	0.317	JBQ	0.0287	5.60	1
11031	123478-HxCDD	39227-28-6	0.251	JB	0.0337	5.60	1
11031	123678-HxCDD	57653-85-7	0.251	JB	0.0343	5.60	1
11031	123789-HxCDD	19408-74-3	0.362	JBQ	0.0330	5.60	1
11031	1234678-HpCDD	35822-46-9	0.519	JB	0.0423	5.60	1
11031	OCDD	3268-87-9	1.35	JB	0.0422	11.2	1
11031	2378-TCDF	51207-31-9	0.0616	JB	0.0355	1.12	1
11031	12378-PeCDF	57117-41-6	0.289	JB	0.0157	5.60	1
11031	23478-PeCDF	57117-31-4	0.340	JB	0.0194	5.60	1
11031	123478-HxCDF	70648-26-9	0.252	JBQ	0.0349	5.60	1
11031	123678-HxCDF	57117-44-9	0.240	JB	0.0216	5.60	1
11031	123789-HxCDF	72918-21-9	0.496	JB	0.0471	5.60	1
11031	234678-HxCDF	60851-34-5	0.307	JB	0.0295	5.60	1
11031	1234678-HpCDF	67562-39-4	0.274	JB	0.0147	5.60	1
11031	1234789-HpCDF	55673-89-7	0.485	JB	0.0459	5.60	1
11031	OCDF	39001-02-0	1.21	JB	0.116	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	109	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	108	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	116	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-197-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197637
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS197 SDG#: DX046-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5B-SB-4.0-5.0

LLI Sample # SW 6197637
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 14:51

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS197 SDG#: DX046-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 03:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197638
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS198 SDG#: DX046-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197638
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS198 SDG#: DX046-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0256	U	0.0256	1.13	1
11031	12378-PeCDD	40321-76-4	0.0793	JBQ	0.0246	5.64	1
11031	123478-HxCDD	39227-28-6	0.0258	JBQ	0.0232	5.64	1
11031	123678-HxCDD	57653-85-7	0.0436	JBQ	0.0240	5.64	1
11031	123789-HxCDD	19408-74-3	0.0663	JBQ	0.0227	5.64	1
11031	1234678-HpCDD	35822-46-9	0.261	JBQ	0.0388	5.64	1
11031	OCDD	3268-87-9	0.581	JB	0.0310	11.3	1
11031	2378-TCDF	51207-31-9	0.0240	U	0.0240	1.13	1
11031	12378-PeCDF	57117-41-6	0.0725	JBQ	0.0118	5.64	1
11031	23478-PeCDF	57117-31-4	0.0720	JB	0.0140	5.64	1
11031	123478-HxCDF	70648-26-9	0.0576	JBQ	0.0171	5.64	1
11031	123678-HxCDF	57117-44-9	0.0509	JBQ	0.0118	5.64	1
11031	123789-HxCDF	72918-21-9	0.0972	JBQ	0.0210	5.64	1
11031	234678-HxCDF	60851-34-5	0.0520	JBQ	0.0154	5.64	1
11031	1234678-HpCDF	67562-39-4	0.0863	JB	0.0112	5.64	1
11031	1234789-HpCDF	55673-89-7	0.111	JBQ	0.0307	5.64	1
11031	OCDF	39001-02-0	0.303	JBQ	0.0736	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197638
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS198 SDG#: DX046-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-198-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-198-SA5B-SB-4.0-5.0

LLI Sample # SW 6197638
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 15:49

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS198 SDG#: DX046-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 04:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197639
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS199 SDG#: DX046-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197639
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS199 SDG#: DX046-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0239	U	0.0239	1.15	1
11031	12378-PeCDD	40321-76-4	0.0211	U	0.0211	5.77	1
11031	123478-HxCDD	39227-28-6	0.0397	JBQ	0.0180	5.77	1
11031	123678-HxCDD	57653-85-7	0.0256	JBQ	0.0188	5.77	1
11031	123789-HxCDD	19408-74-3	0.0524	JBQ	0.0180	5.77	1
11031	1234678-HpCDD	35822-46-9	0.238	JBQ	0.0331	5.77	1
11031	OCDD	3268-87-9	0.892	JB	0.0333	11.5	1
11031	2378-TCDF	51207-31-9	0.0227	U	0.0227	1.15	1
11031	12378-PeCDF	57117-41-6	0.0222	JBQ	0.0110	5.77	1
11031	23478-PeCDF	57117-31-4	0.0519	JBQ	0.0123	5.77	1
11031	123478-HxCDF	70648-26-9	0.0506	JBQ	0.0140	5.77	1
11031	123678-HxCDF	57117-44-9	0.0368	JBQ	0.00980	5.77	1
11031	123789-HxCDF	72918-21-9	0.0524	JBQ	0.0181	5.77	1
11031	234678-HxCDF	60851-34-5	0.0348	JBQ	0.0136	5.77	1
11031	1234678-HpCDF	67562-39-4	0.0699	JB	0.00854	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0923	JBQ	0.0197	5.77	1
11031	OCDF	39001-02-0	0.184	JBQ	0.0579	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197639
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS199 SDG#: DX046-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-199-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-199-SA5B-SB-4.0-5.0

LLI Sample # SW 6197639
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 12:43

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS199 SDG#: DX046-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 05:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197640
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS200 SDG#: DX046-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	28a Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197640
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS200 SDG#: DX046-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0503	U	0.0503	1.15	1
11031	12378-PeCDD	40321-76-4	0.0397	U	0.0397	5.76	1
11031	123478-HxCDD	39227-28-6	0.0364	U	0.0364	5.76	1
11031	123678-HxCDD	57653-85-7	0.0678	JBQ	0.0373	5.76	1
11031	123789-HxCDD	19408-74-3	0.120	JB	0.0365	5.76	1
11031	1234678-HpCDD	35822-46-9	0.189	JBQ	0.0578	5.76	1
11031	OCDD	3268-87-9	0.553	JBQ	0.0551	11.5	1
11031	2378-TCDF	51207-31-9	0.0468	U	0.0468	1.15	1
11031	12378-PeCDF	57117-41-6	0.0291	JBQ	0.0182	5.76	1
11031	23478-PeCDF	57117-31-4	0.0619	JBQ	0.0220	5.76	1
11031	123478-HxCDF	70648-26-9	0.0544	JBQ	0.0256	5.76	1
11031	123678-HxCDF	57117-44-9	0.0320	JB	0.0173	5.76	1
11031	123789-HxCDF	72918-21-9	0.108	JB	0.0380	5.76	1
11031	234678-HxCDF	60851-34-5	0.0608	JB	0.0235	5.76	1
11031	1234678-HpCDF	67562-39-4	0.0664	JBQ	0.0159	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0452	U	0.0452	5.76	1
11031	OCDF	39001-02-0	0.180	JBQ	0.121	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	55	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	50	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	49	28 - 136
13C12-123789-HxCDF	38	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	32	26 - 138
13C12-OCDF	30	17 - 157
13C12-1278-TCDD (CRS)	64	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197640
LLI Group # 1231548
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/31/2011 11:04

Submitted: 02/03/2011 09:45
Reported: 03/03/2011 17:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS200 SDG#: DX046-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-200-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5B-SB-4.0-5.0

LLI Sample # SW 6197640
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DS200 SDG#: DX046-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11041001	02/17/2011 06:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11041001	02/10/2011 10:50	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	11041162401A	02/10/2011 17:51	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231548
Reported: 03/03/11 at 05:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11041162401A	Sample number(s): 6197630-6197640								
28a Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11041001	Sample number(s): 6197630-6197640								
2378-TCDD	0.0355 J	0.0281	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0443 J	0.0280	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0358 J	0.0202	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0308 J	0.0202	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0286 J	0.0187	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.174 J	0.0332	5.00	ng/kg	98		70-140		
OCDD	0.352 J	0.0266	10.0	ng/kg	95		78-144		
2378-TCDF	0.0315 J	0.0271	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0365 J	0.0131	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0628 J	0.0141	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0430 J	0.0142	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0232 J	0.0108	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0808 J	0.0142	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0444 J	0.0120	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0900 J	0.0106	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0688 J	0.0176	5.00	ng/kg	97		78-138		
OCDF	0.294 J	0.0459	10.0	ng/kg	99		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11041162401A	Sample number(s): 6197630-6197640 BKG: P197581								
28a Moisture Content by 160.3						13.2	12.4	6	20
Batch number: 11041001	Sample number(s): 6197630-6197640 UNSPK: 6197634								
2378-TCDD	99	99	67-158	0	25				
12378-PeCDD	98	103	70-142	5	25				
123478-HxCDD	96	102	70-164	7	25				
123678-HxCDD	97	102	76-134	5	25				
123789-HxCDD	97	100	64-162	3	25				
1234678-HpCDD	98	99	70-140	1	25				
OCDD	96	99	78-144	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231548
Reported: 03/03/11 at 05:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	108	109	75-158	1	25				
12378-PeCDF	96	102	80-134	6	25				
23478-PeCDF	94	101	68-160	7	25				
123478-HxCDF	100	100	72-134	0	25				
123678-HxCDF	97	96	84-130	1	25				
123789-HxCDF	97	98	78-130	1	25				
234678-HxCDF	99	99	70-156	0	25				
1234678-HpCDF	96	96	82-122	1	25				
1234789-HpCDF	98	97	78-138	1	25				
OCDF	98	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11041001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6197630	59	66	57	76	66	57
6197631	70	72	57	74	58	53
6197632	61	63	55	77	64	53
6197633	73	73	65	91	69	57
6197634	75	77	72	96	75	61
6197635	93	84	65	97	87	82
6197636	87	83	71	99	84	75
6197637	78	80	62	93	68	50
6197638	75	70	62	85	69	56
6197639	75	75	67	90	68	59
6197640	50	53	46	65	49	38
Blank	70	74	67	87	79	78
MS	93	84	65	97	87	82
MSD	87	83	71	99	84	75
OPR	70	68	66	87	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6197630	91	42	33	77	80	66
6197631	90	45	38	85	87	71
6197632	104	45	37	83	80	71
6197633	104	47	42	93	94	75
6197634	101	49	38	87	95	80
6197635	100	75	71	104	92	91
6197636	98	71	71	91	98	87
6197637	116	47	40	92	109	76
6197638	101	44	41	91	89	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1231548
Reported: 03/03/11 at 05:56 PM

Surrogate Quality Control

6197639	101	55	49	87	89	80
6197640	72	32	30	64	72	54
Blank	92	67	72	88	78	84
MS	100	75	71	104	92	91
MSD	98	71	71	91	98	87
OPR	90	54	56	89	74	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6197630	68	74	69	65	60	81
6197631	70	76	72	67	67	90
6197632	73	71	70	66	58	82
6197633	76	78	77	76	69	90
6197634	84	84	79	74	71	100
6197635	94	102	95	88	89	100
6197636	88	91	86	87	84	101
6197637	78	80	78	75	69	108
6197638	78	81	74	67	71	88
6197639	78	79	76	73	71	88
6197640	55	56	50	48	49	67
Blank	85	87	85	90	67	84
MS	94	102	95	88	89	100
MSD	88	91	86	87	84	101
OPR	77	79	81	79	66	85
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1231548 6197630-40

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**pH EPA 9045C	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetraphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
DUP21-SA5B-QC-013111	1.31.2011	0949	SOIL	NONE	5-Encores									X	X	X											FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															FIELD DUPLICATE
DUP22-SA5B-QC-013111	1.31.2011	0936	SOIL	NONE	4-Encores									X	X	X											FIELD DUPLICATE
SL-175-SA5B-SB-4.0-5.0	1.31.2011	1606	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-175-SA5B-SB-4.5	1.31.2011	1602	SOIL	NONE	4-Encores									X	X												
SL-176-SA5B-SB-4.0-5.0	1.31.2011	1504	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-176-SA5B-SB-4.5	1.31.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-177-SA5B-SB-4.0-5.0	1.31.2011	1404	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-177-SA5B-SB-4.5	1.31.2011	1400	SOIL	NONE	4-Encores									X	X												
SL-182-SA5B-SB-4.0-5.0MS	1.31.2011	0937	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	MS/MSD **
SL-182-SA5B-SB-4.5MS	1.31.2011	0937	SOIL	NONE	18 Encores									X	X	X											MS/MSD **
SL-195-SA5B-SB-4.0-5.0MS	1.31.2011	0930	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X															MS/MSD
SL-195-SA5B-SB-4.5MS	1.31.2011	0927	SOIL	NONE	12-Encores									X	X												MS/MSD
SL-197-SA5B-SB-4.0-5.0	1.31.2011	1451	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-197-SA5B-SB-4.5	1.31.2011	1448	SOIL	NONE	4-Encores									X	X												
SL-198-SA5B-SB-4.0-5.0	1.31.2011	1549	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-198-SA5B-SB-4.5	1.31.2011	1544	SOIL	NONE	4-Encores									X	X												
SL-199-SA5B-SB-4.0-5.0	1.31.2011	1243	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-199-SA5B-SB-4.5	1.31.2011	1240	SOIL	NONE	4-Encores									X	X												
SL-200-SA5B-SB-4.0-5.0	1.31.2011	1104	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-200-SA5B-SB-4.5	1.31.2011	1100	SOIL	NONE	4-Encores									X	X												
SL-204-SA5B-SB-4.0-5.0	1.31.2011	1238	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
SL-204-SA5B-SB-4.5	1.31.2011	1419	SOIL	NONE	5-Encores									X	X	X											
TB-013111	1.31.2011	1230	WATER	HCl	4-40 mL VOA VIALS									X	X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 1/31/2011 / 17:00

Received for Laboratory by: (Signature) — 2/3/11 0945

Received by: (Signature) — Date/Time

Airbill No.(s): 8695 1431 9940, ...9950, ...9961

Laboratory: Lancaster Laboratories, Inc.

No. of coolers = 3

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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